

AI IN HIGHER EDUCATION

VIRGINIA TECH

Comprehensive AI Governance & Activity Inventory

A Public-Source Institutional Reference

What the University has said and done publicly about artificial intelligence

Evidence snapshot: September 26, 2026

Version 5.1

DOI: [10.5281/zenodo.19670612](https://doi.org/10.5281/zenodo.19670612)

Tommy Turner

Williamsburg and Christiansburg, Virginia

<https://orcid.org/0009-0005-7422-9881>

tommy@gofast.pro | [linkedin.com/in/tommyturner/](https://www.linkedin.com/in/tommyturner/)

© 2026 Tommy Turner

Table of Contents

Introduction.....	9
What This Document Is.....	9
How It Was Built.....	9
About the Author.....	9
PART I — Institutional Overview.....	10
I. INSTITUTIONAL AI GOVERNANCE ARCHITECTURE.....	11
II. POLICY INFRASTRUCTURE & INSTITUTIONAL ALIGNMENT.....	14
III. TEACHING & LEARNING POSTURE.....	16
IV. TOOL ECOSYSTEM & PROCUREMENT GOVERNANCE.....	19
V. ACADEMIC INTEGRITY INTEGRATION.....	22
VI. RESEARCH GOVERNANCE & ETHICS.....	23
VII. LIBRARY & INFORMATION LITERACY SIGNALS.....	24
VIII. INFRASTRUCTURE & STRATEGIC INVESTMENT SIGNALS.....	26
IX. PUBLIC STATEMENTS & EXECUTIVE SIGNALING.....	27
X. EVIDENCE ARCHIVE.....	29
PART II — Unit Dossiers.....	37
Unit 1. College of Agriculture and Life Sciences (CALS).....	38
1.1 Governance & Policy.....	38
1.2 People.....	38
1.3 Teaching & Curriculum.....	40
1.4 Tools & Deployed AI Platforms.....	40
1.5 Research & Scholarship.....	42
1.6 Events & Public Engagement.....	43
Gaps and Observations.....	44
Sources.....	45
Unit 2. College of Science and Academy of Data Science.....	48
2.1 Governance & Policy.....	48
2.2 People.....	48
2.3 Teaching & Curriculum.....	50

2.4 Tools & Technology.....	51
2.5 Research & Scholarship.....	51
2.6 Events & Programming.....	52
Gaps and Observations.....	52
Sources.....	53
Unit 3. Pamplin College of Business.....	57
3.1 Governance & Policy.....	57
3.2 People.....	58
3.3 Teaching & Curriculum.....	59
3.4 Tools & Technology.....	61
3.5 Research & Scholarship.....	61
3.6 Events & Programming.....	62
Gaps and Observations.....	63
Sources.....	63
Unit 4. College of Engineering + Sanghani Center for Artificial Intelligence and Data Analytics.....	67
4.1 Governance & Policy.....	67
4.2 People.....	68
4.3 Teaching & Curriculum.....	69
4.4 Tools & Technology.....	70
4.5 Research & Scholarship.....	70
4.6 Events & Programming.....	72
Gaps and Observations.....	72
Sources.....	73
Unit 5. College of Liberal Arts and Human Sciences (CLAHS) + School of Education.....	77
5.1 Governance & Policy.....	77
5.2 People.....	78
5.3 Teaching & Curriculum.....	81
5.4 Tools & Technology.....	82
5.5 Research & Scholarship.....	82

5.6 Events & Public Engagement.....	84
Gaps and Observations.....	84
Sources.....	85
Unit 6. College of Natural Resources and Environment (CNRE).....	91
6.1 Governance & Policy.....	91
6.2 People.....	91
6.3 Teaching & Curriculum.....	92
6.4 Tools & Technology.....	93
6.5 Research & Scholarship.....	93
6.6 Events & Programming.....	93
Gaps and Observations.....	93
Sources.....	94
Unit 7. Virginia Cooperative Extension (VCE).....	96
7.1 Governance & Policy.....	96
7.2 People.....	96
7.3 Teaching & Curriculum.....	97
7.4 Tools & Technology.....	97
7.5 Research & Scholarship.....	97
7.6 Events & Programming.....	97
Gaps and Observations.....	97
Sources.....	98
Units 8/15. Virginia Tech Carilion School of Medicine (VTC SOM) + Fralin Biomedical Research Institute (FBRI).....	99
8/15.1 Governance & Policy.....	99
8/15.2 People.....	100
8/15.3 Teaching & Curriculum.....	102
8/15.4 Tools & Technology.....	102
8/15.5 Research & Scholarship.....	103
8/15.6 Events & Public Engagement.....	104
Gaps and Observations.....	105
Sources.....	106

Unit 9. College of Architecture, Arts, and Design (AAD).....	111
9.1 Governance & Policy.....	111
9.2 People.....	111
9.3 Teaching & Curriculum.....	112
9.4 Tools & Technology.....	113
9.5 Research & Scholarship.....	113
9.6 Events & Public Engagement.....	114
Gaps and Observations.....	114
Sources.....	115
Unit 10. Virginia-Maryland College of Veterinary Medicine (VMCVM)....	117
10.1 Governance & Policy.....	117
10.2 People.....	117
10.3 Teaching & Curriculum.....	118
10.4 Tools & Technology.....	118
10.5 Research & Scholarship.....	119
10.6 Events & Programming.....	119
Gaps and Observations.....	120
Sources.....	120
Unit 11. University Libraries.....	122
11.1 Governance & Policy.....	122
11.2 People.....	122
11.3 Teaching & Curriculum.....	123
11.4 Tools & Technology.....	123
11.5 Research & Scholarship.....	124
11.6 Events & Programming.....	124
Gaps and Observations.....	124
Sources.....	125
Unit 12. Graduate School.....	127
12.1 Governance & Policy.....	127
12.2 People.....	127
12.3 Teaching & Curriculum.....	128

12.4 Tools & Technology.....	128
12.5 Research & Scholarship.....	128
12.6 Events & Programming.....	128
Gaps and Observations.....	128
Sources.....	128
Units 13/14. Virginia Tech Transportation Institute (VTTI) + Hume Center / National Security Institute (NSI).....	129
13/14.1 Governance & Policy.....	129
13/14.2 People.....	129
13/14.3 Teaching & Curriculum.....	130
13/14.4 Tools & Technology.....	132
13/14.5 Research & Scholarship.....	133
13/14.6 Events & Programming.....	133
Gaps and Observations.....	134
Sources.....	134
Unit 16. Honors College.....	138
16.1 Governance & Policy.....	138
16.2 People.....	138
16.3 Teaching & Curriculum.....	138
16.4-16.6 Tools, Research, Events.....	138
Gaps and Observations.....	139
Sources.....	139
Unit 17. Division of Information Technology / CIO Office (including Advanced Research Computing).....	140
17.1 Governance & Policy.....	140
17.2 People.....	141
17.3 Teaching & Curriculum.....	141
17.4 Tools & Technology.....	141
17.5 Research & Scholarship.....	142
17.6 Events & Programming.....	143
Gaps and Observations.....	143

Sources.....	143
Unit 18. TLOS (Technology-enhanced Learning and Online Strategies)....	145
18.1 Governance & Policy.....	145
18.2 People.....	145
18.3 Teaching & Curriculum.....	146
18.4 Tools & Technology.....	146
18.5 Research & Scholarship.....	146
18.6 Events & Programming.....	147
Gaps and Observations.....	147
Sources.....	147
Unit 19. Center for Excellence in Teaching and Learning (CETL).....	149
19.1 Governance & Policy.....	149
19.2 People.....	149
19.3 Teaching & Curriculum.....	149
19.4 Tools & Technology.....	150
19.5 Research & Scholarship.....	150
19.6 Events & Programming.....	150
Gaps and Observations.....	150
Sources.....	151
Unit 20. Office of Research and Innovation (ORI) — SIRC, OESRC, VTIP, PRDP.....	152
20.1 Governance & Policy.....	152
20.2 People.....	153
20.3 Teaching & Curriculum.....	154
20.4 Tools & Technology.....	154
20.5 Research & Scholarship.....	154
20.6 Events & Programming.....	154
Gaps and Observations.....	155
Sources.....	155
Unit 21. Institute for Advanced Computing (IAC) and Alexandria Campus	158

21.1 Governance & Policy.....	158
21.2 People.....	158
21.3 Teaching & Curriculum.....	159
21.4 Tools & Technology.....	159
21.5 Research & Scholarship.....	159
21.6 Events & Programming.....	159
Gaps and Observations.....	160
Sources.....	160
Unit 22. Investment Institutes (ICAT, ICTAS, Fralin Life Sciences, ISCE)	162
22.1 Governance & Policy.....	162
22.2 People.....	162
22.3 Teaching & Curriculum.....	162
22.4 Tools & Technology.....	162
22.5 Research & Scholarship.....	163
22.6 Events & Programming.....	163
Gaps and Observations.....	164
Sources.....	164
Units 23–24. Student Affairs, Enrollment Management, and Administrative	
Units.....	166
23–24.1 Governance & Policy.....	166
23–24.2 People.....	167
23–24.3 Teaching & Curriculum.....	167
23–24.4 Tools & Technology.....	168
23–24.5 Research & Scholarship.....	168
23–24.6 Events & Programming.....	169
Gaps and Observations.....	169
Sources.....	169

Introduction

What This Document Is

This document is a public-source inventory of AI governance, teaching, research, and operations at Virginia Tech. It is not an audit, not a maturity assessment, and not a scorecard. It documents what the university has said and done publicly about artificial intelligence as of the evidence snapshot date.

How It Was Built

Research was conducted through web search of institutional pages, news releases, faculty profiles, grant databases, policy documents, and public filings. No FOIA requests were filed. No interviews were conducted. No internal documents were reviewed. Major claims carry a URL; claims that could not be tied to a public URL are marked as such in the text. The phrase “Not publicly documented in available sources” means absence of evidence, not evidence of absence. Units with thin dossiers may be doing significant AI work that is not public-facing. Before release, the 2026 additions were verified cold, from the cited pages back to the text, by AI agents that had not drafted them; quotations were checked mechanically against retrieved page text where the pages could be reached, and the findings were corrected in this version.

The document is organized in two parts. Part I provides an institutional overview across ten sections covering governance architecture, policy infrastructure, teaching and learning posture, the tool ecosystem, academic integrity, research governance, library and information literacy, infrastructure investment, public statements, and the evidence archive. Part II contains 21 unit dossiers—one for each college, school, institute, or administrative division with documented AI activity—using a six-part structure: Governance & Policy, People, Teaching & Curriculum, Tools & Technology, Research & Scholarship, and Events & Programming.

The evidence snapshot date is September 26, 2026. Constraint discipline: public sources only, no scoring, no ranking, no comparisons between institutions, no speculation beyond what sources state, no promotional language. Where the public record changed during 2026, the body states the earlier position and the later one with dates, because the sequence is itself part of the record. Constraint discipline: public sources only, no

scoring, no ranking, no comparisons between institutions, no speculation beyond what sources state, no promotional language.

About the Author

[Tommy Turner](#) is an independent researcher based in Williamsburg, Virginia, who conducted original institutional profiling of 53 American universities to examine how they governed generative AI and what they failed to build alongside the governance apparatus. This VT inventory is one of several companion documents produced from that research, alongside comprehensive AI governance inventories for William & Mary (DOI: [10.5281/zenodo.19696361](#)), Marymount University (DOI: [10.5281/zenodo.19701771](#)), the University of Virginia (DOI: [10.5281/zenodo.20626786](#)), and Lehigh University (DOI: [10.5281/zenodo.20629953](#)), a peer benchmark covering 23 BOV-adopted national peer institutions (DOI: [10.5281/zenodo.19672836](#)), and a public-source reference guide covering 30 Virginia four-year institutions (DOI: [10.5281/zenodo.19671839](#)).

The working paper *Governance Without Readiness: How 53 American Universities Responded to Generative AI* (DOI: [10.5281/zenodo.19647273](#)) synthesizes findings across all 53 institutions, documenting a structural gap between institutional risk management and workforce preparation. This inventory stands as an independent reference document; it is not derivative of the working paper.

Contact: tommy@gofast.pro | [linkedin.com/in/tommyturner/](https://www.linkedin.com/in/tommyturner/)

Suggested Citation

Turner, T. (2026). *Virginia Tech: Comprehensive AI Governance & Activity Inventory* (Version 5.1). Zenodo. <https://doi.org/10.5281/zenodo.19670612>

ORCID: <https://orcid.org/0009-0005-7422-9881>

How to Read This Document

Part I is the institutional layer: ten sections that describe Virginia Tech's AI governance architecture, policy corpus, teaching posture, tool ecosystem, and investment record as a single system. Part II is the unit layer: 21 dossiers spanning the colleges, the medical school and FBRI, the research institutes, and the administrative divisions, each built on the same anatomy. A dossier opens with a Key Signals panel stating the unit's AI posture in three to five sentences, moves through six numbered sections, and closes with a Sources section in which every entry carries a description line followed by its URL.

Readers with different jobs should enter at different points.

Provosts, governance staff, and faculty senates. Read Part I Sections I and II for the governance architecture, including the September 2025 Responsible and Ethical AI Framework and the AI Working Committee's establishment within IT governance, then Unit 17 (Division of IT), where the operational governance machinery lives.

CIOs and IT leadership. Read Part I Section IV for the tool ecosystem, the three-tier risk classification, and the pilot record, then Unit 17, which documents the ARC LLM Gateway, the enterprise platform decisions, and the security review pathway.

Teaching center directors and academic affairs. Read Part I Sections III and V, then Units 18 (TLOS) and 19 (CETL) for the training infrastructure, course design support, and academic integrity posture.

Library leadership. Read Part I Section VII, then Unit 11, which documents the IMLS Generative AI Incubator, the DPLA metadata project, and the prompt library.

Admissions and enrollment leaders. Read Part I Section IX for the AI essay reader deployment and its national coverage, then Units 23-24.

Researchers, journalists, and policy staff. Every claim is sourced. Part I Section X and the unit Sources sections together carry more than 600 unique URLs, frozen at the snapshot date, and are designed to be cited.

Vendors and partners. Read Part I Section IV for what is licensed and deployed, then Unit 17 for the procurement apparatus and Unit 20 for the research-tool approval pathway.

Three conventions govern the whole document. First, the evidence is frozen at the snapshot date; statements of current fact are statements as of that date. Second, where sources conflict, the document reports both versions flat, with dates, rather than resolving the discrepancy editorially. Third,

"Not publicly documented in available sources" is a finding, not a gap in the research: it marks the boundary of the public record.

PART I — Institutional Overview

Evidence snapshot: September 26, 2026

- I. Institutional AI Governance Architecture
- II. Policy Infrastructure & Institutional Alignment
- III. Teaching & Learning Posture
- IV. Tool Ecosystem & Procurement Governance
- V. Academic Integrity Integration
- VI. Research Governance & Ethics
- VII. Library & Information Literacy Signals
- VIII. Infrastructure & Strategic Investment Signals
- IX. Public Statements & Executive Signaling
- X. Evidence Archive

I. INSTITUTIONAL AI GOVERNANCE ARCHITECTURE

A. Formal Governance Framework

Virginia Tech published the Responsible and Ethical AI Framework for Virginia Tech (v1.0) in September 2025. The framework is the product of an AI Working Group co-charged by Executive Vice President and Provost Cyril Clarke and Executive Vice President and Chief Operating Officer Amy Sebring. The working group spent approximately 18 months engaging faculty, staff, and student representatives. Its methodology combined environmental scans, peer institution analyses, stakeholder interviews, community input sessions, and a spring 2025 faculty survey (n = 118). The framework was developed using an assessment instrument published in 2025 by a Digital Education Council working group of 34 universities; the instrument offers descriptive rubrics rather than statistically normed scores. No reliability or validity study of the instrument was found in the Digital Education Council materials reviewed as of the evidence snapshot date.

The working group was co-chaired by Dale Pike, Associate Vice Provost for Technology-Enhanced Learning, and David Raymond, then Associate Vice President for Security and Identity in the Division of Information Technology (now Associate Vice President and Chief Information Security Officer). Named members were drawn from the Office of the Executive Vice Provost, the Office of the Chief Operating Officer, TLOS, DoIT, the Charles Edward Via Jr. Department of Civil and Environmental Engineering, Advancement, the College of Liberal Arts and Human Sciences, Human Resources, Outreach and International Affairs, the Office of Audit Risk and Compliance, the Controller's Office, and the Undergraduate Student Senate. The membership list is published at ai.vt.edu/ai-group.html with department affiliations but not individual names for all members.

The framework rests on six building blocks: an ethical framework, a policy gap analysis, practical guidance resources, tool recommendations, a governance model, and a phased implementation roadmap. The full report PDF includes appendices covering the policy gap analysis methodology (Appendix B), ChatGPT Edu pilot results (Appendix C), and a detailed assessment. Five strategic recommendations translate the framework into action items, though implementation timelines for each recommendation have not been published outside the framework PDF.

Central AI Information Hub

The central AI information hub is maintained at ai.vt.edu by DoIT and TLOS. The site hosts the full framework report PDF, the complete AI principles document, a one-page principles summary, governance documentation, approved tool listings, pilot program status and findings reports, training resources, and news. Earlier versions of the site carried a public feedback form on the principles and a form for units to request an AI presentation; neither appears on the September 23, 2026 homepage. The site was restructured during 2026: governance content now lives at ai.vt.edu/about/governance.html, guidance at ai.vt.edu/guidance.html with subpages for principles, data risk, and resources (the resources page, dated June 10, 2026, carries a "plainspoken guide to Virginia Tech's current and future AI tools" PDF dated August 10, 2026), and tools at ai.vt.edu/tools.html with a dedicated HokieAI page. The homepage was last updated September 23, 2026.

Raymond stated in October 2025: "The input from and perspectives of our campus community are critically important to developing a framework that enables and supports responsible use of AI and ensure it can adapt to changes within the institution or in the technology itself. We will continue to leverage the expertise and opportunities we have at Virginia Tech to enhance student success and advance our goals and priorities through AI best practices." Pike stated in February 2025, in connection with the Kim/Klopfer GenAI study: "The rapidly evolving nature of generative AI means we need to be both thoughtful and adaptable in our approach."

B. Governance Committees & Structure

Operational Status

The AI Working Committee is operational. Through early 2026, ai.vt.edu carried two inconsistent statements: the homepage (updated February 25, 2026) said the committee "has been established as a standing committee within IT governance, charged by the IT Governance Executive Committee," while the governance page (last updated September 2025) said "The committee has not yet been formed." The governance page was rewritten on April 30, 2026 and states that the committee "will serve as a formal standing working committee within Virginia Tech's IT governance framework, reporting to the IT Governance Advisory Committee with delegated responsibility for AI-related issues across the university," providing "advisory stewardship over shared practices, policies, and resources that enable responsible AI adoption." The page says the committee "will establish domain-focused subgroups" in three areas: AI for

Teaching & Learning, AI for Research, and AI for Operations. It does not state that the subgroups are in operation. The page assigns day-to-day operational decisions to campus units ("Day-to-day AI implementation decisions remain with campus operational leaders") and states that the committee "advises executive leadership on high-risk AI implementations." An August 10, 2026 DoIT flyer states the committee was "Formed in late 2025" and calls it "the university governance body for AI-related decisions."

The first documented operational act of the committee predates the rewrite. The Provost's weekly update for March 30 to April 3, 2026 states that the three Google AI tools (Gemini app, NotebookLM, Google AI Pro) became available "After review by the Division of Information Technology's IT Security Office and the AI working committee of IT Governance." The original AI Working Group has been formally disbanded. The committee's co-chairs and members are published on the Division of IT's Information Technology Governance site, which the governance page links; no meeting cadence or minutes appear there.

The committee's page on the Division of IT's Information Technology Governance site (modified August 7, 2026) lists co-chairs Patrick Tomlin, Associate Dean for Academic and Creative Engagement, University Libraries (term ending June 30, 2029), and Jeremy Sippel, IT Director, Graduate School (June 30, 2028), and sixteen members: Luke Achenie (Chemical Engineering), Pooja Bhagawat (Graduate Student Senate), Stephen Biscotte (Assistant Vice Provost for Undergraduate Curriculum), Alberto Cano (Associate Vice President for Advanced Research Computing), Julie Cook (Research and Innovation), David Duckett (TLOS), Bob Edmison (Computer Science), Hikmet Gursoy (IT Director, Student Affairs), David Hicks (School of Education), Daniel Hollberg (Undergraduate Student Senate), Kevin Kefauver (Director, Data and Analytics, VTTI), Jeff Lang (IT Security Office), Jason Malone (Pamplin College of Business), Brock Mutcherson (Associate Dean for Assessment, Evaluation and Strategic Analytics), Reed Nagel (Finance), and Tiffany Willis (Director, Undergraduate Academic Integrity), with terms ending between 2027 and 2029. The page states the charge: "This committee will address issues relating to artificial intelligence and the university's mission and strategic objectives. It will provide recommendations to the IT Governance Executive Committee as to how to navigate the new landscape of artificial intelligence tools and processes." No meeting cadence, minutes, or subgroup rosters appear on the page.

Committee Structure

The committee reports to the IT Governance Advisory Committee with delegated responsibility for AI-related issues and provides recommendations to the IT Governance Executive Committee. The page says it "will operate in parallel" with the Research Technology Working Committee and the Teaching and Learning Working Committee. Its functions: advisory stewardship over shared practices, policies, and resources; day-to-day operational support (with implementation decisions remaining with campus operational leaders); advising executive leadership on high-risk AI implementations; and AI policy development, for which the page says authority "will be determined through the IT governance process." The three subgroups the page says the committee will establish: AI for Teaching & Learning (faculty guidance, syllabus templates, student AI literacy, faculty training), AI for Research (research-specific guidance, IP, publication standards, ethical review), and AI for Operations (administrative AI, automated decision systems with human oversight, vendor evaluation, staff training). The ai.vt.edu about page (August 2026) summarizes the committee's remit as "ongoing recommendations on AI policy, investment priorities, best practices, and risk management."

This structure embeds AI governance within the broader IT governance framework rather than creating a standalone governance body. The IT Governance framework was formed in 2022. Kyle E. Johnson serves as AVP for IT Governance, Planning, and Strategy.

AI Futures Working Group

A second, presidentially convened body now sits alongside the IT governance committee. President Tim Sands appointed the AI Futures Working Group in spring 2026 ("Last spring, I appointed the AI Futures Working Group," fall 2026 welcome message, August 24, 2026). The group is "charged with developing a vision for how Virginia Tech will teach, research, deploy, and lead on artificial intelligence in the years ahead" and is facilitated by the Office for Strategic Affairs. Co-chairs: Rishi Jaitly, professor of practice and distinguished humanities fellow in the Center for Humanities (College of Liberal Arts and Human Sciences), and Warren Dixon, dean of the College of Engineering. Members: France Bélanger (University Distinguished Professor, R. B. Pamplin Professor, Pamplin College of Business); Jeffrey Loeffert (director, School of Performing Arts); Dale Pike (associate vice provost for technology-enhanced learning); Sharon Pitt (vice president for information technology and chief information officer); Lauren Pollard (director for strategic affairs); Naren Ramakrishnan (University Distinguished Professor, director of the Sanghani Center, AI and

machine learning lead for the Institute for Advanced Computing); and Sarah Rodriguez (associate professor of engineering education, 2026 Microsoft AI Economy Institute Fellow). No representative of the College of Science, CALS, the University Libraries, the Graduate School, or the Division of Student Affairs is on the group.

On August 20, 2026, the university published the group's vision statement: "At Virginia Tech, we believe that the true value of any technology lies in its ability to enhance the human experience and expand human opportunity. Guided by our land-grant mission and the spirit of Ut Prosim (That I May Serve), we shape the future of AI with an eye on teaching, research and service, and dedicate ourselves long-term to setting a new standard for a technology that serves the public interest and the people of Virginia Tech. By fostering a culture that centers AI-fluency and ethical responsibility, we empower our community to interrogate, steward, and harness these technologies to address the questions and challenges that impact the future of how we learn, work and live. In so doing, we lead a wider regional, national, and global conversation through listening, learning, and leadership." The announcement states: "In the coming months, the university will be announcing tools, strategies, and opportunities to support the entire campus community in utilizing these emerging technologies in the spirit of our service motto." Sands' welcome message adds that over the summer the group "embarked on defining guardrails and operative principles for our institution" and that "This fall they will engage the campus more broadly."

The relationship between the AI Futures Working Group and the IT Governance AI Working Committee is not stated on any page reviewed. Two of the Futures group's members (Pike and Pitt) sit at the center of the IT governance structure; the Futures group's charge is vision and principles, the committee's is policy, tools, and risk. Neither body's page references the other, although the ai.vt.edu site navigation (September 23, 2026) carries an "AI Futures Working Group" entry that redirects to the Strategic Affairs page.

Leadership Context

Julie Ross assumed the role of Executive Vice President and Provost in January 2026, inheriting the framework's implementation. The AI Working Group was charged and completed its work under her predecessor, Cyril Clarke. Ross's portfolio includes the units most central to AI governance implementation: TLOS, CETL, the Office of Undergraduate Curriculum, Enrollment Management, and the Office of Analytics and Institutional

Effectiveness. On April 9, 2026, President Sands announced that he will step down "in the coming months" after twelve years, and that he will serve until a successor is in place; a presidential search is underway, with finalist interviews reported for fall 2026. On September 24, 2026, the university announced that Senior Vice President for Research and Innovation Daniel Sui will move to a special assistant role and that Kevin Pitts, dean of the College of Science, becomes interim vice president for research and innovation on September 28, 2026. The framework's implementation therefore proceeds under a provost in her first year, an outgoing president, and an interim research executive.

Amy Sebring, as EVP and COO, oversees DoIT, the IT Security Office, Human Resources, the Office of Audit Risk and Compliance, and Policy and Governance — the operational units responsible for tool procurement, security review, risk classification, and policy enforcement. In October 2025, Sebring endorsed the framework: "As Virginia Tech continues to imagine and embrace the potential of AI in how we learn, advance discoveries, and work, it is important that our approach be intentional and responsible, providing guidance and infrastructure that aids our campus community in embracing this powerful technology."

C. Stated Ethical Principles

The framework articulates seven core principles. The full principles document and a one-page summary are published as separate PDFs on ai.vt.edu. Each principle includes implementation language expanding on the summary statement.

1. Mission Alignment. "We use AI only in ways that further Virginia Tech's teaching, research, and outreach mission and honor our Principles of Community." Implementation language specifies that every AI implementation should be evaluated against the university's fundamental purposes of enhancing learning, fostering discovery, promoting engagement, improving the human condition, advancing knowledge, and mitigating potential harms.

2. Innovation for Good. "We explore new AI tools boldly while weighing benefits against risks." The university commits to fostering "a culture of continuous learning and improvement" and acknowledges "the inherent complexity and rapidly evolving nature of AI technologies."

3. Human-Centered Benefit. AI should extend, not replace, human insight, creativity, and well-being.

4. Responsible and Ethical Use. "We will promote understanding and discourse regarding the responsible and ethical use of AI." Implementation language addresses environmental impact, intellectual property rights, social consequences, quality, sustainability, and the findability, accessibility, interoperability, and optimization of reuse of AI digital assets (FAIR principles). The IP language is aspirational: "We will closely monitor and consider the implications and impact of the intersection of AI and intellectual property."

5. Fairness and Transparency. "We design, procure, and use AI systems that are explainable and strive to reduce bias. We disclose AI use to those affected by it." Implementation language addresses continuous improvement in inclusivity and equality of opportunity, attribution and transparency regarding data collection practices, and the acknowledgment that "there are several potential sources of bias in AI." The commitment to explainability is stated as a preference: "We will prioritize explainable AI solutions that clearly outline how specific results are produced and why."

6. Human Judgment and Accountability. "People remain accountable for decisions influenced by AI. A human should always be in the loop for important decisions." Implementation language states: "The university should preserve human judgment and accountability, with AI informing rather than replacing decision-making. Individuals using AI systems are responsible for adhering to existing university policies, standards, and security review processes." The principle extends beyond decision-making "to preserving human relationships and connections that are fundamental to our educational mission." It also commits to "an AI-informed workforce and student population" with AI-related upskilling, reskilling, and educational opportunities "where feasible."

7. Data Security and Privacy. "We safeguard personal and institutional data used in AI systems and interactions." Implementation language adds: "We will prioritize the safety, security, privacy, and protection of our community, valuing the unique benefits that human interactions bring to university processes. We recognize that people are ultimately responsible for decisions, especially in situations that directly impact others."

Framing and Scope

The principles are framed by the university's land-grant identity: "As a land-grant research university, Virginia Tech is committed to Ut Prosim — That I May Serve. Artificial intelligence amplifies our ability to teach, discover, and

serve the Commonwealth and the world, but only when its adoption reflects our Principles of Community and the public trust those principles embody."

The principles apply to "all members of the Virginia Tech community" and explicitly to "anyone who designs, procures, or uses AI systems at Virginia Tech." They are described as "not static rules but living guidance that evolves through practice and experience." Application will be supported by domain-specific practical implementation guides, risk assessment frameworks, approved tool catalogs, and regular training programs tailored to different roles and needs.

What the Principles Do Not Address

The principles do not establish enforcement mechanisms, consequences for violations, specific compliance requirements, or decision criteria for when AI use is prohibited. They do not define thresholds for "high-risk" AI implementations requiring committee review — though the DoIT risk classification standards provide a data-centric framework (see Section IV). They do not address AI use in admissions, hiring, financial aid, or other consequential decision-making contexts beyond the general "human in the loop" principle, despite the fact that VT has deployed an AI essay reader in undergraduate admissions (see Section IX). The gap between principle and operational implementation is the central structural challenge of VT's current AI governance posture.

II. POLICY INFRASTRUCTURE & INSTITUTIONAL ALIGNMENT

A. Policy Reviews or Gap Analyses

The framework report includes a Policy Gap Analysis (Appendix B) with detailed methodology. Subject matter experts applied criteria evaluating AI integration potential, data governance requirements, ethical use standards, and operational oversight mechanisms. The analysis found that VT's existing policy framework provides a "solid foundation," with the majority of policies requiring only incremental updates. Five policies (3% of those reviewed) were identified as demanding formal revision to ensure coverage of critical AI governance areas. The report references Policies 8205 (Media Policy) and 5617 (Safety and Security) as examples requiring attention. Academic integrity, intellectual property, and operational governance are identified as areas where AI technologies create potential policy gaps.

Human resources policies are flagged as presenting "substantial opportunities for AI integration enhancement, particularly in recruitment

processes, performance evaluation systems, and staff development programs that can leverage AI capabilities while maintaining fairness and transparency." IT governance frameworks require integration of AI Responsible Use guidelines into existing acceptable use policies.

The framework's five strategic recommendations address both immediate governance needs and long-term capacity building. The specific policies flagged for revision and the implementation timeline for each recommendation have not been published outside the framework PDF.

B. Policies Requiring Revision

The Undergraduate Honor Code does not contain AI-specific language. The syllabus requirements page (honorsystem.vt.edu/resources/syllabus.html) includes general language: "Students are strongly discouraged from misusing unauthorized online sources including generative artificial intelligence outlets. Students are strongly encouraged to consult their faculty members regarding the use of such outside materials as the misuse of these sources may constitute a violation of the Honor Code." This language discourages misuse but does not define what constitutes authorized versus unauthorized AI use; that determination is left to individual faculty.

TLOS guidance interprets existing Honor Code provisions as applicable: "The unauthorized use of ChatGPT and other AI software may fall under several definitions of academic dishonesty in the Undergraduate Honor Code." This is interpretive guidance, not codified policy. The Graduate Honor System similarly lacks AI-specific provisions; the Graduate School has issued a separate GenAI statement (see Section III.B).

Virginia Tech Policy 13020 (Misconduct in Research) does not address AI use in research design or dissemination. SIRC has issued guidance documents (see Section VI) that supplement but do not amend this policy. Policy 13000 (Intellectual Property) contains no AI-specific provisions. Policy 7010 (Securing Technology Resources and Services) governs departmental risk analysis for technology assets and provides the procedural backbone for AI tool evaluation, but was not written with AI in mind.

C. Supplemental Guidance Issued

Multiple units have issued supplemental AI guidance in the absence of formal policy revision.

TLOS

"Considering Generative AI and ChatGPT at Virginia Tech" — faculty, staff, and student guidance, including Honor Code considerations, course-level AI expectation setting, tool recommendations, and links to training modules. The page explicitly advises faculty: "Faculty are encouraged to provide clear and precise guidance about when or if the use of AI tools are allowed, encouraged, or prohibited, and candidly discuss with students the learning value of completing an assignment with or without such tools." For graduate students, TLOS directs faculty to communicate expectations early and ground conversations in the Graduate Honor Code.

SIRC

"Considerations for the Responsible and Ethical Use of AI" (drafted November 25, 2025; last revised May 19, 2026), which the SIRC index now lists under document number SIRC-0031. The January 2024 guidance that carried that number remains available as a PDF, but its HTML address now serves the Considerations page. The most substantial research-specific AI governance document at VT. Detailed in Section VI.

Graduate School

GenAI statement co-authored by Dean Aimée Surprenant and Dale Pike. Published on the TLOS site at tlos.vt.edu/resources/generative-ai/graduate-school-statement.html. Detailed in Section III.B.

Academic Advising & Transition Support

"Responsible Use of AI in Advising" (last updated February 2026), establishing a Human-in, Human-out (HIHO) framework. The third unit-level AI policy document at VT. Detailed in the Student Affairs/Admin dossier (Units 23-24).

Pamplin College of Business

AI Position Statement and AI Teaching/Research Guidelines, the only college-level AI policy documents identified in this inventory. Produced by the Dean's AI Task Force (Fall 2023 to present). The college launched the Pamplin+ curriculum in fall 2026 with a required first-year AI literacy course. Detailed in the Pamplin dossier (Unit 3).

Virginia Cooperative Extension

GenAI Guidance (VCE-1213), the second unit-level AI policy document. Listed on ai.vt.edu/guidance/resources.html. Detailed in the VCE dossier (Unit 7).

Engineering IT

AI resources page (it.eng.vt.edu/articles/ai-resources.html) with security and data-handling guidelines specific to the College of Engineering.

Risk Classification Standards and State Mandates

The DoIT-maintained risk classification standards govern all software, including AI applications. The [ai.vt.edu data-risk](https://ai.vt.edu/data-risk) guidance page (updated August 8, 2026) defines the three tiers with examples. Low risk: "Published research, public university information, course catalog content, general knowledge questions." Moderate risk: "Student records (FERPA), personnel records, internal university communications, unpublished research, draft grant proposals." High risk: "SSNs, financial account numbers, protected health information (HIPAA)" and "export-controlled research data (CUI / ITAR / EAR)." As of September 23, 2026, the tools page approves HokieAI, the ARC LLM services, Microsoft Copilot Chat, Microsoft 365 Copilot, the Google Gemini app, Gemini Notebook, and Google AI Pro for high-risk data; ChatGPT Edu remains approved for moderate-risk data only. The page carries a blanket restriction: "High risk data classified as export controlled or controlled unclassified information is NOT authorized for use with any AI tools." Tools not explicitly approved may only be used with low-risk, public data. The IT Security Office (ITSO) evaluates tools for high-risk data approval. The February 2026 version of the tools page listed the free Copilot Chat at low risk; the September 2026 page lists it at high risk.

Virginia Executive Order 46 (February 11, 2025) banned DeepSeek on state devices and networks. VT implemented the restriction immediately across all university and state-managed networks. ByteDance and Tencent application restrictions derive from a separate December 2022 Youngkin executive order. The IT Applications Restrictions page aggregates all state-mandated bans. Two further state actions define the policy environment without imposing direct mandates on the university. Virginia Executive Order 51 (July 11, 2025) launched a first-in-the-nation agentic AI pilot that scans state regulations and guidance documents for statutory conflicts, redundancies, and streamlining opportunities, and requires executive branch agencies to incorporate AI into periodic regulatory reviews taking place after December 31, 2025, with human decision-makers retained per Executive Order 30. In the 2026 General Assembly session, SB384/HB797 (signed April 13, 2026) directed the Joint Commission on Technology and Science to study a framework for independent verification organizations that would assess AI systems against safety standards, with a report due November 1, 2026. Neither action imposes compliance obligations on

Virginia Tech; both shape the Commonwealth posture within which the university's AI governance operates.

III. TEACHING & LEARNING POSTURE

A. Faculty Guidance Model

Virginia Tech employs a faculty-autonomy model for AI in the classroom. No institution-wide AI syllabus mandate appears on the TLOS guidance page or the Honor System syllabus-requirements page. Individual faculty determine their own course-level AI policies. TLOS guidance asks faculty to "continue to be clear in your expectations with your students related to the Undergraduate Honor Code and the use of AI software, just as you would with other websites that may provide students with means to engage in academic dishonesty." The guidance adds: "Appropriate and inappropriate uses of generative AI vary from course to course (and may even vary among assignments and activities within a single course), so students need clear, context-specific guidance they can confidently apply in each setting. Do not assume that students have previously received instructions that match your expectations."

Self-Paced Training

TLOS provides a self-paced "AI Essentials for Teaching and Learning Learning Journey" with five modules (Module 0 to Module 4): Intro to Generative AI, Foundational AI Literacy for Educators, Intro to AI Prompting for Faculty, Integrating AI into Teaching Workflows, and AI-Conscious Course and Assignment Design. TLOS also offers "AI in 5 Minutes" activities for course integration and links to Traci Gardner's "Teaching Writing Across the Curriculum with AI" resource (250+ resources).

Curriculum Development Grants

CETL co-sponsors, with the Office of Undergraduate Curriculum and TLOS, AI Undergraduate Curriculum Development Grants (launched February 2026). Round one offered up to \$10,000 per proposal (\$5,000 maximum per individual faculty member) with a December 2025 deadline, a Summer Institute gathering (May 22, 2026), and a Fall 2026 showcase. The Office of Undergraduate Curriculum's recipients page lists 29 funded proposals with lead college, department, and focus: College of Engineering 5 (including the CS-led 18-credit AI minor, proposed by Margaret Ellis, Brian Mayer, Sehrish Nizamani, Naren Ramakrishnan, and Joan Monahan Watson), CLAHS 6, College of Science 6, Architecture, Arts, and Design 5, CALS 3,

CNRE 2, Honors College 1 (Stephanie Lewis and Neal Henshaw), and Pamplin 1 (Philip Romero-Masters). The page does not give award amounts.

Round two, retitled "Grants to Support AI Awareness, Resilience, and Literacy Across the Undergraduate Curriculum" (page dated September 21, 2026), reduces the ceiling to "a maximum of \$5,000 per proposal" with "a maximum of \$2,500 going to each individual faculty member." Deadline December 4, 2026; awardees notified by January 15, 2027; Summer Institute May 21, 2027; final report July 1, 2027; target offerings AY 2027/28 or 2028/29. The scope language now spans "AI-aware, AI-resilient, or AI-centric" courses. AI software subscriptions, GTA costs, and buyouts are excluded from funding.

Interdisciplinary AI Minor

An 18-credit undergraduate minor in artificial intelligence, open to students in any major, launched for fall 2026 (catalog year 2026-2027). Announced June 14, 2026; classes without prerequisites could be added from June 10, 2026; students may declare the minor through the College of Engineering beginning August 3, 2026. Structure: a 9-credit core (CS 1064 Introduction to Programming in Python or CS 1114; CS 2104 Introduction to Problem Solving in Computer Science; CS 3804 Foundations and Applications of Artificial Intelligence); a 3-credit ethics component drawing on computer science, philosophy, and business (options named include PHIL 3334 Ethical Perspectives on Artificial Intelligence, CS/STS 4014 Algorithms and Society, and BIT 4604 Data Governance, Privacy, and Ethics); and a 6-credit interdisciplinary application module chosen from four tracks (Computational, Arts, Social Science, Human Impact), with named courses including ENGL 2024 AI, Creativity, and the Art of Being Human; FL 2744 AI and Global Languages; PHIL 1404 The Skeptic's Guide to AI; CINE 2014 AI in Filmmaking; and MUS 2014 AI in Music. Christine Julien, head of the Department of Computer Science, led the collaborators: "We made a deliberate choice: Instead of building something for computer science students and opening it to others, we built it from the start for the whole university." The minor originated as a round-one AI curriculum grant proposal. The Computer Science department page describes it as open to "any Virginia Tech undergraduate student, regardless of major."

Faculty Cohort

The Teaching in the Age of Generative AI Summer 2024 Faculty Cohort included participants from multiple colleges: Engineering Education, English, History, Performing Arts, Visual Arts, and others. The cohort

produced the aiteaching.vt.domains resource site with sample syllabi, reflective essays, and AI teaching practices.

AI Literacy Survey

A Fall 2024 student AI literacy survey was conducted; results are referenced on the TLOS GenAI page via a dashboard link. Separately, the Kim/Klopfer study (CNRE Geography, published in Springer's *Innovative Higher Education*, February 2025) found that as of 2023, approximately 70% of VT students used AI tools less than once a week. STEM students were more frequent and comfortable users than non-STEM peers. The study documented an "AI divide" between STEM and non-STEM students. Both students and faculty agreed on the need for clear university policies. Pike called the study a foundation for "informed decisions about AI use while maintaining academic integrity and promoting innovation."

B. Graduate School Guidance

The Graduate School issued a GenAI statement co-authored by Dean Aimée M. Surprenant and Dale Pike, published on the TLOS site at tlos.vt.edu/resources/generative-ai/graduate-school-statement.html.

The tone is described as "cautiously optimistic," acknowledging "legitimate concerns about the potential misuse of new AI technologies" while noting "tremendous potential for these tools to positively augment human capabilities and productivity across many disciplines."

On academic integrity: "Using ChatGPT or other AI to generate work and misrepresenting it as one's own original work (replacing the student's effort expected by the course instructor with AI or using AI to replace rather than augment learning) would constitute cheating or plagiarism under the Code."

On faculty autonomy: "The extent to which AI is appropriate for any given coursework is a decision faculty will need to make on a course-by-course or assignment-by-assignment basis."

Recommendations for faculty include: ensure syllabi directly address generative AI use; frequently communicate AI-use expectations; focus assignments on applying skills over reciting facts; emphasize critical analysis and personal reflection; consider formative over summative assessment; conduct open discussions on responsible AI use grounded in Honor Code principles.

A GenAI community email list is available for faculty who want to participate in occasional AI conversations and event announcements.

C. AI Detection Tools Policy

Virginia Tech has taken an explicit institutional position against reliance on AI detection tools. TLOS states: "Virginia Tech has not licensed or endorsed any specific platforms for detecting generative AI." The guidance cites accuracy limitations, false positives, and false negatives. TLOS's operational directive to faculty is unambiguous: "Please also refrain from using AI detection software to check students' assignments/exams, as the Office for Undergraduate Academic Integrity does not accept AI detection reports as a form of evidence for Honor Code cases." Any content uploaded to an AI detection tool must be stripped of all personally identifiable information (PII).

The position does not prohibit faculty from using detection tools for their own awareness, but it removes any evidentiary value from such tools in formal proceedings.

D. Faculty Support Infrastructure

Virginia Tech maintains a multi-unit support infrastructure for faculty navigating AI.

TLOS Professional Development Network

Workshops, certificates, faculty inquiry groups, and learning communities. PDN AI sessions cover applications of AI in the classroom and beyond.

CETL Workshops

AI-focused workshops including "How do we teach well when AI is everywhere?" (February and March 2026) and "Current State of AI Technologies" sessions. The workshop framing explicitly rejects reactive approaches: "We'll move beyond reactive fixes ('How do I prevent ChatGPT on this assignment?') to intentional pedagogical design." CETL also runs the Course Design Clinic (includes generative AI in course design) and co-administers the AI Undergraduate Curriculum Development Grants. CETL's Welcome Back Symposium (August 21, 2026) included two AI sessions: "Why Can't Chat GPT Write my Essay?" (Katherine Hall, Advanced Instructor, English) and the closing keynote "If AI Can Do the Assignment, Why Are We Still Assigning It?" (Nicole Pitterson, Associate Professor, Engineering Education). The fall 2026 CETL workshop list had not been posted as of the evidence snapshot date. The CETL AI resources hub (teaching.vt.edu/hub/ai-resources.html) was last modified February 23, 2026 and does not reference HokieAI.

CIRTL at Virginia Tech

The Associate Teaching Program for graduate students and postdoctoral associates includes a "Current State of AI Technologies" session as an approved workshop.

Faculty Innovation Groups

Facilitated by the Office of the Executive Vice Provost with CETL and TLOS, these use a Community of Practice framework for emerging instructional technologies.

Generative AI Learning Community

A faculty email list for conversations about AI at Virginia Tech, upcoming events, and resources.

Traci Gardner WAC/AI Resource

A VT instructor in Technical & Scientific Communication created a curated site of 250+ educational resources for teaching writing across the curriculum with AI. The site is linked from the TLOS generative AI guidance page; it does not appear on the ai.vt.edu resources page as of June 10, 2026. Gardner co-authored the Association for Writing Across the Curriculum (AWAC) Statement on AI and Writing Across the Curriculum (2025).

Rolai Pilot

TLOS ran a limited pilot (20 instructors, 10 per semester) of Rolai, a GenAI platform integrated with Canvas, from June 2025 through June 2026. The pilot offered unlimited access to multiple leading GenAI models and was approved for student use. Selection criteria included broad discipline range, preference for discipline-specific AI use over teaching AI as a topic, and prior GenAI experience. The pilot page still states there is "no promise of continued access to the platform after the pilot ends in June 2026." The ai.vt.edu pilots page (last updated April 6, 2026) lists the pilot as "June 2025 - June 2026 (No renewal)"; no findings report has been published, and Rolai does not appear on the September 2026 tools list or the August 2026 tools flyer.

2026 AI Teaching Symposium

Held August 13, 2026 at the Data and Decision Sciences Building, Blacksburg. Theme: "AI On / AI Off: The Balance of Human-Centered AI." Keynote: David Wiley, Academic Affairs Fellow for AI in Education, Marshall University. Formats: lightning talks, tech demos, 45-minute workshops, and panels. Organized by TLOS with support from CETL, University Libraries, and Undergraduate Academic Affairs. No public recap, attendance figure, or

recordings had been posted as of the evidence snapshot date. Two earlier 2026 events belong in the same line: Universal Design for Learning Day (April 10, 2026, North End Center; TLOS, CETL, and Services for Students with Disabilities; announced in the Provost's weekly update for March 30 to April 3, 2026) took the theme "From Principles to Practice: Teaching Innovation with UDL and Artificial Intelligence," and the TLOS Professional Development Showcase (April 21, 2026) ran a "Teaching with AI" track with more than 30 faculty presenters.

IV. TOOL ECOSYSTEM & PROCUREMENT GOVERNANCE

A. Approved AI Tools

The ai.vt.edu/tools page (last updated September 23, 2026) lists centrally vetted AI platforms. All tools undergo evaluation for security, privacy, effectiveness, and alignment with university values before approval. The page carries a blanket restriction: "High risk data classified as export controlled or controlled unclassified information is NOT authorized for use with any AI tools." The approved ecosystem:

Core Generative AI Platforms

HokieAI (hokie.ai.vt.edu) — Active. Launched August 2026 (DoIT availability notice August 10; VT News feature August 23). "Virginia Tech's newest university-supported AI platform" provides "metered access to vetted commercial models for generative and agentic AI." Available to all students, faculty, and staff at no cost to users. Built on the Cloudforce NebulaONE platform; initial models are OpenAI GPT-5.6 Luna, GPT-5.4 mini, GPT-5.4, and GPT-5.5. Baseline capabilities: chat, drafting and revising, coding, personal agent creation and sharing, document upload for analysis, specialized agents, and image creation. Use is metered over a monthly cycle; DoIT states that "During our initial trial period, findings indicated that for most generative AI users, the baseline monthly allocation will meet their needs." The allocation size is not stated in the August 10 DoIT notice, the August 23 VT News feature, or the HokieAI page (September 2, 2026). "Approved for all university data risk levels," with the export-control and CUI exclusion. The data-risk guidance page states that the "vendor agreement with Cloudforce stipulates that user inputs will not leave Virginia Tech custody, and that they will not be used to train current or future AI models." Sharon Pitt, vice president for IT and CIO: "Our implementation team and steering committee have paid close attention to data protection, system governance, reliability, responsible stewardship of resources, and most importantly, the needs of users." Carl Harris, Chief

Technology Architect: "access to leading foundation and frontier AI models at Virginia Tech shouldn't depend on a student's ability to pay or a department's willingness to absorb the cost." Chris Bateson is technical lead. A PDN self-paced course, "AI at Virginia Tech: A Primer for HokieAI," is recommended for all users and required, with a second "HokieAI API Access Training" course, for API access. Drop-in office hours run Thursdays from August 20, 2026. The steering committee's membership and the contract value are not stated in the August 10 DoIT notice, the August 23 VT News feature, or the HokieAI page.

ARC LLM Gateway (llm.arc.vt.edu) — Active. Available to all VT students, faculty, and staff at no cost via VT login; no ARC account needed. Three hosted LLMs with RAG, web search, vision, and image generation. Approved for high-risk data. All data stays on-premises; no data sent externally; user data not used for model training; data deleted after session. Launched March 2025, expanded October 2025.

ARC LLMs via Open OnDemand — Active. Available to all VT researchers with ARC accounts. Dedicated instance providing exclusive web and API access to any publicly available LLM model. Requires ARC account. 40+ models available. Approved for high-risk data.

ARC LLM API (llm-api.arc.vt.edu) — OpenAI-compatible API endpoint. Compatible with VS Code GitHub Copilot, Jupyter notebooks, and data scripts.

ChatGPT Edu — "Active Pilot Program (will conclude in Dec. 2026)."
Approved for moderate-risk data. Originally a 500-user pilot (January to December 2025), extended through 2026; the TLOS pilot page (updated June 16, 2026) gives the end date as December 31, 2026 and notes that access is removed after 60 or more days of inactivity. Requires a mandatory 30-minute asynchronous training module. Not selected as an enterprise platform for VT; pilot findings are published (see Section IV.B). ChatGPT Edu does not appear on the August 10, 2026 tools flyer. Neither the TLOS pilot page (June 16, 2026), the tools page (September 23, 2026), nor the HokieAI announcements addresses a successor for ChatGPT Edu users; HokieAI, which runs OpenAI models, is the only new all-community generative AI platform announced since the pilot's extension.

Microsoft Copilot Chat (free, included with VT M365 accounts) — Active. Available to all VT community members. Enterprise data protection. Listed as "Approved for high-risk data" as of September 23, 2026 (the February 2026 version of the page listed it at low risk).

Microsoft 365 Copilot Chat (licensed) — Available via department purchase for employees following the spring 2025 pilot. Per-seat licensing. Approved for high-risk data.

Google Gemini App — Active. Available to all users. Approved for high-risk data when logged into a VT Google account. The Gemini app, NotebookLM, and Google AI Pro were released in March 2026 after review by the IT Security Office and the AI Working Committee.

Gemini Notebook (NotebookLM, notebook.google.com) — Active. Available to all users. Approved for high-risk data when logged into a VT Google account.

Google AI Pro / Gemini Advanced — Available via department purchase, employees only. Approved for use with high-risk data when logged into VT Google account.

Platform-as-a-Service

Amazon Web Services, Google Cloud Platform (including Vertex AI), and Microsoft Azure are listed as active cloud platforms for AI and machine learning workloads, available to "VT employees and their designees," approved for high-risk data. This section of the tools page is new since April 2026.

AI-Enabled Tools Within Licensed Platforms

Adobe Creative Cloud (Photoshop, Premiere), Genio (AI note-taking/transcription), Gradescope (AI-based grading), iClicker (AI-generated assessments), Grackle and PREP (AI PDF accessibility remediation), Panopto (AI transcription and audio descriptions), Zoom AI Companion (meeting summaries). Panopto replaced Kaltura as the university video platform for fall 2026; the TLOS "Top 10 for Fall 2026" page (August 13, 2026) is devoted to the migration.

Career Tools

VMock — AI-powered resume feedback tool available to all students through Career and Professional Development.

Operational AI

The admissions AI essay reader is the most consequential operational AI deployment outside research computing. Detailed in Section IX and the Student Affairs/Admin dossier (Units 23–24).

The TLOS "Considering Generative AI" page, updated August 17, 2026, one week after the HokieAI availability notice, still states: "At Virginia Tech, the

only generative AI tool currently licensed and approved for use by all faculty, staff, and students is Microsoft Copilot, which is powered by OpenAI's large language models." The page does not mention HokieAI. The tools page, the August 2026 flyer, and the President's welcome message present HokieAI as available to everyone; the Libraries' AI guide (September 23, 2026) does not mention it. The two institutional descriptions of the tool posture are inconsistent as of the evidence snapshot date. The ARC LLM Gateway is likewise available to all with VT login, but its framing on the tools page emphasizes research use.

B. Pilot Programs

Three AI platform pilots have been conducted. The ai.vt.edu pilots page (April 6, 2026) lists two of them, ChatGPT Edu and Rolai, and links one findings report (ChatGPT Edu); the Microsoft Copilot outcome report is a separate PDF. A fourth evaluation, the HokieAI "initial trial period" referenced in the August 2026 availability notice, has no published findings report.

ChatGPT Edu Pilot

January 2025 to December 2025, extended through December 31, 2026. Planning began October 2024. 360 participants launched January 16, 2025; some withdrew after learning chats could not be migrated if access ended. Pilot purpose: make an informed recommendation to the AI Working Group regarding future GenAI tool investment, and collect validated use cases. Evaluation survey: 405 respondents. Net Promoter Score of 55. 64% promoters, 27% passive, 9% detractors. At application, 94% had used ChatGPT at least once; 76% felt comfortable. Half of participants primarily used ChatGPT Edu for administrative and operational tasks: drafting and revising written materials, summarizing documents, coding and debugging, brainstorming, and composing emails. Research uses included literature triage, related-work discovery, and data analysis scaffolding. The pilot team only pursued approval for moderate-risk data due to time constraints. Findings Report and Beneficial Use Cases Report published as PDFs. The tools page now lists the pilot as concluding December 2026.

Microsoft 365 Copilot Pilot

Spring 2025, completed. Six-week pilot with 177 faculty and staff participants. Weekly training sessions and hands-on projects. At close, 80% satisfied or very satisfied; 92% would recommend to a colleague. Participants reported measurable time savings, improved document creation workflows, and enhanced confidence with digital AI systems.

Limitations noted: absence of advanced Excel analytics and variations in feature depth across M365 apps. Based on the pilot's success, M365 Copilot was approved as a department-purchase AI option. Final Report published as PDF. The framework report notes: "Usability and feature parity, not just security, drive adoption."

Rolai Pilot

June 2025 to June 2026, concluded. 20 teaching faculty (10 fall, 10 spring) with monthly one-hour professional development sessions. Integrated with Canvas. Unlimited access to multiple GenAI models. Approved for student use. The ai.vt.edu pilots page lists the pilot as "June 2025 - June 2026 (No renewal)"; no findings report or replacement has been published, and Rolai is absent from the September 2026 tools list.

C. Procurement & Approval Pathways

DoIT's three-tier risk classification system governs all software including AI tools. Low-risk: public data only; unapproved tools permitted. Moderate-risk: ChatGPT Edu approved. High-risk: HokieAI, the ARC LLM services, Microsoft Copilot Chat and Microsoft 365 Copilot, the Google Gemini app, Gemini Notebook, Google AI Pro, and the three platform-as-a-service clouds approved (tools page, September 23, 2026). Export-controlled data and CUI are excluded from every AI tool. The IT Security Office evaluates tools for high-risk data clearance.

The tools page advises: "If an AI tool is not explicitly approved, it may only be used with low-risk, public data." It also notes: "If a tool is not listed, it does not necessarily mean it is disallowed." Users must verify they are logged into the correct VT instance to ensure enterprise data protection.

For research-specific AI tools, researchers must consult with their department, principal investigator, data use agreements, IRB, PRDP, and OESRC. SIRC's "Considerations" document provides a stage-by-stage framework for this.

The Low-Risk, Low-Cost Software approval process provides expedited purchasing for qualifying tools. LTI integration requests apply for Canvas/Zoom AI tools.

AI Meeting Assistants (Spring 2026)

In spring 2026 the Division of IT set boundaries on AI meeting assistants that record, transcribe, and summarize conversations. The guidance, circulated through the Office of the Provost's weekly update of March 16 to 20, 2026 and detailed in an April 1, 2026 IT notice, approves the built-in AI

assistants in university-supported Zoom and Microsoft Teams and disallows third-party AI meeting assistants on Virginia Tech networks. The built-in assistants were reviewed for institutional use; the notice explains why other tools are not permitted on university systems.

V. ACADEMIC INTEGRITY INTEGRATION

A. Honor Code Language

The Undergraduate Honor Code does not contain AI-specific language. The code's definitions of academic misconduct cover cheating, plagiarism, and unauthorized assistance in general terms. The pledge reads: "As a Hokie, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do."

The syllabus requirements page adds general AI-related language: "Students are strongly discouraged from misusing unauthorized online sources including generative artificial intelligence outlets." Faculty are expected to include the Honor Code statement on syllabi and are "encouraged to describe prohibited behavior and the consequences of such activity." The recommended sanction for misconduct is F (failure due to Honor Code violation), documented on the transcript.

TLOS interprets existing provisions as covering AI misuse: "The unauthorized use of ChatGPT and other AI software may fall under several definitions of academic dishonesty in the Undergraduate Honor Code." The Graduate School GenAI statement similarly interprets existing Graduate Honor Code provisions as covering AI-generated work misrepresented as the student's own.

The Office of Undergraduate Academic Integrity provides an Academic Integrity Success Course on Canvas (30 minutes) and an Understanding the Code module. Neither module's content has been publicly described in terms of AI-specific coverage, though the honorsystem.vt.edu site references generative AI in the syllabus guidance.

Pamplin College of Business is the only college documented as having issued its own AI position statement and guidelines that articulate expectations for AI use in coursework and research beyond the institutional framework.

B. Enforcement Process

The Office of Undergraduate Academic Integrity handles honor code proceedings. Faculty determine whether misconduct occurred and

recommend sanctions through a structured process involving a facilitator meeting with the student. More severe cases can escalate to hearing panels with potential sanctions including suspension or expulsion. The recommended default sanction is F. Students may petition to have the F removed after completing the Academic Integrity Education Program (a two-part educational requirement).

Public sources do not document AI-specific evidentiary standards, adjudication procedures, or case statistics for AI-related violations. The explicit exclusion of AI detection reports as evidence (documented in Section III.C) means that AI-related honor code cases must rely on other forms of evidence — instructor judgment, assignment design, contextual analysis, or student admission. How this plays out in practice is not publicly documented.

The Graduate Honor System reviews each case in its own context. GHS decisions about potential violations are based on what guidance faculty provided. The system chair for 2025–26 is doctoral student Molly Ryan (Rhetoric and Writing).

VI. RESEARCH GOVERNANCE & ETHICS

A. Research Office AI Guidance

SIRC, within the Office of Research and Innovation, maintains the most substantial research-specific AI governance output at VT. It has published two documents; as of September 2026 the SIRC index lists only the later one, under the document number the earlier one carried, while the earlier one remains available as a PDF.

"Guidance: Using Artificial Intelligence During Research Activities" (January 2024)

Originally issued as SIRC-0031 and developed with campus stakeholders. Established responsibilities across five numbered roles: principal investigators (responsible for understanding AI tools and compliance with all policies and regulations), research team members, the IT Security Office (staying abreast of AI advances, threats, and security tools), university departments ("regularly analyzing risks related to their technology assets, including the integration of AI tools and threats to AI models, using the Virginia Tech IT Risk Assessment Process"), and SIRC, whose entry covers its research integrity program, PRDP (guidance on privacy and security protections for research data), and the Human Research Protection Program (supporting AI incorporation in human subjects research). Key

provisions: only low-risk (public) data may be shared with generative AI tools absent vendor agreements; medium and high-risk data requires contractual protections; AI tools cannot be responsible or accountable; authors who rely on AI-generated material without confirming its accuracy "will open themselves up to findings of academic and research misconduct, should fabrication, falsification, or plagiarism be contained within those AI materials." The only university policy the PDF cites is Policy 13015 (research data ownership). The document described itself as "living" guidance requiring "continuous updates." As of September 2026 the document's HTML address serves the Considerations page instead; the PDF (effective date January 1, 2024, still numbered SIRC-0031 on its face) remains available at its original address; and the SIRC forms and guidance index (modified March 12, 2026) lists SIRC-0031 as the Considerations document. Two documents now share one number, and the index shows only one of them. Whether the 2024 guidance was formally withdrawn or folded into the later document is not stated on any page reviewed.

SIRC Considerations Document (SIRC-0031; drafted November 25, 2025; last revised May 19, 2026)

"Considerations for the Responsible and Ethical Use of AI." Substantially more detailed. Translates the university's AI Framework and the Generative AI Delegation Taxonomy (GAIDeT, Suchikova et al. 2025) into stage-specific considerations across the research lifecycle. The May 19, 2026 revision numbers eight stages: conceptualization, literature review, methodology, software development, data management, writing, ethical oversight, and a new eighth stage, "Publication Support: Responsible Use of AI in Research Dissemination and Communication." A separate caution addresses peer and proposal review, noting many journals and sponsors prohibit AI use in these contexts. For each stage, guidance spans all seven VT AI principles in a matrix format with reflection prompts and practical tips. The revision links a "GAIDeT Declaration Generator: An open-source web tool for documenting and disclosing Generative AI use throughout the research lifecycle," and adds an "Examples of Discipline Specific Guidance" section citing APA, ACM (ACM-USTPC generative AI principles), AMA, HFES ("AI Guardrails for Human Use"), IABC, and UNESCO. Feedback is routed to the Privacy and Research Data Protection Program (prdp@vt.edu).

Key provisions: AI tools must not be used to decide which ethical reviews are required. The document states that, as of January 2026, federal research compliance regulations do not allow AI to make determinations of whether research plans meet regulatory requirements. AI-assisted methods

must be reproducible, explainable, and aligned with disciplinary standards. Researchers should maintain verification logs for AI-assisted outputs. The document does not mention HokieAI; the August 23, 2026 HokieAI announcement states that research faculty may use the platform "in consultation with the Office of Scholarly Integrity and Research Compliance (SIRC), in developing guidelines and standards specific to their research, intellectual property, publications, peer reviews, and data handling protocols."

The document is explicitly scoped to "the responsible use of AI tools in research, not on the development, training, or fine-tuning of AI or machine-learning models."

B. Data Ownership & IP Position

Virginia Tech Policy 13015 (Ownership and Control of Research Data, Results, and Related Materials) establishes that VT retains ownership of research data. Policy 13000 (Intellectual Property) governs all IP but contains no AI-specific provisions. The IP disclosure form does not include AI-specific fields.

The AI principles state: "We will closely monitor and consider the implications and impact of the intersection of AI and intellectual property." This is aspirational language. No VT-specific policy addressing AI-generated inventions, AI co-authorship of patent applications, or IP ownership of outputs generated with AI tool assistance has been publicly documented. No standalone AI-specific IP guidance appears on the pages of Virginia Tech Intellectual Properties, Inc. (VTIP), a not-for-profit affiliated corporation chaired by the senior vice president for research and innovation (Daniel Sui through September 2026).

The VT Libraries AI guidance page references the USPTO Inventorship Guidance for AI-Assisted Inventions (updated November 2025, rescinding the previous February 2024 guidance).

C. Authorship & Disclosure Standards

VT aligns with journal and research community consensus: AI models cannot meet authorship requirements because they cannot take responsibility for submitted work. The SIRC Considerations document addresses AI use in writing, stating that researchers must maintain authorship integrity, ensure factual and ethical accuracy, and never delegate human reasoning, interpretation, or scholarly responsibility to AI systems. AI use in publication support must comply with publisher and

sponsor disclosure requirements. The document references specific journal and publisher AI policies.

VCE-1213 provides a disclosure template for Extension publications: "During the preparation of this work, the author(s) use [AI TOOL] to [PURPOSE]. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication." The document applies the template to itself: "During the preparation of this document, the author(s) used Virginia Tech ChatGPT Edu to review the content for clarity, completeness, and accessibility." AI tools should not be cited in reference lists and AI-generated unique URLs should not be included. The tool named in VCE-1213's own disclosure, ChatGPT Edu, is scheduled to conclude in December 2026.

D. Human Subjects Considerations

The Human Research Protection Program supports researchers incorporating AI tools in human subjects research. The SIRC guidance directs researchers to consult with their department, PI, data use agreements, and IRB. The SIRC Considerations document's seventh-stage guidance covers ethical oversight specifically, noting that AI tools must not determine whether research plans meet regulatory requirements. Specific IRB protocols for AI-assisted human subjects research were not identified as standalone public documents. The framework recommends "ethical review processes that address the unique considerations of AI."

VII. LIBRARY & INFORMATION LITERACY SIGNALS

The University Libraries maintain an "AI: Tips & Tools from Your Librarians" research guide (guides.lib.vt.edu/ai; author of record Yinlin Chen, Associate Director, Center for Digital Research and Scholarship) that serves as a curated aggregation point for AI guidance from across the institution and beyond. The guide was last updated September 23, 2026 and now has five tabs: Home; What is AI?; Using (and Citing) AI; Resources, Tools & More; and Guidance & Policies. The home page routes questions to a named AI Support Group (ai-library-support-g@vt.edu): "Have questions or need more in depth help? Reach out to our AI Support Group!"

VT Institutional Documents

The guide links to: ai.vt.edu, the Responsible and Ethical AI Principles, TLOS GenAI guidance, SIRC research AI guidance, the Graduate School GenAI statement, PDN AI sessions, ARC AI-as-a-Service, and a sign-up form for the Generative AI Learning Community.

State-Level Guidance

SCHEV Reference Guide for AI Integration in Education (September 2025), Virginia Executive Order 30 (January 2024, \$600K proposed to pilot AI in state agencies), the VITA executive-order page and higher-education AI registration process, the Virginia AI Education Guidelines, and VITA AI policy and standards. House Joint Resolution 32 (2026 Session) directs the General Assembly's Joint Legislative Audit and Review Commission to study AI use in Virginia higher education (academic integrity, data privacy, equity and access, transparency, faculty autonomy and instructional agency), to develop a model policy, and to recommend AI tools, curricula, and other resources for a statewide clearinghouse, with a report due by early 2028 (VPM coverage, September 22, 2026). Virginia Tech is not named in the legislation.

Federal Guidance

USPTO Inventorship Guidance for AI-Assisted Inventions (updated November 2025), USPTO AI resources, Department of Education "Designing for Education with Artificial Intelligence" (2024), Department of Education "Artificial Intelligence and the Future of Teaching and Learning" (May 2023), White House Executive Order on Safe, Secure, and Trustworthy AI (October 2023), and the Campus AI Exchange policy map. A funding-agency section, new since April 2026, links NSF merit-review AI guidance, NIH notice NOT-OD-25-132, DOE Office of Science funding-opportunity guidance, and IMLS guidance.

Professional society AI position statements are also linked.

Data Security and Prompt Library

The guide's data security advisory now reads: "Think twice about the information you put into an AI tool—if you would not post your AI prompts and other inputs in a blog, then they should not be in an AI tool either!" It notes that "VT's Copilot specifically does not train on your data." The earlier sentence naming ChatGPT.com and DeepSeek.com as platforms not to be used with personal, sensitive, or high-risk data no longer appears on the home page.

The Libraries maintain the VT prompt library (promptlibrary.cdhrs.lib.vt.edu, VT access), described as a collection of effective prompts to fine-tune LLMs and serve as an instructional dataset.

Tools Page

The "Resources, Tools & More" page (guides.lib.vt.edu/ai/picks, updated September 23, 2026) is the most detailed institution-facing tool list outside ai.vt.edu. It groups "Virginia Tech-Approved AI tools" (ChatGPT Edu, annotated "The ChatGPT Edu pilot will end on Dec. 31, 2026."; Google Gemini App; Google NotebookLM; Google AI Pro; Microsoft Copilot Chat; Microsoft 365 Copilot Chat; ARC LLM gateway; ARC LLMs via Open OnDemand), "Other AI tools and cloud platforms" (ChatGPT, Claude, Claude Code, GitHub Copilot, Cursor, OpenAI Codex, Perplexity; the page says these "should only be used with low-risk, public data"), and "Research AI Tools" (Consensus and scite.ai, annotated as prior VT trial subscriptions; Covidence, free for VT users), plus Connected Papers, Elicit, Litmaps, Research Rabbit, SciSpace, and Undermind.ai. HokieAI is not on the September 23 version of this page.

CDRS Grants and Lectures

The Center for Digital Research and Scholarship lists its Collaborative Research Grants under a "Seed Funding for AI Research" heading. The 2026 round (call closed April 16; awards announced May 19, 2026; the awards page states the ten projects "were selected through a random draw") funded ten projects, two with AI components: "Human-Centered GeoAI for Age-Friendly Walkability: Curated Data and Visual Infrastructure at Warm Hearth Village" (\$10,000; Eunju Hwang, School of Design; Junghwan Kim, Geography; Bipasha Banerjee and Jennifer Goynes, Libraries) and "Resilient Post-Industrial Landscapes along the James River: A Collaborative AI and Archival Approach" (\$10,000; Irene Curulli, Landscape Architecture; Banerjee). The CDRS Distinguished Lecture Series ran two AI lectures in 2026: "Responsible AI at the Library of Congress" (Natalie Buda Smith, "Director of Digital Strategy (AI and Innovation) at the Library of Congress"; April 24, 2026) and "Disciplinary Thinking as AI Literacy" (Kimberly Goddard Loeffert, School of Performing Arts; August 28, 2026). Fall 2026 University Libraries workshops include "AI-enhanced Collaborative Qualitative Analysis with Atlas.ti Web" (October 8, Nathaniel Porter) and "AI Tools for Researchers & Publishing Tips" (October 20, Mengyu Yin). The CDRS page states a mission "to empower innovation, collaboration, and ethical integration of artificial intelligence within library operations, services, and research."

Digital Literacy and Professional Development

Through digital literacy initiatives (digilit-g@vt.edu), the Libraries offer in-class workshops on AI and digital ethics on a limited basis. Yinlin Chen's

ACRL course on prompt engineering for librarians represents national-level professional development.

IMLS Grants

The Libraries won an IMLS grant (\$115,398, RE-256655-OLS-24) to develop a Generative AI Incubator in partnership with the University of California, Riverside. PI: Yinlin Chen. Co-PIs: Edward Fox (VT CS) and Zhiwu Xie (UC Riverside). Participants learn GenAI fundamentals, create library-use-case applications in four themes: GenAI literacy, collection, preservation, and research. A first LIBRAI symposium was announced for June 2026; no program, recap, or news item confirming that it took place was found as of the evidence snapshot date. A separate Digital Public Library of America (DPLA) grant, the Metadata Remediation and AI-Enhanced Workflow Pilot (VT News, March 18, 2026; Wen Nie Ng, digital collections and emerging formats librarian), develops human-centered AI metadata workflows, with library student employees performing subject enrichment, vocabulary mapping, and description field evaluation on real metadata sets. The workflow is designed for under-resourced organizations. Students learn "not only how to use AI tools, but also when and why not to use them."

Dean and Faculty Statements

Dean Tyler Walters is one of the few VT deans to have made public AI statements. In the *Collegiate Times* (March 2026), he stated the Libraries' digital archives have been implementing AI for approximately five years, primarily as a consolidation and organization tool, and that generative AI saves "months and months of time" for summarization. In *Times Higher Education* (September 2025), he described library studios equipped with ML and AI capabilities, emphasizing the staffing model — library professionals providing tailored support beyond technology access alone. Yinlin Chen, in the same *Times Higher Education* piece, argued that librarians will become "not only information experts but essential AI facilitators and navigators." Student press coverage in May 2026 profiled University Libraries' AI engagement, directing readers to the AI: Tips & Tools research guide (Collegiate Times, May 7, 2026).

VIII. INFRASTRUCTURE & STRATEGIC INVESTMENT SIGNALS

Innovation Campus and Academic Building One

The Virginia Tech Innovation Campus in Alexandria opened Academic Building One to students in January 2025 — an 11-story, 300,000-square-

foot facility at Potomac Yard/National Landing. The Alexandria Economic Development Partnership describes the campus as a \$1 billion investment from the Commonwealth of Virginia, the City of Alexandria, Boeing, Northrop Grumman, and other partners. AI/ML is the first-listed of five research areas on the institute's site (AI/ML, Wireless and Next Gen Technology, Quantum Computing, Computer Systems, and Intelligent Interfaces). At full buildout, the campus is to "graduate 750 master's students annually" and "host more than 100 doctoral students and post-doctoral fellows" (AEDP).

In May 2025, Virginia Tech announced the formation of the Institute for Advanced Computing as a university-level thematic institute housed at Building One. The institute manages Master of Engineering programs in computer science and computer engineering and serves as a cross-cutting academic and research program. The Sanghani Center for AI and Data Analytics occupies the fifth floor.

The grand opening (February 28, 2025) was attended by Governor Youngkin, Senators Warner and Kaine, and former DARPA director Regina Dugan as keynote speaker.

Data Center Summit (May 2026)

On May 5, 2026, Virginia Tech convened the Data Center Summit at Academic Building One in Alexandria, drawing more than 150 organizations across industry, academia, and government, including AWS, Microsoft, Dell, and Google. The Institute for Advanced Computing organized the event around power capacity, construction at scale, computing workloads, and security and resilience. Kirk Cameron, the institute's managing director, described the summit's purpose as connecting the power supply side of the industry with the compute demand side. VT News coverage positioned the Potomac Yard campus as a natural convening point for the Northern Virginia data center corridor.

Advanced Research Computing

ARC's July 2026 Facilities, Equipment, and Resources document gives unrestricted totals of 632 nodes, 64,736 CPU cores, 514 GPUs, and 360 TB of memory (the September 2025 document gave 570 nodes, 58,784 cores, 497 GPUs, and 272 TB). Key infrastructure for AI workloads includes TinkerCliffs (flagship; ARC documentation lists 332 nodes, 41,600 CPU cores, 130 TB RAM, 112 NVIDIA A100 and 48 NVIDIA H200 GPUs, the H200 nodes installed May 2025), Falcon (GPU cluster online December 2024; ARC documentation lists 106 nodes and 298 GPUs across 32 A30, 20

L40S, 36 V100, and 18 T4 nodes), Owl, the Biomed cluster (NIST 800-171 compliant), and the CUI cluster (partnership with the Hume Center, for ITAR/export-controlled data). ARC's AI-as-a-Service launched March 2025 with the explicit goal of removing barriers (cost, privacy, learning curve) to LLM use in research; its documentation now lists six access paths: the LLM gateway, the LLM API, Open OnDemand, vLLM and llama.cpp jobs under Slurm, and API keys for coding agents and IDEs.

The Owl cluster was expanded in summer 2026 (VT News, August 26, 2026). "The expansion adds 76 CPU nodes each with 96 cores and 768 gigabytes of memory; eight large-memory nodes with three terabytes of memory each; and four GPU nodes equipped with eight NVIDIA B200 GPUs apiece. In total, the expansion brings the total size of the Owl cluster to 17,408 CPU cores, 174 terabytes of memory, and 32 NVIDIA B200 GPUs." The ARC documentation page for Owl gives 16,256 cores and 141 TB; the two institutional sources disagree and both are recorded here. "The expansion was made possible through a \$5 million university investment in fiscal year 2026. Virginia Tech plans to continue supporting the growth of research computing with an additional \$6 million investment in fiscal year 2027." The article states that ARC users grew "approximately 30 percent year-over-year" and GPU utilization "grew by 62 percent in 2025." Alberto Cano, associate vice president for advanced research computing: "The expansion gives Virginia Tech additional flexibility to support a broad range of research, from large-scale simulations to artificial intelligence training and inference, while continuing to manage university resources responsibly." ARC runs a fall 2026 research computing workshop series (September 2 to October 23, twice weekly, via the TLOS PDN) with sessions on GPU essentials, LLM resources and LLM use on ARC systems, and containers.

On August 4, 2026, the National Science Foundation awarded Virginia Tech \$20 million to establish the Virginia Tech Programmable Cloud Laboratory (PCL) Node, "an artificial intelligence (AI)-enabled cloud-based semiconductor laboratory," one of 20 nodes in an NSF network that NSF describes as a core contribution to the federal Genesis Mission. PI: Rose Hu, head of the Bradley Department of Electrical and Computer Engineering. Co-PIs: Wei Zhou (ECE; "special advisor to the senior vice president for research and innovation for AI-guided semiconductor manufacturing and nanotechnology"), Zhenyu "James" Kong (ISE), Matthew Hull (ICTAS Nanoscale Characterization and Fabrication Laboratory), and Alberto Cano (ARC). The award is the largest AI-labeled infrastructure grant

in this inventory. Separately, in April 2026 the Department of Energy selected Virginia Tech and the Southeastern Universities Research Association, through a joint venture named SURATech, to manage and operate the Thomas Jefferson National Accelerator Facility; the announcement names "artificial intelligence, data science, and quantum information" as focus areas, and ground was broken in June 2026 on the Jefferson Lab data center that will house the High Performance Data Facility.

Philanthropic Investment

The Sanghani Center was named through a \$10 million gift from Mehul and Hema Sanghani (2021). Mehul Sanghani, a 1998 VT alumnus, founder of Octo and now founder and managing partner of Greycore Ventures, returned to the Board of Visitors on April 10, 2026, when Governor Spanberger appointed him to complete the late Vice Rector Sandra Davis's term through June 30, 2026, and on April 20, 2026 named him to a full term beginning July 1, 2026 (he served on the board from 2014 to 2022 and chairs the Finance and Resource Management Committee); he is president of the Pamplin Advisory Council; he is a regular presence at VT AI events. Boeing's \$50 million commitment (2021, first foundational IAC partner) and Northrop Grumman's \$12.5 million for quantum information science and engineering represent corporate investment; in June 2026 the Board of Visitors named Kirk Cameron, managing director of the Institute for Advanced Computing, to a Boeing Endowed Professorship "established with a generous gift from The Boeing Company." The Cathie and Tom Woteki Data Science Faculty Fellowships (\$10M commitment to the College of Science and CALS) fund three-year fellowships for data science faculty. The Boundless Impact Campaign raised approximately \$1.877 billion as of June 2025, surpassing its goal two years ahead of schedule. The \$50 million Red Gates Foundation gift to FBRI (September 2023) partially supports computational approaches to brain and addiction research. A \$20 million gift from Salahuddin and May Choudhury to the School of Architecture (July 2026) carries no AI or technology language.

Research Frontiers

The Office of Research and Innovation identifies "Harnessing Artificial Intelligence for Intelligence Augmentation" as a Research Frontier — a strategic growth area at the intersection of VT strengths and external funding. The AI Frontier page aggregates research stories, faculty expertise, and positions VT's footprint spanning Blacksburg and the D.C.

metro area. The Sanghani Center serves as the organizational anchor. The framing of AI for "intelligence augmentation" rather than replacement is consistent with the "Human-Centered Benefit" principle.

Continuing and Professional Education

VT Continuing and Professional Education operates two AI professional development partnerships.

The Virginia Tech AI & Machine Learning Bootcamp (powered by Fullstack Academy) covers statistics, Python, applied data science, machine learning, deep learning, NLP, generative AI, agentic AI frameworks, and MLOps. The program page as of September 2026 lists 23 weeks part-time, \$4,995 upfront or \$5,995 in four installments, and a cohort running October 5, 2026 to March 29, 2027 (the April 2026 page listed 26 weeks at \$6,995).

The Applied Agentic AI: Systems, Design & Impact program (10 weeks, in partnership with Simplilearn, announced April 2, 2026) covers agent coordination, multi-agent orchestration, communication protocols, and planning systems. Targets product managers, designers, and tech leaders. Offers joint VT-Simplilearn digital badges and Microsoft Learn credentials, with access to 25+ tools and frameworks including LangChain, AutoGen, CrewAI, and Hugging Face. Listed at \$2,999 with admission for the fall cohort closing September 29, 2026.

IX. PUBLIC STATEMENTS & EXECUTIVE SIGNALING

President Tim Sands

Sands has positioned AI as a strategic institutional priority across a seven-year arc. In 2018, he announced the Innovation Campus with machine learning and artificial intelligence as core disciplines. In a VEDP interview, he stated: "They all involve at the core new disciplines like machine learning, artificial intelligence, but also the human factors piece of that. I think it's really important to get into the ethics, the policy piece."

In November 2024, Sands hosted Northeastern University President Joseph Aoun for a Presidential Speaker Series conversation on AI and higher education. In framing the event, Sands articulated a workforce-readiness position: "Students are now entering a workforce where AI is assisting or assuming some traditional work streams. We need to not only teach students how to navigate their evolving fields, but also keep the conversation around AI human-centered. President Aoun has proved himself very knowledgeable in this regard." During the conversation itself, Sands

asked: "Where do you think we're headed in the next five to 10 years with AI? I think there are still questions about what it means to be human."

In his December 2024 semester-end message, Sands referenced the IAC opening and the Aoun conversation as "setting the stage for a conversation about Virginia Tech's vision for the future." In his December 2025 year-end message, he stated: "We will have opportunities to think more broadly about artificial intelligence and how to lead the development of AI that augments human intelligence and creativity. This will be a key driver of our continuing focus on Bridge Experiences, project-based learning, and impactful research."

On March 31, 2026, Sands welcomed OpenAI Vice President for Science Kevin Weil to Academic Building One. Sands stated: "Our goal is greater than simply producing talent and technology. It is our responsibility as a university to ask deeper questions. How do we ensure innovation benefits society? How do we train students to think critically about the tools they build?"

On April 9, 2026, Sands announced that he will step down "in the coming months," after twelve years as president, and will serve until a successor is in place. The release did not address the reasons for the departure. U.S. Senator Tim Kaine issued a statement the same evening saying the announcement had "the earmarks of previous well-publicized efforts to oust Presidents" at VMI, UVA, and George Mason, and urged Governor Spanberger to intervene. The AI Futures Working Group is his last structural AI act as president. In spring 2026 he appointed the group; on August 20, 2026 the university published its vision statement; and in his fall 2026 welcome message (August 24, 2026) he wrote: "Last spring, I appointed the AI Futures Working Group co-chaired by Rishi Jaitly, professor of practice in the College of Liberal Arts and Human Sciences, and our new dean of the College of Engineering, Warren Dixon. Over the summer, the Working Group drafted a differentiating vision statement and embarked on defining guardrails and operative principles for our institution. This fall they will engage the campus more broadly." The same message cites "the establishment of an interdisciplinary AI minor, and the launch of HokieAI, a new university-supported artificial intelligence platform available to students, faculty, and staff." The welcome message devotes its substantive section to AI: "AI is fraught with challenges, but its emergence is also a generational opportunity and responsibility for Virginia Tech to fulfill its role as an institution committed to elevating the human condition with a service mindset. We have an opportunity to shape the interface

between humans and machine intelligence, to participate in the establishment of principles and guardrails, and to ensure that the transformational tools of AI are available to everyone." In the vision announcement, Sands stated: "AI has the potential to enhance the impact of human creativity and the value of human-centered skills such as adaptability, communication, critical thinking, leadership, and collaboration. These skills are best advanced in a residential campus environment with guardrails, guidance, and interdisciplinary flexibility, and our engaging presences in the communities we serve." Jaitly, as co-chair: "We're living through 'future of' times, during which weighty questions about the future of learning, leadership, and so much more are in the air. I'm proud that, at Virginia Tech, our heritage and history offer us the opportunity to center humanity as we contemplate the role of AI in our service mission." Dixon, as co-chair: "Our work at Virginia Tech is to provide a cultural framework around AI so that faculty, staff, and students embrace AI as an enabler to enhance human capability while preserving the values, creativity, and judgment that make our communities strong."

The sequence across Sands' tenure runs from the 2018 Innovation Campus announcement, through the 2024 workforce-readiness framing and the 2025 responsible-use framework, to a 2026 vision statement built on "AI-fluency and ethical responsibility" and a presidential working group that, per the August 24, 2026 welcome message, spent the summer "defining guardrails and operative principles." Whether the next president keeps the group, its charge, or its co-chairs is not addressed in the April 9 announcement, the August 20 vision announcement, the August 24 welcome message, or the Cardinal News search coverage.

Former Provost Cyril Clarke

Cyril Clarke served as Executive Vice President and Provost from 2019 until January 2026; he announced in May 2025 that he would step down and return to the faculty, and served until Julie Ross took office. He co-charged the AI Working Group with COO Amy Sebring. At the Atlas of AI Summit in September 2024, Clarke articulated a workforce-readiness framing that explicitly tied AI to curricular reform: "If you are prepared to accept the premise that AI is going to substantially change the nature of work — and in my view, that's an established premise — then you have to understand that universities such as ours have to integrate through an entire curriculum, across all student experiences, the skills and the knowledge necessary to live and be productive in a world of AI." Thirteen months later, when the Responsible and Ethical AI Framework was released in October 2025,

Clarke's framing shifted to governance vocabulary, stating that implementation includes "AI literacy training programs, policy and procedure updates, governance structure establishment, and expanded access to approved AI tools and resources." The two statements together — same provost, different venues, different frames — capture the gap between the executive workforce-readiness narrative articulated in 2024 and the responsible-use governance product that followed in late 2025.

Atlas of AI Summit (September 27, 2024)

Hosted by Virginia Tech at Capital One Hall in Tysons Corner. Subtitle: "Data, Trust, and the AI of Everything." Supported by VT Innovation and Partnerships and the Office of Research and Innovation. Emceed by Rishi Jaitly, founder and leader of VT's Institute for Leadership in Technology and Senior Advisor to OpenAI. Jaitly framed the convening: "We're less than 24 months into this AI-ascendant era. It's time to kind of take a step back and, as this summit's title indicates, develop an atlas or a map, take stock of the entire ecosystem." Speakers included Provost Clarke (workforce-readiness quote above), U.S. Senator Mark Warner ("I know that we've got to get it right — that's why these forums are so terribly important"), and leaders from Capital One, AWS, OpenAI, Deloitte, NVIDIA, *The Washington Post*, the U.S. Army, and the IRS. The summit also featured Ted Talk-style presentations including one by Yi Yeng, a VT PhD student whose work on AI guardrails was featured in *The New York Times*. The Atlas of AI Summit is the largest external AI convening documented in this inventory before the framework's release, occurring approximately one year before the institutional Responsible and Ethical AI Framework was released.

EVP and COO Amy Sebring

Sebring co-charged the AI Working Group and endorsed the framework upon publication (October 2025). Her statement is quoted in Section I.B.

EVP and Provost Julie Ross

Ross assumed the provost role in January 2026 after serving as Dean of Engineering (2017 to 2025). She contributed substantively to launching the Institute for Advanced Computing. The first AI statement from Ross as provost identified in this inventory came with the August 23, 2026 HokieAI announcement: "HokieAI offers significant opportunities for faculty to enhance teaching, learning, and research activities and to reimagine student engagement and discovery. Recognizing these tools require thoughtful and responsible use, our faculty can approach experimentation and innovation within a new and dynamic environment while protecting

academic integrity, privacy, intellectual property, and data security." No standalone AI governance statement from her provost tenure has been publicly documented. She inherits the AI Framework implementation and oversees TLOS, CETL, and the Office of Undergraduate Curriculum. The VT News HokieAI feature and the provost's office page both use "Julie."

SVP for Research and Innovation Daniel Sui

Sui oversaw ORI, including SIRC, VTIP, and OESRC, and chaired VTIP, from 2020 until September 2026. He identified the AI Research Frontier. On September 24, 2026, the university announced that he "is transitioning to a new role with the university and will serve as special assistant to Virginia Tech President Tim Sands," and "will return to the faculty in Virginia Tech's College of Natural Resources and Environment with a focus on GEO AI, world models, and geospatial intelligence." Kevin Pitts, dean of the College of Science, becomes interim vice president for research and innovation on September 28, 2026. The announcement credits Sui with the four Research Frontiers (AI, health, security, quantum), the National Security Institute and the Institute for Advanced Computing, and growth in extramural research expenditures "from \$325 million in 2020 to a record \$493.9 million in 2025." He has taught an Honors course on the future of work addressing humans and machines. He is a VASEM member and published on smart technologies led by AI, ML, and data science. No standalone public AI governance statement from Sui was identified during his tenure.

Provost-Level AI Operations

Juan Espinoza, Vice Provost for Enrollment Management, has been the most publicly vocal administrative leader on AI deployment, leading the admissions AI essay reader program and speaking to the Associated Press, VPM, US News, and other outlets. The essay reader debuted for Fall 2025 admissions: developed over three years by Hickman, Hopkins, and Espinoza; uses three LLMs trained on past applicant essays and the admissions rubric; scans ~250,000 essays in under an hour; saved approximately 8,000 hours of reader time; delivered early action decisions about one month ahead of prior years. External criticism has noted a policy gap: VT uses AI to evaluate essays but has not explicitly addressed whether applicants may use AI to write them.

Rob Hopkins II holds the title "Assistant Vice Provost, Analytics & AI" within the Office of Analytics and Institutional Effectiveness — the only VT administrative title containing "AI" identified in this inventory.

Dean-Level Engagement

Public AI-specific statements were not identified from the following deans: Mario Ferruzzi (CALS), Lu Liu (AAD), M. Daniel Givens (VMCVM), Rebecca Bott (Honors), and Frances Keene (Student Affairs). Three deans moved onto the record between April and September 2026. Laura Belmonte (CLAHS) addressed AI in her commencement address to the Class of 2026 (the college promotes the clip as "What AI can't do but a liberal arts grad can"; the full remarks are available only as a Facebook video). Lee Learman (VTC SOM) said at the April 21, 2026 dedication of the Jeffrey Modell Center for Informatics and Data Science: "This center represents an important step forward for our school and is a milestone marking our progress applying AI in health care." Warren Dixon, dean of the College of Engineering from July 10, 2026, co-chairs the AI Futures Working Group and is quoted above. Saonee Sarker (Pamplin), whose September 2026 speaker biography states "the ambition to become an AI-native business college," and Kevin Pitts (College of Science), now interim research vice president, are the deans with the most documented public AI engagement. Tyler Walters (Libraries) has made public AI statements. Aimée Surprenant (Graduate School) co-authored the GenAI statement.

Board of Visitors

The Board of Visitors has endorsed AI investment through the Beyond Boundaries strategic plan, philanthropic acceptance (Sanghani naming gift, Boeing, Northrop Grumman), and approval of the M.S. Data Science and Innovation Campus programs. In April 2026 the board elevated Naren Ramakrishnan to University Distinguished Professor, with Sands stating that his "expertise and leadership in AI and machine learning places Virginia Tech at the forefront of this rapidly evolving field." Mehul Sanghani's return to the board in April 2026 (interim seat April 10; full term from July 1, 2026; prior service 2014 to 2022) creates a direct philanthropic-governance connection. The board is conducting the presidential search that follows Sands' April 2026 announcement. No standalone BOV resolution or policy action on AI governance was identified.

X. EVIDENCE ARCHIVE

Section I — Governance Architecture

Central AI information hub — homepage (last updated September 23, 2026).

<https://ai.vt.edu/>

Former governance page address; as of 2026 it serves the rewritten governance content (see /about/governance.html below).

<https://ai.vt.edu/governance.html>

Seven core principles with expandable implementation language.

<https://ai.vt.edu/principles.html>

Working Group membership by department — confirms group disbanded.

<https://ai.vt.edu/ai-group.html>

Full framework report PDF with appendices (policy gap analysis, pilot results, assessment).

[https://ai.vt.edu/content/dam/ai_vt_edu/Responsible-and-Ethical-AI-Framework-for-Virginia-Tech-\(v1.0-Sep-2025\).pdf](https://ai.vt.edu/content/dam/ai_vt_edu/Responsible-and-Ethical-AI-Framework-for-Virginia-Tech-(v1.0-Sep-2025).pdf)

Framework announcement — October 2025 news release.

<https://news.vt.edu/articles/2025/10/provost-evpc00-ai-report.html>

External coverage with Raymond quotes on framework development.

<https://www.edtechinnovationhub.com/news/ai-working-group-at-virginia-tech-establishes-guidelines-for-the-ethical-and-responsible-use-of-ai>

DoIT FY2025 annual report AI section — Cano quote and AI innovation positioning.

<https://it.vt.edu/resources/annual-report/2025/featured-highlights/AI-innovation.html>

AI governance page, rewritten April 30, 2026; committee "will serve as a formal standing working committee" and "will establish domain-focused subgroups."

<https://ai.vt.edu/about/governance.html>

AI at Virginia Tech about page (August 2026); committee remit summary.

<https://ai.vt.edu/about.html>

AI Futures Working Group page, Office for Strategic Affairs (updated August 31, 2026).

https://strategicaffairs.vt.edu/AI_Futures.html

Vision statement announcement with full working group membership, August 20, 2026.

<https://news.vt.edu/articles/2026/08/virginia-tech-sets-course-for-human-centered-ai-leadership.html>

President Sands fall 2026 welcome message: working group timing, AI minor, HokieAI (August 24, 2026).

<https://news.vt.edu/articles/2026/08/cm-president-welcome-message-fall2026.html>

DoIT AI tools flyer, August 10, 2026: committee "Formed in late 2025."

https://ai.vt.edu/content/dam/ai_vt_edu/Ai-Flyer-8-10-2026.pdf

Provost weekly update, March 30 to April 3, 2026: AI working committee reviewed Google AI tools.

<https://www.provost.vt.edu/provost-weekly-updates/weekly-march-30-april-3-2026.html>

Sands announcement that he will step down, April 9, 2026.

<https://news.vt.edu/articles/2026/04/president.html>

Sui transition to special assistant; Pitts interim research vice president (September 24, 2026).

<https://news.vt.edu/articles/2026/09/senior-vice-president-for-research-and-innovation-transitions-to.html>

Secondary coverage of the AI vision announcement (EdTech Innovation Hub, August 26, 2026).

<https://www.edtechinnovationhub.com/news/virginia-tech-adopts-universitywide-human-centered-ai-vision>

Section II — Policy Infrastructure

TLOS GenAI guidance page — includes AI detection position and Honor Code interpretation. Updated August 17, 2026; still names Copilot as the only tool licensed for all.

<https://tlos.vt.edu/resources/generative-ai.html>

Graduate School GenAI statement — co-authored by Surprenant and Pike.

<https://tlos.vt.edu/resources/generative-ai/graduate-school-statement.html>

SIRC Document 1 — "Guidance: Using Artificial Intelligence During Research Activities" (January 2024, SIRC-0031).

<https://www.research.vt.edu/research-support/forms-guidance/sirc/guidance-using-artificial-intelligence-during-research-activities.html>

SIRC Document 1 PDF — full text.

https://www.research.vt.edu/content/dam/research_vt_edu/sirc/files/sirc-guidance-for-ai.pdf

SIRC Document 2 — "Considerations for the Responsible and Ethical Use of AI" (drafted November 25, 2025; last revised May 19, 2026).

<https://www.research.vt.edu/research-support/forms-guidance/sirc/considerations-responsible-ethical-use-ai.html>

Academic Advising HIHO framework — "Responsible Use of AI in Advising" (last updated February 2026).

<https://advising.vt.edu/advising-resources/responsible-use-of-ai-in-advising.html>

Engineering IT AI resources page — security and data-handling guidelines for the College of Engineering.

<https://it.eng.vt.edu/articles/ai-resources.html>

Risk classification standards PDF — three-tier system for AI tool procurement.

https://it.vt.edu/content/dam/it_vt_edu/policies/Virginia-Tech-Risk-Classifications.pdf

Syllabus requirements with AI language — Honor Code guidance for faculty.

<https://honorsystem.vt.edu/resources/syllabus.html>

AI guidance index (updated August 8, 2026).

<https://ai.vt.edu/guidance.html>

Data risk classification guidance with tier examples and Cloudforce agreement language (August 8, 2026).

<https://ai.vt.edu/guidance/data-risk.html>

AI resources page (June 10, 2026); lists VCE-1213, the Libraries page, and the August 2026 tools flyer.

<https://ai.vt.edu/guidance/resources.html>

SIRC forms and guidance index assigning SIRC-0031 to the Considerations document (modified March 12, 2026).

<https://www.research.vt.edu/research-support/forms-guidance/sirc.html>

Section III — Teaching & Learning

TLOS GenAI guidance page — faculty AI guidance and training modules.

<https://tlos.vt.edu/resources/generative-ai.html>

AI Undergraduate Curriculum Development Grants — OUC/CETL/TLOS joint program, grant structure and timeline.

<https://www.undergraduate.provost.vt.edu/ouc/ai-undergraduate-curriculum-development-grants.html>

Summer 2024 faculty cohort resource site — sample syllabi, reflective essays, and AI teaching practices.

<https://aiteaching.vt.domains/>

Cohort membership — named participants by college.

<https://aiteaching.vt.domains/about-this-site/>

Traci Gardner WAC/AI resource — 250+ educational resources for teaching writing with AI.

<https://teachingwacwithai.tracigardner.com/>

AWAC Statement on AI and Writing Across the Curriculum — Gardner co-author.

<https://wacassociation.org/ai-statement/>

Rolai pilot details — Canvas integration, instructor selection, and timeline.

<https://tlos.vt.edu/training-tools/rolai-test.html>

2026 AI Teaching Symposium notice — theme, call for proposals, and organizational support.

<https://news.vt.edu/notices/2026/04/provost-tlos-ai-symposium.html>

Kim/Klopfer GenAI study coverage — VT News on the *Innovative Higher Education* publication.

<https://news.vt.edu/articles/2025/01/cnre-generative-ai.html>

CETL workshops page — spring 2026 AI-specific sessions.

<https://teaching.vt.edu/programs/workshops.html>

Libraries AI tips and tools guide — curated aggregation of institutional, state, and federal guidance.

<https://guides.lib.vt.edu/ai/guidance>

AI curriculum grants past recipients: 29 funded proposals by college.

<https://undergraduate.provost.vt.edu/ouc/ai-undergraduate-curriculum-development-grants/ai-grant-recipients.html>

Interdisciplinary AI minor announcement, June 14, 2026 (Julien, Loeffert quotes).

<https://news.vt.edu/articles/2026/06/eng-cs-interdisciplinary-minor-for-all-launching-soon.html>

AI minor, undergraduate catalog 2026-2027: structure and credit requirements.

<https://catalog.vt.edu/undergraduate/minors/artificial-intelligence-minor/>

Department of Computer Science AI minor page: enrollment and declaration dates.

<https://website.cs.vt.edu/academic/undergraduate/future-undergrads/ai-minor.html>

2026 AI Teaching Symposium event page: venue, keynote, formats.

<https://event.fourwaves.com/aiteaching>

CETL Welcome Back Symposium, August 21, 2026: AI sessions.

<https://teaching.vt.edu/programs/welcome-back-symposium.html>

TLOS Professional Development Showcase, April 21, 2026: Teaching with AI track.

<https://tlos.vt.edu/about/events/showcase.html>

CETL AI resources hub (last modified February 23, 2026).

<https://teaching.vt.edu/hub/ai-resources.html>

Section IV — Tool Ecosystem & Pilots

Approved AI tools page — centrally vetted platforms with risk classifications and access details. Last updated September 23, 2026.

<https://ai.vt.edu/tools.html>

Pilot programs page — links to findings reports for ChatGPT Edu, M365 Copilot, and Rolai.

<https://ai.vt.edu/pilots.html>

ChatGPT Edu pilot findings report PDF.

https://ai.vt.edu/content/dam/ai_vt_edu/ChatGPT-Edu-Pilot-Findings-Report.pdf

ChatGPT Edu beneficial use cases report PDF.

https://ai.vt.edu/content/dam/ai_vt_edu/ChatGPT-Edu-Beneficial-Use-Cases-Report.pdf

Microsoft 365 Copilot pilot outcome report PDF.

https://ai.vt.edu/content/dam/ai_vt_edu/Virginia-Tech-Pilot-for-Microsoft-Copilot-Outcome-Report-04-2025.pdf

Copilot pilot DoIT coverage — FY2025 annual report section.

<https://it.vt.edu/resources/annual-report/2025/featured-highlights/copilot.html>

ChatGPT Edu pilot details page — enrollment, risk classification, and feedback requirements.

<https://tlos.vt.edu/training-tools/chatgpt-edu-pilot.html>

ChatGPT Edu usage guide — confirms extension through 2026.

https://4help.vt.edu/sp?id=kb_article&sysparm_article=KB0015426

ARC LLM Gateway documentation — web interface, API access, and Open OnDemand options.

https://docs.arc.vt.edu/ai/010_llm_arc_vt_edu.html

ARC AI documentation hub — AI-as-a-Service overview and usage guides.

https://docs.arc.vt.edu/zz_ai.html

ARC LLM launch announcement — March 2025 news release.

<https://news.vt.edu/articles/2025/04/arc-llm-generative-ai-services.html>

VMock access page — Career and Professional Development resume tool.

<https://career.vt.edu/channels/resume-cv/>

Google AI tools announcement — IT Security Office and AI Working Committee review, high-risk data approval.

<https://news.vt.edu/notices/it/2026/03/it-google-ai-tools.html>

HokieAI platform page: models, eligibility, data protections (last modified September 2, 2026).

<https://ai.vt.edu/tools/hokieai.html>

DoIT notice: HokieAI now available, August 10, 2026 (Cloudforce NebulaONE, metering, trial period).

<https://news.vt.edu/notices/2026/08/it-hokieai-available.html>

HokieAI feature article, August 23, 2026 (Pitt, Harris, Bateson, Ross quotes; SIRC and TLOS roles).

<https://news.vt.edu/articles/2026/08/hokieai-access.html>

HokieAI drop-in office hours page.

<https://ai.vt.edu/tools/hokieai/hokieai-hours.html>

PDN course: AI at Virginia Tech, A Primer for HokieAI.

<https://profdev.tlos.vt.edu/courses/ai-at-virginia-tech-a-primer-for-hokieai>

TLOS Top 10 for Fall 2026: Panopto migration (August 13, 2026).

<https://tlos.vt.edu/resources/top10.html>

Section V — Academic Integrity

Office of Undergraduate Academic Integrity — home page.

<https://honorsystem.vt.edu/>

Syllabus requirements — includes AI language and faculty guidance.

<https://honorsystem.vt.edu/resources/syllabus.html>

Honor Code policy — full text of the Undergraduate Honor Code.

https://honorsystem.vt.edu/honor_code_policy_test.html

Sanctions — F default and escalation procedures.

https://honorsystem.vt.edu/honor_code_policy_test/sanctioning.html

Student resources — Academic Integrity Education Program.

https://honorsystem.vt.edu/resources/information_for_students.html

Graduate Honor System — case review and faculty guidance reliance.

<https://graduateschool.vt.edu/academics/expectations/graduate-honor-system.html>

Section VI — Research Governance

SIRC Document 1 — six-role responsibility framework for AI in research.

<https://www.research.vt.edu/research-support/forms-guidance/sirc/guidance-using-artificial-intelligence-during-research-activities.html>

SIRC Document 2 — research lifecycle considerations and GAIDeT framework application.

<https://www.research.vt.edu/research-support/forms-guidance/sirc/considerations-responsible-ethical-use-ai.html>

SIRC guidance announcement — VT Notice on SIRC-0031.

<https://news.vt.edu/notices/research-artificial-intelligence-guidance-for-researchers.html>

AI principles — IP language ("We will closely monitor...").

<https://ai.vt.edu/principles.html>

IP policy (Policy 13000) — no AI-specific provisions.

<https://www.policies.vt.edu/13000.pdf>

VTIP overview — Salmon leadership and LINK/LICENSE/LAUNCH structure.

<https://link.vt.edu/vtip.html>

Libraries page linking USPTO guidance — Inventorship Guidance for AI-Assisted Inventions.

<https://guides.lib.vt.edu/ai/guidance>

Section VII — Library

AI: Tips & Tools from Your Librarians research guide.

<https://guides.lib.vt.edu/ai/guidance>

VT prompt library — specialized prompt collection for LLM fine-tuning and instructional use (VT access).

<https://promptlibrary.cdrs.lib.vt.edu/>

Libraries AI guide home (updated September 23, 2026): data advisory, AI Support Group.

<https://guides.lib.vt.edu/ai/home>

Libraries AI guide tools page: approved, low-risk-only, and library-licensed tools.

<https://guides.lib.vt.edu/ai/picks>

CDRS Collaborative Research Grant 2026 awards (May 19, 2026).

<https://lib.vt.edu/center-for-digital-research-and-scholarship/program/grant-page/awards>

Center for Digital Research and Scholarship: AI initiative and mission language.

<https://lib.vt.edu/center-for-digital-research-and-scholarship.html>

CDRS Distinguished Lecture, Responsible AI at the Library of Congress (April 24, 2026).

<https://calendar.lib.vt.edu/event/16608930>

CDRS Distinguished Lecture, Disciplinary Thinking as AI Literacy (August 28, 2026).

<https://calendar.lib.vt.edu/event/17353439>

JLARC study of AI in Virginia higher education (HJ 32, 2026 Session); VPM coverage, September 22, 2026.

<https://www.vpm.org/general-assembly/2026-09-22/ai-higher-education-jlarc-laufer-pennock-heny-uva-seshaiyer-gmu/>

Section VIII — Infrastructure & Strategy

Institute for Advanced Computing home page.

<https://iac.vt.edu/>

IAC AI/ML research pillar.

<https://iac.vt.edu/research-areas/research-ai-ml.html>

ARC compute infrastructure — cluster specifications, GPU counts, and node details.

<https://arc.vt.edu/services/compute.html>

ARC Facilities, Equipment, and Resources document (September 2025, PDF) — standardized description for grant proposals.

<https://www.docs.arc.vt.edu/mou/arc-fer-2025-long-v02.pdf>

AI Research Frontier page — "Harnessing AI for Intelligence Augmentation" and faculty expertise.

<https://www.research.vt.edu/initiatives/research-frontiers/artificial-intelligence.html>

AI/ML Bootcamp — Fullstack Academy partnership; 23 weeks part-time per the September 2026 program page (26 weeks in the spring 2026 version).

<https://bootcamp.cpe.vt.edu/programs/ai-machine-learning>

Agentic AI partnership announcement — Simplilearn/VT 10-week program (April 2026).

<https://www.prnewswire.com/news-releases/simplilearn-launches-applied-agentic-ai-systems-design-impact-program-in-partnership-with-virginia-tech-302732935.html>

Owl cluster expansion, August 26, 2026: node counts, B200 GPUs, FY26 and FY27 investment.

<https://news.vt.edu/articles/2026/08/research-computing-owl-expansion.html>

ARC Facilities, Equipment, and Resources document, July 2026.

<https://www.docs.arc.vt.edu/files/arc-fer-2026-long.pdf>

ARC Owl documentation page (core and memory totals differ from the news release).

<https://docs.arc.vt.edu/resources/compute/01owl.html>

Fall 2026 research computing workshop series notice (September 21, 2026).

<https://news.vt.edu/notices/2026/09/fall-research-computing-workshop-series.html>

\$20 million NSF Programmable Cloud Laboratory Node, August 4, 2026.

<https://news.vt.edu/articles/2026/08/NSF-grant-semiconductor-lab.html>

DOE selects Virginia Tech and SURA (SURATech) to operate Jefferson Lab, April 27, 2026.

<https://news.vt.edu/articles/2026/04/science-Jefferson-Lab.html>

Jefferson Lab data center groundbreaking for the High Performance Data Facility, June 2026.

<https://news.vt.edu/articles/2026/06/research-high-performance-data-facility-jefferson-lab.html>

Kirk Cameron named Boeing Endowed Professor, June 30, 2026.

<https://news.vt.edu/articles/2026/06/kirk-cameron-named-boeing-professor.html>

Applied Agentic AI course page (price and admission deadline).

<https://courses.cpe.vt.edu/applied-agentic-ai-course-certification>

Choudhury gift to the School of Architecture, July 2026.

<https://news.vt.edu/articles/2026/07/choudhury-gift.html>

Section IX — Executive Signaling

Sands/Weil at IAC — OpenAI Leaders+ Discussion (March 2026).

<https://news.vt.edu/articles/2026/03/OpenAI-event.html>

Sands/Aoun Presidential Speaker Series — AI and higher education conversation (November 2024).

<https://news.vt.edu/articles/2024/11/president-discussion-ai-higher-ed.html>

Sands/Aoun event preview (November 12, 2024) — Sands workforce-readiness quote framing the fireside chat.

<https://news.vt.edu/articles/2024/11/president-pres-aoun-conversation.html>

Atlas of AI Summit (September 27, 2024 at Capital One Hall) — VT News coverage with Clarke workforce-readiness quote, Jaitly framing, Warner statement, and full participant roster.

<https://news.vt.edu/articles/2024/09/atlas-of-ai-summit-uses-power-of-place-to-convene.html>

Atlas of AI Summit event page (Innovation and Partnerships) — Clarke and Sui speaker bios and program description.

<https://www.vt.edu/link/events/ai-summit.html>

Sands December 2024 semester-end message — IAC opening and vision for the future.

<https://news.vt.edu/articles/2024/12/president-fall-semester-end-2024.html>

Sands December 2025 year-end message — AI augmenting intelligence and creativity.

<https://news.vt.edu/articles/2025/12/president-decembermessage.html>

Sebring framework endorsement — October 2025 news release.

<https://news.vt.edu/articles/2025/10/provost-evpc00-ai-report.html>

Ross appointment announcement — January 2026 provost transition.

<https://news.vt.edu/articles/2025/11/president-ross.html>

Sands VEDP interview — 2018 AI framing for the Innovation Campus.

<https://www.vedp.org/news/tim-sands-bold-vision-virginia-tech>

Admissions AI essay reader announcement — July 2025 news release with process details.

<https://news.vt.edu/articles/2025/07/admissions-changes-2025.html>

Admissions FAQ — Hickman background, development timeline, and fairness testing.

<https://news.vt.edu/articles/2025/07/admissions-updatesFAQ-2025.html>

VPM coverage — Espinoza interview and AP syndication (December 2025).

<https://www.vpm.org/news/2025-12-02/college-admissions-artificial-intelligence-virginia-tech-juan-espinoza>

US News coverage — national admissions AI reporting (December 2025).

<https://www.usnews.com/news/best-states/virginia/articles/2025-12-02/ai-may-be-scoring-your-college-essay-welcome-to-the-new-era-of-admissions>

IMSA Acronym coverage — student journalism perspective on VT admissions AI (March 2026).

<https://sites.imsa.edu/acronym/2026/03/31/colleges-are-using-ai-to-read-your-application/>

Hickman faculty profile — I-O psychology and ML background.

<https://support.psyc.vt.edu/users/louishickman>

GradPilot analysis — external criticism and policy gap observation.

<https://gradpilot.com/ai-policies/virginia-tech>

Harberson critique — admissions policy gap commentary.

<https://www.saraharberson.com/blog/virginia-tech-ai-announcement>

Ramakrishnan elevated to University Distinguished Professor, April 2026 (Sands quote).

<https://news.vt.edu/articles/2026/04/naren-ramakrishnan-honored-as-university-distinguished-professor.html>

Jeffrey Modell Center dedication, April 21, 2026 (Learman AI quote).

<https://news.vt.edu/articles/2026/04/medical-school-launches-first-data-science-focused-center-on-imm.html>

CLAHS commencement clip: Belmonte on what AI cannot do (video; full remarks not published as text).

<https://www.facebook.com/VTLiberalArts/videos/2416742112157467/>

Wells Fargo speaker series announcement with Sarker biography ("AI-native business college") and Sanghani BOV membership (September 23, 2026).

<https://news.vt.edu/articles/2026/09/pamplin-wells-fargo-distinguished-speaker-series-mission-generation.html>

Cardinal News on the Sands step-down announcement, April 9, 2026.

<https://cardinalnews.org/2026/04/09/tim-sands-to-step-down-as-president-of-virginia-tech/>

Cardinal News on presidential finalist interviews, September 18, 2026.

<https://cardinalnews.org/2026/09/18/interviews-for-virginia-techs-next-president-to-take-place-in-coming-weeks/>

Q&A: the AI slowdown debate (Townsend, Saad, Myers), September 16, 2026.

<https://news.vt.edu/articles/2026/09/artificial-intelligence-slowdown-guardrails-technology.html>

Virginia State Context

Virginia AI strategy coverage — Commonwealth AI Task Force, statewide approach across education, workforce, and government.

<https://www.govtech.com/artificial-intelligence/with-plans-for-all-sectors-virginia-aims-to-get-ahead-of-ai>

VASEM State of AI in the Commonwealth report reference — 2025 legislative document.

<https://rga.lis.virginia.gov/Published/2025/RD18>

VT News: Board of Visitors appointments, April 2026 (Sanghani served 2014-22; interim seat completing Davis term; full terms from July 1).

<https://news.vt.edu/articles/2026/04/bov-2026-appointments.html>

Board of Visitors member page: Mehul Sanghani (appointed April 10, 2026; Finance and Resource Management Committee Chair).

<https://bov.vt.edu/MemberBio?BoardMemberId=54>

Governor of Virginia release, April 20, 2026: four appointees to the Virginia Tech Board of Visitors.

<https://www.governor.virginia.gov/newsroom/news-releases/2026/april-releases/name-1116611-en.html>

Cardinal News, April 22, 2026: Spanberger names four to the Board of Visitors ahead of the presidential search.

<https://cardinalnews.org/2026/04/22/spanberger-names-4-to-virginia-tech-board-of-visitors-ahead-of-presidential-search/>

House Joint Resolution 32 (2026 Session): JLARC study of AI in Virginia higher education.

<https://lis.blob.core.windows.net/files/1215170.PDF>

ai.vt.edu AI Futures Working Group navigation entry (redirects to Strategic Affairs).

<https://ai.vt.edu/about/ai-futures-working-group.html>

Division of IT: Artificial Intelligence (AI) Working Committee page (co-chairs, members, terms, charge; modified August 7, 2026).

<https://it.vt.edu/partnerships/university-partnerships/information-technology-governance/working-committees/ai-committee.html>

Governor's press release on Executive Order 51 (July 11, 2025) — agentic AI regulatory reduction pilot and quadrennial review requirement.

<https://www.arlnow.com/press-releases/governor-glenn-youngkin-issues-executive-order-51-launching-first-in-the-nation-agentic-artificial-intelligence-ai-empowered-statewide-regulatory-review/>

Virginia LIS bill record for SB384 (2026) — JCOTS independent verification organization study, signed April 13, 2026; identical to HB797.

<https://lis.virginia.gov/bill-details/20261/SB384>

Office of the Provost weekly update (March 16-20, 2026) — DoIT guidance approving built-in Zoom and Microsoft Teams AI assistants and disallowing third-party AI meeting assistants on VT networks.

<https://www.provost.vt.edu/provost-weekly-updates/weekly-march-16-20-2026.html>

IT News notice on AI meeting assistants (April 1, 2026) — permitted and prohibited tools and rationale.

<https://it.vt.edu/it-news.html>

VT News: DPLA grant for the Metadata Remediation and AI-Enhanced Workflow Pilot (March 18, 2026; Wen Nie Ng).

<https://news.vt.edu/articles/2026/03/univlib-ai-digital-curation.html>

VT News on the Data Center Summit (May 2026) — 150+ organizations at Academic Building One, IAC organizing role, and Cameron framing.

<https://news.vt.edu/articles/2026/05/data-center-summit-industry-government-partnerships.html>

Data Center Summit event page — summit framing, themes, and format.

<https://partnerships.vt.edu/networking/industry-engagement/data-center-summit.html>

VT News: Executive Vice President and Provost Cyril R. Clarke to step down, return to faculty (May 2025).

<https://news.vt.edu/articles/2025/05/president-clarke-announcement.html>

PART II — Unit Dossiers

Each unit dossier follows a six-part structure: Governance & Policy, People, Teaching & Curriculum, Tools & Technology, Research & Scholarship, and Events & Programming.

Unit 1. College of Agriculture and Life Sciences (CALS)

Unit 2. College of Science (CoS) and Academy of Data Science

Unit 3. Pamplin College of Business

Unit 4. College of Engineering and Sanghani Center

Unit 5. College of Liberal Arts and Human Sciences (CLAHS) + School of Education

Unit 6. College of Natural Resources and Environment (CNRE)

Unit 7. Virginia Cooperative Extension (VCE)

Units 8/15. Virginia Tech Carilion School of Medicine and Fralin Biomedical Research Institute

Unit 9. College of Architecture, Arts, and Design (AAD)

Unit 10. Virginia-Maryland College of Veterinary Medicine (VMCVM)

Unit 11. University Libraries

Unit 12. Graduate School

Units 13/14. Virginia Transportation Institute (VTI) and National Security Institute / Hume Center

Unit 16. Honors College

Unit 17. Division of Information Technology / CIO Office

Unit 18. TLOS (Technology-enhanced Learning and Online Strategies)

Unit 19. Center for Excellence in Teaching and Learning (CETL)

Unit 20. Office of Research and Innovation (ORI)

Unit 21. Institute for Advanced Computing (IAC) and Alexandria Campus

Unit 22. Investment Institutes (ICAT, ICTAS, Fralin Life Sciences, ISCE)

Units 23-24. Student Affairs, Enrollment Management, and Administrative Units

Unit 1. College of Agriculture and Life Sciences (CALS)

Key Signals: CALS houses three of Virginia Tech's most distinctive AI research platforms — a worldwide-unique cyberbiosecurity water lab, a 120-location agricultural sensor network, and a Google-partnered AI analytics platform for global productivity. No college-level AI policy, AI task force, or faculty guidance on generative AI was identified in public sources. The gap between research intensity and governance investment is wider here than at any other heavy-signal college in this inventory.

Nine departments and schools. Approximately 3,100 students. CALS administers the Virginia Agricultural Experiment Station (VAES) and co-administers Virginia Cooperative Extension (VCE) with Virginia State University, extending the college's reach from Blacksburg's research labs to 108 Extension offices across the Commonwealth. No public AI-specific statement from Dean Mario Ferruzzi was identified. The college's AI story is told by its researchers and its infrastructure, not its administrators.

1.1 Governance & Policy

No CALS-specific AI policy, AI task force, or AI position statement has been publicly documented. The college follows the university-wide Responsible and Ethical AI Framework (see Part I, Section I). The Center for Advanced Innovation in Agriculture (CAIA), which provided research infrastructure without issuing AI use guidance, no longer exists as a center: its homepage now carries the banner "CAIA is now the CALS Office of Research and Innovation!" and the ORI page states that CAIA "has transitioned into the CALS Office of Research and Innovation (CALS ORI), continuing its commitment to advancing research, fostering collaboration, and supporting faculty, staff, and student innovation across the College of Agriculture and Life Sciences." The ORI programming page names the Susan E. Duncan Innovation in Agriculture and Life Sciences Seed Grant, grant administration, and faculty resources; apart from an image captioned "Smart Farm in Danville" and a link to CAIA's history, the ORI pages carry no AI, data analytics, or cyberbiosecurity language. The CAIA homepage banner announcing the transition carries a December 3, 2025 modification date, so the change was public before April 2026. No CALS representative sits on the university's AI Futures Working Group.

The only CALS-adjacent AI policy document is Virginia Cooperative Extension's Generative AI Guidance (VCE-1213), a practical operational guide for Extension personnel documented in Unit 7. That document recommends Microsoft Copilot through Edge, restricts use of confidential data, and provides a model disclosure statement. CALS itself has not replicated any of these provisions at the college level.

Cross-reference: University-wide governance framework, risk classification, and research compliance — Part I, Sections I, IV, and VI.

1.2 People

Mario Ferruzzi — Dean. No public AI-specific statement identified. Chairs the College of Engineering dean search committee (2026).

Susan Duncan (1959-2022) — Founding Director of CAIA. Professor of Food Science and Technology; Associate Director of VAES. Launched CAIA in January 2021. Duncan was instrumental in establishing VT's cyberbiosecurity research agenda and the SmartFarm Innovation Network's copyright-protected brand. She died suddenly on October 12, 2022, at age 63. The Susan E. Duncan Innovation in Agriculture and Life Sciences Seed Grant was created in her honor, jointly funded by VT-ARC, ICAT, and CALS ORI.

Robin White — Associate Professor, School of Animal Sciences; CAIA Associate Director (the CAIA "who we are" page, not updated for the center's transition into CALS ORI, still carries the title and an "FY24 Organizational Structure"). Coordinated interdisciplinary research efforts, CAIA industry affiliates, and the CAIA Graduate Student Affiliate Group. The CAIA website directs faculty interested in affiliation to contact White. Research spans precision livestock sensors, data analytics, and sustainable food production. Projects include a microscopic robotic sensor for beef cattle nutrient intake measurement (collaboration with the College of Engineering), sensor-equipped halters for real-time environmental and behavioral data from horses and cattle (\$350K CALS award), and precision feeding using individual animal efficiency data with ML-based group identification.

Kang Xia — Associate Director of CAIA. Professor, School of Plant and Environmental Sciences. Named in Duncan's memorial coverage as a center leader following her death. The title predates the center's transition into CALS ORI.

CALS Office of Research and Innovation — Will Singer, Managing Director; Timothy Jarome, Interim Assistant Director of CALS Research (Professor, Neurobiology); Dorsey Massey, Program Manager. Contact calsori@vt.edu. The office's public pages carry no AI programming.

CALS administration (administration page dated April 24, 2025) — Mary Burrows, Associate Dean of Research and Director of Agricultural Experiment Station; Michael Gutter, Associate Dean, Director of Virginia Cooperative Extension; Renee Boyer, Assistant Dean of Graduate Research Programs; Ryan Wellar, Interim Director of Information Technology. No public AI statement from any of them was identified.

Feras A. Batarseh — Associate Professor, Department of Biological Systems Engineering (jointly administered by CALS and the College of Engineering). Directs the ACWA Lab and the A3 Lab. Affiliated with the Commonwealth Cyber Initiative in Northern Virginia. Chairs the academic committee of the Food and Agriculture Information Sharing Analysis Center (Food & Ag ISAC), where Virginia Tech is a founding member of the University Partner Program alongside Iowa State, Nebraska, and Purdue. Chaired the 2024 AAAI Fall Symposium on "Using AI to Build Secure Food and Agriculture Systems." Appeared on VT's "Curious Conversations" podcast (October 2024) discussing AI and water security.

Batarseh's 2025 publications include a review of cybersecurity incidents in food and agriculture (*Journal of Agriculture and Food Research*), trustworthy object detection using crowds-in-the-loop (*ACM Transactions on Cyber-Physical Systems*), K-9 handler AI teaming for collaborative sensemaking (ACM IUI '25), and generative adversarial networks for water systems data fidelity (*IEEE Access*). His publication record spans 50+ works touching AI, water, agriculture, cyberbiosecurity, and policy, with multiple authored books including *AI Assurance* (Academic Press, 2022). The book anchors the lab's theoretical framework: AI systems in high-stakes domains must be "valid, verified, data-driven, trustworthy and explainable to a layman, resilient against adversaries, robust within its domain, ethical in the context of its deployment, unbiased in its learning, and fair to its users." In 2026 he is described as associate professor in Biological Systems Engineering and the Commonwealth Cyber Initiative, with research areas of "artificial intelligence assurance, intelligent water systems, cyberbiosecurity, and AI for agriculture policy," and as having conducted water and agricultural security research in Qatar through a Fulbright scholarship. Three VT News items between July and August 2026 carry his

work (see 1.5). A3 Lab collaborators named in 2026: Lauren Pincus (Ph.D. student) and Dan Sobien (research associate).

Brian Mayer — Research Scientist, Sanghani Center. Serves on CAIA's executive committee as the liaison between the Sanghani Center and CAIA. Also part of the Sanghani team on NSF-funded timber traceability data science research with Naren Ramakrishnan.

Tom Thompson — Associate Dean and Director of CALS Global. Professor of Agronomy. Leads the GAP Initiative and the development of GAP IQ. \$87M+ in extramural competitive funding.

Song Li — Associate Professor, School of Plant and Environmental Sciences. CAIA affiliate. Develops ML methods to identify gene regulatory networks in plant stress responses and sensing technology for early detection of plant diseases. Develops autonomous robots using LIDAR for crop growth measurement. 4,380+ citations (Google Scholar).

Le Wang — Professor, Department of Agricultural and Applied Economics; David M. Kohl Chair. Director of the Data Science for the Public Good (DSPG) program, which trains students in applied data science for public policy and community decision-making.

Susan Sumner — Associate Dean and Director of Academic Programs. Oversees the Discovery Lab's administrative relationship to CALS.

Anne Brown and **Rich Helm** — Associate Professors, Biochemistry. Faculty leads of the Discovery Lab. Helm: the lab emphasizes generating and analyzing quantitative data because "as machine learning and artificial intelligence move forward, it is important for students to understand what quality data looks like and how it is generated." Brown was named to the National Academies' New Voices in Sciences, Engineering, and Medicine cohort for 2026-28 (VT News, August 2026); she was a 2023 Data Science Faculty Fellow and holds a 2022 NSF CAREER award, and her research "uses computational modeling and data science."

Emmanuel Torres Quezada — Extension specialist, Eastern Shore Agricultural Research and Extension Center. Uses drones with multispectral cameras for crop stress identification and irrigation management.

Other CALS faculty with documented AI/ML research activity include **Vitor Mercadante** (robotic sensor platform and ML for dairy health diagnostics), **Fernando Biase** (data analytics for cattle infertility), **Sally Johnson** (computer learning for equine diets), and **David Schmale** (autonomous

drone-based atmospheric microbial sampling; \$12M+ in sponsored research; SmartFarm-adjacent).

1.3 Teaching & Curriculum

CALS does not offer AI-specific courses or a college-level AI curriculum initiative. Its teaching contributions operate through infrastructure and experiential learning rather than formal coursework.

Discovery Lab

A 6,000+ square-foot undergraduate research facility in the Undergraduate Science Laboratory Building. Opened Fall 2025 with \$1.4 million in state-of-the-art equipment. Includes two wet labs, a dirty lab, and designated spaces for microscopy, data analytics, 3D printing, fabrication, and collaboration. The data analytics space is outfitted with three desktop analytical machines for computational work, database generation, and machine learning. Administratively housed in CALS with support from the Office of Academic Affairs, the Academy of Experiential Learning, and the Fralin Life Sciences Institute. Faculty-guided but student-led; peer leaders guide cohorts of undergraduates through research projects that build the quantitative literacy AI applications require. An open house was held October 3, 2025.

Data Science for the Public Good (DSPG)

Housed in Agricultural and Applied Economics under Le Wang. Trains undergraduate and graduate students in applied data science for community-serving research. The program connects CALS students to real-world policy questions using data analytics methods that overlap with AI/ML workflows, though it is not marketed as an AI program.

No CALS faculty AI teaching guidance has been publicly documented beyond the university-wide resources provided by TLOS and CETL (see Units 18-19).

1.4 Tools & Deployed AI Platforms

SmartFarm Innovation Network

Announced in May 2019 and operated through CAIA. Connects approximately 120 locations across Virginia: the Blacksburg campus, 11 Agricultural Research and Extension Centers, and 108 VCE local offices. The network develops and deploys drones, sensors, robotics, AI/ML tools, data analytics, IoT, and biodesign technologies for agricultural efficiency, resilience, and sustainability. Thirteen new SmartFarm faculty positions

were being filled as of 2021. As of 2022, more than 148 CAIA affiliated faculty from across campus study topics ranging from AI for cyberbiosecurity to drone-based crop monitoring. Faculty span departments including aerospace and ocean engineering, sociology, statistics, entomology, and dairy science. On the ground, this looks like Torres Quezada at the Eastern Shore AREC using drones with multispectral cameras for crop stress identification, or Schmale (\$12M+ in sponsored research) sampling atmospheric microbes with autonomous drones and modeling pathogen transport with data analytics.

ACWA Lab

The AI and Cyber for Water and Agriculture Lab opened in 2023 in the Human and Agricultural Biosciences Building. Described as the first lab in the world to combine cyberbiosecurity and AI automation for water security research. Directed by Batarseh. The lab's cyber-physical testbed includes computational clusters, GPUs, sensors, water tanks, pumps, valves, pipes, and soil beds — all designed to simulate cyberattacks on water supply, distribution, and treatment systems and develop AI-powered defenses.

Batarseh's work operates at two levels. Practically, his team partners with water treatment facilities like AlexRenew in Alexandria to optimize pollutant discharge using AI-powered predictive baselines — work with both environmental and financial implications (utilities below EPA thresholds earn tradeable credits; those above get penalized). AlexRenew has offered the ACWA lab real-time data moving forward. Strategically, Batarseh chairs the Food & Ag ISAC academic committee. Agriculture ranks as the seventh-most attacked cyber sector, and the ISAC's director has noted that many small farms lack any IT staff. Batarseh's team fills that gap with AI algorithms delivered through the SmartFarm network and Extension system. The lab also maintains a GPS cyberthreat detection project for farm machinery.

The ACWA team won first place in the national Intelligent Water Systems Challenge (recognized by the Water Environmental Foundation and the EPA) and publishes open-access datasets on GitHub (AI-VTRC/ACWA-Data).

GAP IQ

A next-generation AI-powered data intelligence platform for agricultural productivity decision-making, developed by CALS Global in partnership with Google Public Sector and Appnovation. The platform uses AI-driven analytics for real-time trend exploration, policy option modeling, and investment scenario analysis, with generative AI trained on trusted

agricultural data sources. GAP IQ was unveiled at the 2025 GAP Report launch on October 1, 2025, at Google's Fulton Market Chicago office, where working sessions also used Google's Agentspace tool for co-creation of data-driven policy messaging.

The 2025 GAP Report, produced by CALS Global under Thompson with partners including Bayer, Corteva, Mosaic, Syngenta, John Deere, Purdue University, CGIAR, and The Nature Conservancy, includes a chapter titled "AI in Agriculture: Driving System Integration for the Next Productivity Frontier." The report found global agricultural TFP growth has dropped to 0.76% annually over the past decade, barely a third of the 2% target needed to meet mid-century demand. AI is positioned as central to closing that gap.

Controlled Environment Agriculture Innovation Center (CEA-IC)

A partnership between VT, the Institute for Advanced Learning and Research, and industry. Hosts the annual CEA Summit East (fourth year in 2025, Danville, VA). Research on data-driven indoor growing environments intersects with CAIA's AI portfolio.

Institutional AI tools (Copilot, ChatGPT Edu, etc.) are documented in Part I, Section IV.

1.5 Research & Scholarship

CAIA

Founded in January 2021 by Susan Duncan around three pillars: data analytics, cyberbiosecurity, and the SmartFarm Innovation Network. Grew to more than 148 affiliated faculty from departments as varied as aerospace engineering, sociology, statistics, entomology, and dairy science. Led after Duncan's death by Robin White and Kang Xia as Associate Directors; transitioned into the CALS Office of Research and Innovation (see 1.1). The CAIA homepage carries a banner announcing the transition; the CAIA "who we are" page has not been updated to reflect the ORI structure.

The Duncan Innovation Seed Grant requires transdisciplinary teams from at least two fields and gives preference to projects integrating agriculture/life sciences with arts, creativity, and design. Review committee includes representatives from CALS ORI, ICAT, and VT-ARC. The 2026 cycle: applications due February 2, 2026; awards announced by March 21, 2026; projects run July 2026–June 2027.

A3 Lab: 2026 Water, Agriculture, and Semiconductor Research

A causal AI model of competition for water between agriculture and semiconductor manufacturing was published in the *Journal of Water Resources Planning and Management* on June 16, 2026 ("Evaluating the Impact of Semiconductor Facilities and Agricultural Irrigation on Water Risk in the United States," Batarseh, Pincus, Sobien). VT News (July 2026): the team "analyzed semiconductor facilities, irrigation patterns, and water stress indicators across all 50 states," and "the team's causal AI model identifies cause-and-effect relationships between water availability, crop needs, semiconductor expansion, and regional basins." Batarseh: "the goal is not choosing between farms and fabrication plants but finding smarter ways to support both." Funding is not stated in any version of the release.

A July 2026 expert piece with Craig Ramseyer (Geography, CNRE) addressed AI and drought prediction. Batarseh: "Data has become as critical to water security as reservoirs." Ramseyer: "AI tools are only as good as the data we can put into them." An August 24, 2026 media advisory framed water systems as a cyber warfare target: "From home drinking supply and food production to microchip manufacturing and cooling systems for data centers, water systems are an essential yet underprotected target"; "agriculture is the fastest rising cybercrime target, as well as one of the least technologically fortified"; "Large municipal water systems may be able to afford a cyber chief, but the same isn't true for the many, many more smaller systems." The advisory notes the exposure of water used to cool data centers "here in data center-rich Virginia."

Joseph Oakes (Eastern Virginia AREC superintendent and Extension specialist) leads drone-based remote sensing research on wheat planting dates with VCE agents Robbie Longest and Turner Minx (VT News, August 26, 2026), developed under a USDA multistate grant and the Virginia Small Grains Board. The methods are data-driven; the release does not label them AI. No 2026 edition of the GAP Report or GAP IQ update appeared on the GAP Report pages cited in this dossier as of the evidence snapshot date.

CAIA-Sanghani Joint Graduate Research Assistantship Program

Launched 2024. Provides scholarships for Ph.D. students conducting research at the nexus of agriculture, AI, and data analytics. Students are co-mentored by one CAIA affiliate and one Sanghani Center faculty member for up to two years. This is the only documented cross-center AI training pipeline in the inventory.

The first two scholarship recipients (2024 cohort): Hyunwoo Kim, co-mentored by Venkat Sridhar (BSE/CAIA) and Anuj Karpatne (CS/Sanghani),

researching integration of physics-based hydrological models with ML/deep learning for agricultural climate change impacts; and Runing Yang, co-mentored by Haibo Huang (FST/CAIA) and Ming Jin (ECE/Sanghani), researching LLM methods for agricultural data processing and causal inference.

CALS Integrated Seed Grant Program (2026)

Ten interdisciplinary research teams awarded a combined \$650,000, co-sponsored by VAES, VCE, CNRE, the College of Science, the College of Engineering, and the Virginia-Maryland College of Veterinary Medicine. Proposals were selected based on how effectively they combined research with Extension outreach. One AI-specific award: "AgriMind: A multi-modal AI framework for weather-robust and market-adaptive precision agriculture" (PI: Jian Ni, Pamplin; Co-PIs: Zhenshan Chen, Agricultural and Applied Economics; Joseph Oakes, Eastern VA AREC; Abhilash Chandel, Tidewater AREC; Lecheng Zheng, Pamplin). Cross-college AI seed funding of this kind is uncommon in this inventory.

NSF Convergence Accelerator Grant (\$750K)

Awarded March 2023 to CAIA and VT Applied Research Corporation. PI: Matt Wolfe (VT-ARC VP of Technology). Purpose: enhance vegetable production and food security through precision agriculture, AI/ML-based analysis, and workforce training for underserved rural producers. Phase 2 potential: up to \$5M.

ACWA Lab Research

Partnerships with AlexRenew detailed in Section 1.4. Food & Ag ISAC founding membership. Key publications span cyberbiosecurity in water systems, AI-driven cyber-physical testbeds, deep learning for cyber attack detection in water distribution systems, causal AI for water system dependencies, and AI for agricultural trade policy (published by Springer, ASCE, Elsevier, ACM, IEEE, and IWA Publishing, 2022–2025).

Precision Livestock Research

White's group and collaborators apply sensor-based data collection and ML to animal health monitoring, including hyperspectral image classification for mastitis detection and pregnancy establishment in dairy cows (Mercadante).

Song Li's ML for Plant Systems

Develops machine learning models for gene regulatory networks in plant stress, and autonomous robotics with LIDAR for crop phenotyping. Develops

portable devices combining mobile phone applications, spectral filtering lenses, and miniature microscopes for field-based disease detection using ML.

AI Adoption Research (Cross-Reference)

Maaz Gardezi (Associate Professor, School of Public and International Affairs, CLAHS) led a 2026 study of 2,000+ Certified Crop Advisors evaluating AI-enabled decision support systems for agriculture. Published in *Technological Forecasting and Social Change* (May 2026). NSF and USDA funded. VT graduate students Indunil Dharmasiri, Pablo Carcamo, and Bhavna Joshi were co-authors. The study found crop advisors prefer AI tools that augment rather than replace professional judgment and identified data ownership as a pivotal adoption factor. Primary documentation is in Unit 5.

1.6 Events & Public Engagement

2024 AAI Fall Symposium: "Using AI to Build Secure Food and Agriculture Systems" (November 2024, Arlington, VA). Chaired by Batarseh, co-chaired by Frank Stein (Research Faculty, NSI Intelligent Systems Division). National-level event convening academic, government, and industry stakeholders. Served as the first in-person meeting between the Food & Ag ISAC's industry members and VT researchers.

Batarseh "Curious Conversations" Podcast (October 2024). Discussed AI and water security, intelligent water systems, and cyberbiosecurity.

2025 GAP Report Launch (October 1, 2025, Google Fulton Market, Chicago). Featured GAP IQ demo and working sessions using Google's Agentspace. Positioned CALS Global as a global convener on AI-enabled agricultural productivity.

CEA Summit East (fourth year, September 2025, Danville, VA). Governor Youngkin delivered the opening keynote at a previous edition.

No other CALS-specific AI events were identified in public sources.

Gaps and Observations

CALS presents an instructive asymmetry: its research infrastructure is among the most AI-intensive at Virginia Tech, but its governance and teaching infrastructure is essentially absent. No CALS-specific AI policy, task force, faculty guidance, or required AI literacy component was identified in public sources. The Discovery Lab was designed with AI-readiness in mind but is framed around data quality rather than AI skills.

The gap between CALS's research ambition and its student-facing AI posture is wider than at any other heavy-signal college in this inventory.

Dean Ferruzzi's silence on AI contrasts with the public engagement of Pamplin's Dean Sarker and the College of Science's Dean Pitts. CAIA, the one college structure that could have carried an AI agenda, has been folded into a research administration office whose public pages say nothing about AI. Batarseh is CALS's most visible AI voice, and in 2026 the most prolific: three institutional news items in two months. His platform is research releases and media advisories, not institutional governance.

The CAIA-Sanghani joint graduate program, the Food & Ag ISAC founding membership, the NSF Convergence Accelerator grant, and the new AgriMind cross-college seed grant all suggest a college building cross-institutional research capacity at scale. Whether that research capacity translates into teaching and governance investments remains to be seen.

Cross-References

- **College of Engineering / Sanghani Center (Unit 4):** CAIA-Sanghani joint graduate program. Mayer liaison. Karpatne co-mentors Kim. Jin co-mentors Yang. Ramakrishnan-Mayer timber traceability project. Batarseh joint appointment in BSE (CALS/CoE).
- **Pamplin College of Business (Unit 3):** Jian Ni (Pamplin PI) on AgriMind seed grant with CALS co-investigators.
- **CLAHS / School of Public and International Affairs (Unit 5):** Gardezi AI adoption study with VT grad students.
- **ICAT (Unit 22):** Duncan Seed Grant co-funded by ICAT. CAIA-ICAT partnership on agriculture-arts integration.
- **VCE (Unit 7):** SmartFarm network extends to 108 VCE offices. VCE GenAI Guidance is the only CALS-adjacent policy.
- **NSI (Unit 14):** Frank Stein co-chaired 2024 AAAI symposium with Batarseh.
- **CoS / Center for Ecosystem Forecasting (Unit 2):** Karpatne's physics-guided neural networks connect CAIA hydrology work to ecosystem forecasting. Sridhar (BSE/CAIA) collaborates with Karpatne on Kim's research.
- **Innovation Campus (Unit 21):** GAP IQ and CALS Global operate at global scale.
- **Part I, Section II.C:** VCE Generative AI Guidance (VCE-1213) documented as supplemental guidance.

Sources

CAIA homepage — center overview, mission, navigation to research pillars and affiliate directory.

<https://caia.cals.vt.edu/>

CAIA affiliate faculty directory — leadership (White, Xia), 148+ affiliated faculty, industry affiliates, graduate student affiliate group.

<https://caia.cals.vt.edu/who-we-are.html>

CALS homepage — college overview, departments, enrollment, Extension footprint.

<https://www.cals.vt.edu/>

CALS departments and schools listing.

<https://www.cals.vt.edu/departments-and-school.html>

VT News on CAIA founding (January 2021) — Duncan's vision, three research pillars, SmartFarm announcement.

<https://news.vt.edu/articles/2021/01/cals-center-for-advanced-innovation-in-agriculture.html>

VT News memorial for Susan Duncan — founding director's role in CAIA, cyberbiosecurity research, SmartFarm brand. Documents Xia's transition to associate director.

<https://news.vt.edu/articles/2022/10/cals-sueduncan.html>

Batareseh faculty page — research interests, lab affiliations, CCI connection, book publications.

<https://www.bse.vt.edu/about/people/faculty/feras-batareseh.html>

Song Li faculty page — ML for plant gene regulatory networks, LIDAR robotics for crop phenotyping, portable disease detection devices.

<https://spes.vt.edu/faculty-staff/faculty/li-song.html>

Song Li CAIA affiliate profile — research description and CAIA connection.

<https://caia.cals.vt.edu/who-we-are/affiliate-members/song-li.html>

Data Science for the Public Good (DSPG) program page — Le Wang directorship, student training in applied data science for community research.

<https://aaec.vt.edu/academics/undergraduate/dspg.html>

VT News on the Discovery Lab (October 2025) — 6,000 sq ft facility, \$1.4M equipment, data analytics section, Helm quote on AI-readiness, student-led model.

<https://news.vt.edu/articles/2025/10/discovery-lab-virginia-tech.html>

Discovery Lab spaces page — detailed room-by-room description including data analytics machines and fabrication areas.

<https://xl.vt.edu/discovery-lab/about-discovery-lab/spaces.html>

A3 Lab research page — Batarseh's full publication list (2017-2025), spanning cyberbiosecurity, water systems AI, agricultural policy, human-AI teaming.

<https://ai.bse.vt.edu/research.html>

VT News on the ACWA Lab (November 2023) — cyber-physical testbed description, team members, EPA/WEF national challenge win, open-access datasets.

<https://news.vt.edu/articles/2023/11/cals-acwa-lab.html>

ACWA Lab open-access datasets — GitHub repository with water system data for AI research.

<https://github.com/AI-VTRC/ACWA-Data>

VT News on CAIA-Sanghani Joint Graduate Assistantship (April 2024) — program structure, first two scholars (Kim, Yang), co-mentorship model, research agendas.

<https://news.vt.edu/articles/2024/04/sanghani-center-and-caia-cultivate-transdisciplinary-research-in.html>

VT News on AlexRenew-ACWA Lab partnership (May 2024) — AI-powered predictive baselines for water treatment, CCI collaboration, real-time data sharing.

<https://news.vt.edu/articles/2024/05/water-treatment-acwa-lab-cci-alexrenew.html>

Susan E. Duncan Innovation Seed Grant — call for proposals, eligibility, review process, 2026 cycle timeline. Jointly funded by VT-ARC, ICAT, and CALS ORI.

<https://icat.vt.edu/funding/susan-duncan-innovation-in-agriculture-and-life-sciences-seed-gr.html>

CALS Integrated Seed Grant 2026 recipients — \$650K across 10 teams including AgriMind AI framework (PI: Ni, Pamplin; Co-PIs from AAEC and ARECs).

<https://www.cals.vt.edu/research/monthly/2026/01/center-spotlights.html>

Gardezi et al. AI adoption study (February 2026) — 2,000+ crop advisors evaluating AI decision support systems. Published in *Technological Forecasting and Social Change*. NSF/USDA funded.

<https://www.eurekalert.org/news-releases/1117798>

VT News on 2025 GAP Report — GAP IQ platform unveiling, Google Public Sector partnership, global TFP data, AI chapter.

<https://news.vt.edu/articles/2025/10/cals-2025-gap-report.html>

2025 GAP Report launch event page — October 1, 2025 at Google Fulton Market Chicago, Agentspace working sessions.

<https://globalagriculturalproductivity.org/2025-gap-report-launch-2/>

GAP Report AI chapter — "AI in Agriculture: Driving System Integration for the Next Productivity Frontier."

<https://globalagriculturalproductivity.org/2025-gap-report/ai-in-agriculture-driving-system-integration-for-the-next-productivity-frontier/>

CEA Innovation Center homepage — CEA Summit East, indoor farming research, VT/IALR/industry partnership.

<https://ceaic.org/>

VT News on Food & Ag ISAC and 2024 AAAI symposium — Batarseh's ISAC role, VT founding membership, agriculture as seventh-most attacked cyber sector, GPS cyberthreat detection.

<https://news.vt.edu/articles/2024/10/fighting-ai-with-ai-water-agriculture-isac.html>

Batarseh "Curious Conversations" podcast (October 2024) — AI and water security, intelligent water systems, cyberbiosecurity.

<https://news.vt.edu/articles/2024/10/research-curiousconversations-batarseh.html>

CALS Magazine feature on CAIA — long-form overview of CAIA's research portfolio, SmartFarm network, precision agriculture, Torres Quezada drone work, Mercadante hyperspectral imaging.

<https://www.magazine.cals.vt.edu/caia.html>

CALS Office of Research and Innovation page: transition statement, staff.

<https://cals.vt.edu/research/ori.html>

CALS ORI programming page (seed and competitive grants; no AI language).

<https://www.cals.vt.edu/research/ori/programming.html>

CALS administration page (2026 associate deans).

<https://www.cals.vt.edu/about/administration.html>

VT News: causal AI model of semiconductor and irrigation water competition (July 2026).

<https://news.vt.edu/articles/2026/05/cals-bse-semiconductors-irrigation-water-resources.html>

EurekaAlert release naming the JWRPM paper and DOI (July 13, 2026).

<https://www.eurekaalert.org/news-releases/1135957>

Expert piece: AI and drought prediction (Batarseh, Ramseyer), July 2026 (Newswise mirror).

<https://www.newswise.com/articles/ai-can-predict-and-plan-ahead-for-drought-with-access-to-the-right-data-experts-say>

Media advisory: water security as the next frontier of cyber warfare, August 24, 2026.

<https://news.vt.edu/articles/2026/08/water-security-next-frontier-cyber-warfare-virginia-tech.html>

VT News: drone-based wheat planting-date research, Eastern Virginia AREC (August 26, 2026).

<https://news.vt.edu/articles/2026/08/cals-wheat-planting-research.html>

VT News: Anne Brown named to National Academies New Voices (August 2026).

<https://news.vt.edu/articles/2026/07/anne-brown-recognized-as-emerging-leader-in-computational-bioche.html>

Unit 2. College of Science and Academy of Data Science

Key Signals: The Academy of Data Science is Virginia Tech's primary cross-university AI/data science infrastructure — it operates degree programs, distributes seed funding to all colleges, and funds faculty fellowships. The Center for Ecosystem Forecasting deploys AI/ML for real-time water quality prediction across three continents. Dean Pitts is, with Sarker, one of the two VT deans with the most documented public AI engagement in this inventory, but his engagement is programmatic, not governance-oriented.

Eight departments (Biology, Chemistry, Economics, Geosciences, Mathematics, Physics, Psychology, Statistics), the School of Neuroscience, the Academy of Integrated Science, and the Academy of Data Science. Approximately 4,300 undergraduates and 600 graduate students. Kevin T. Pitts has served as Lay Nam Chang Dean's Chair since June 2022.

2.1 Governance & Policy

No College of Science-specific AI policy or governance document has been publicly documented. The college follows the university-wide AI framework. The Academy of Data Science operates academic programs and research funding but has not published AI use guidance for faculty or students. No college-level AI task force, position statement, or supplemental guidance comparable to Pamplin's (Unit 3) exists.

Pitts's public AI engagement takes the form of program-level investment rather than governance statements. His quotes center on workforce and program development: "This is about building a program tailored to address critical workforce needs right here in the commonwealth of Virginia" (on the M.S. Data Science launch). "These leadership changes reflect our ambitious plans for the Academy of Data Science. Employers around the Commonwealth of Virginia and the nation are yearning for more hands-on data scientists, and these programs will fill those needs." Neither quote addresses AI governance, ethics, or responsible use. Pitts co-sponsored the VirginiaAI Summit at the Innovation Campus (September–October 2025), positioning the College of Science as a convener rather than a regulator.

The ADSDF, which distributes seed funding for AI/ML projects university-wide, has no published evaluation criteria addressing responsible AI use,

data governance, or ethical review beyond standard VT compliance requirements.

Cross-reference: University-wide AI governance framework, risk classification, and research compliance — Part I, Sections I, IV, and VI.

2.2 People

Kevin T. Pitts — Lay Nam Chang Dean's Chair (since June 2022). Former chief research officer at Fermilab and vice provost for undergraduate education at the University of Illinois. AAAS Fellow, APS Fellow. High-energy physicist (600+ papers, 56,000+ citations). Co-sponsored the VirginiaAI Summit alongside the Sanghani Center and IAC. With Sarker, one of the two deans with the most documented public AI engagement in this inventory. Named interim vice president for research and innovation effective September 28, 2026, succeeding Daniel Sui (see Unit 20); the September 24 announcement does not say how the deanship will be covered. No AI statement from Pitts was found between April and September 2026.

Eric de Sturler — Director, Academy of Data Science (named July 2025). Professor of Mathematics. Research expertise in computational numerical analysis and applied mathematics. Succeeded founding director Tom Woteki, who retired May 2025.

Jennifer Van Mullekom — Associate Director, Academy of Data Science, and M.S. Data Science program director. Professor of Practice in Statistics. Former director of VT's Statistical Applications and Innovation Group (SAIG). Van Mullekom also contributed to the NSI Navy AI Training Program (Unit 13).

Lizette Zietsman — Associate Director, Academy of Data Science; Program Director, Computational Modeling & Data Analytics; Associate Professor of Mathematics. The ADS people page no longer carries the "interim" qualifier that attached to the CMDA directorship in early 2026.

Academy of Data Science professors of practice and staff — Alan Lattimer, Frances McCarty, Scott Mutchler, and Kurt Stein (Associate Professors of Practice); Holly Caldwell (Operations Manager); Melissa McKeown (Communications Manager); Jennifer Pike (Administrative Assistant).

Gretchen Matthews and **Sophia Economou** (Mathematics), with Charles Cao (PI), Arpit Dua, Edwin Barnes, and Giuseppe Cotardo (Physics) — team

on the DOE Genesis Mission project "AI-enabled co-design of fault-tolerant logical interface in quantum LDPC codes," one of 278 projects selected in the program's first wave (VT News, July 22, 2026).

Ionut Farcas — Mathematics. 2025-26 ADS Discovery Fund awardee ("Learning Data-Driven Reduced Order Models for Turbulent Transport in Large-Scale Fusion Simulations"); featured in VT News, June 22, 2026 ("Modeling nuclear fusion at lightning speed").

Cayelan Carey — Professor of Biological Sciences. Co-Director, Center for Ecosystem Forecasting. \$19.6M in external funding, 130+ peer-reviewed publications. Patricia Caldwell Faculty Fellow. Elected to VASEM (2025). Named 2026 Virginia Outstanding Faculty by SCHEV (March 2026). Research integrates AI/ML with sensor technologies and cyberinfrastructure for real-time water quality prediction. Collaborates with Anuj Karpatne (CS/Sanghani) on physics-guided neural networks. Published in *Nature Climate Change* (2024/2025) on scaling near-term ecological forecasting. In September 2025, she described the Center's work as combining "data science and statistics and decision science, geosciences, ecosystem modeling, a range of different researchers coming together" for predictions "truly useful and meaningful for communities." Cross-referenced in the CNRE dossier (Unit 6) through co-director Quinn Thomas.

Yili Hong — Professor of Statistics. Co-director, VT Statistics and Artificial Intelligence Laboratory (VT SAIL). Cathie and Tom Woteki Data Science Faculty Fellow.

Louis Hickman — Assistant Professor, Department of Psychology. Led the admissions AI essay reader research team. Documented in the Student Affairs/Admin dossier (Unit 24) and Part I, Section IX.

Ivan Hernandez — Psychology faculty. ADSDF-funded project on qualitative data synthesis using LLMs and generative AI (with Hickman).

Xinwei Deng — Cathie and Tom Woteki Data Science Faculty Fellow. Statistics faculty.

Leah Johnson — Associate Professor of Statistics. Co-author on *Nature Climate Change* ecological forecasting paper. Center for Ecosystem Forecasting affiliate.

Gretchen Matthews — Professor of Mathematics. Director of CCI Southwest Virginia. ADSDF recipient for data protection research.

Johann Rudi — Mathematics faculty. Awarded Luther and Alice Hamlett Junior Faculty Fellowship (December 2025).

Joseph S. Merola — Professor Emeritus of Chemistry (emeritus status conferred December 2025). Joined VT in 1987 after nine years at Exxon Research and Engineering. Twice served as Faculty Senate President (2013–2014 and 2023–2024). Fellow of the American Chemical Society (2019) and the American Association for the Advancement of Science (2015). Research in transition metal organometallic chemistry for catalysis and antimicrobial applications. As Faculty Senate President during the early generative AI period, Merola became one of the most-quoted VT faculty voices on AI governance ambivalence. In a September 2023 *VT News* article, he framed AI as "a tool" with classroom adoption left to individual faculty: "It is a tool, and it's obviously going to be up to each faculty member to decide, 'Do I want to use it in my class? Do I want to let students use it?' It's an evolving story." In an October 2023 *Collegiate Times* interview, he acknowledged the absence of a settled personal AI policy on the record: "So even though I haven't developed a policy right now, I will probably give them guidance at the end, as they're writing it to tell them what they should and should not do with ChatGPT. And to be honest with you, since it's still something that I am developing in my mind, I'm not really sure what I'm going to say." The two statements together capture the decentralized, faculty-by-faculty approach that VT's institutional governance later formalized.

2.3 Teaching & Curriculum

B.S. in Computational Modeling and Data Analytics (CMDA)

Virginia Tech's undergraduate "Big Data" degree. Collaborative effort of Mathematics, Statistics, and Computer Science departments, housed in the Academy of Data Science. Options include Standard, Biological Sciences, Cryptography & Cybersecurity, Economics, Geosciences, and Physics. CMDA became a restricted major in August 2025, signaling high demand. CMDA 1634 ("Discovering CMDA") introduces ethical considerations in data science. Capstone program partners with external organizations. Principal faculty include Naren Ramakrishnan (Sanghani Center director) and Chris North (CS).

Minor in Data and Decisions (DTDC)

An 18-credit-hour minor open to all majors. Covers data literacy, responsible and ethical data use, and data-driven decision-making.

M.S. in Data Science

Approved by SCHEV January 8, 2025; Board of Visitors approved April 2024. Non-thesis degree housed in the Academy of Data Science. Now in four delivery options: the original 4+1 accelerated format (undergraduates start graduate courses early, finishing the master's in one year after the bachelor's), a part-time hybrid format (Northern Virginia), and beginning Fall 2026, a standard two-year full-time in-person option at the Blacksburg campus. Core curriculum provided by the College of Science and College of Engineering, with CNRE and CALS expected to contribute. The capstone project is completed in the second year. Then-Engineering Dean Julie Ross (now Provost): "This program will complement Virginia Tech's ongoing efforts to train more students in computing, data, artificial intelligence, and related areas."

Macrosystems EDDIE

NSF-funded undergraduate training program affiliated with the Center for Ecosystem Forecasting. Over 100,000 undergraduate students reached at more than 50 universities and colleges globally (VT News, March 2026). Published effectiveness study: "A modular curriculum to teach undergraduates ecological forecasting improves student and instructor confidence in their data science skills" (*BioScience*, 2025, Lofton et al.).

The School of Neuroscience offers a Computational and Systems Neuroscience track, implying ML/computational methods, but no AI-specific research was documented in this sweep.

2.4 Tools & Technology

The Data and Decision Sciences Building (~120,000 gross square feet) houses faculty and classes from multiple colleges (Engineering, Science, Pamplin). It brings together CS, engineering, and data-related disciplines under one roof. The COMPASS Center (\$18M NSF, documented in Unit 4) is headquartered here.

Institutional AI tools are documented in Part I, Section IV.

2.5 Research & Scholarship

Academy of Data Science Discovery Fund (ADSDF)

Seed grants open to all Virginia Tech faculty, not only College of Science. One-year awards: up to \$10K individual, \$20K multi-investigator. Focus areas explicitly include "AI/ML, statistical analysis, national security,

modeling, cyber security." The 2026-27 cycle call closed April 3, 2026.
Contact: Associate Dean for Research John Morris and Academy Director Eric de Sturler.

Funded projects span multiple colleges. Recent awards include: "Using Large Language Models and Generative AI to Scale Qualitative Data Analysis" (PI: Andrew Katz, Engineering Education); "Instreyled: Advancing Fine-grained Data-limited Visual Recognition for Smart Surgical Tray Management" (PI: Chris Thomas, CS; Co-PIs from VTCSOM and BME); tree identification using NIR spectroscopy and ML (PI: Carrie Fearer, CNRE); "Data Science Enabled Polymer Modeling" (PI: Shenfeng Cheng, Physics); "Data Protection through Data Science" (PI: Jason LeGrow, Math; Co-PI: Gretchen Matthews; awarded January 2026); "Enhancing Open Science Data Sharing through the Synthesis of Qualitative Datasets" (PI: Ivan Hernandez, Psychology; Co-PI: Louis Hickman, Psychology); "Adapting Machine-Learning Algorithms to Develop ODE-based Systems Biology Models" (PI: Anand Banerjee, Academy of Integrated Science; Co-PI: Pavel Kraikivski, AIS); and "Bayesian Approaches to Estimating Fluid Domains" (PI: Justin Krometis, NSI/Mathematics; Co-PI: Jeff Borggaard, Mathematics).

Cathie and Tom Woteki Data Science Faculty Fellowships

Funded by a \$10M commitment from Tom and Cathie Woteki to the College of Science and CALS. Three-year fellowships recognizing faculty with data science research and teaching focus. Recipients: Xinwei Deng, Quinn Thomas (CNRE/CoS, Center for Ecosystem Forecasting co-director), and Yili Hong (VT SAIL co-director).

Center for Ecosystem Forecasting

Co-directed by Cayelan Carey and Quinn Thomas (Professor, Forest Resources and Environmental Conservation; joint appointment in Biological Sciences; Cathie and Tom Woteki Data Science Faculty Fellow). The center combines AI, ML, sensor technologies, data analysis, and cyberinfrastructure for real-time water quality prediction. Its FLARE system (Forecasting Lake And Reservoir Ecosystems) collects data from 15 lakes and reservoirs across three continents with daily 30-day forecasts. Partnership with Western Virginia Water Authority for operational water quality management since 2018. Physics-guided neural networks collaboration with Anuj Karpatne (CS/Sanghani, Unit 4). Hosted the Ecological Forecasting Initiative annual meeting at VT (May 2025).

Thomas published *A Practical Guide to Ecosystem Forecasting* (March 2026), an online textbook for the graduate course FREC 5174 that auto-

rebuilds daily using GitHub Actions with live NEON data and NOAA weather forecasts — the textbook itself is an iterative forecast.

Recent publications include "High-frequency monitoring data reveal substantial variability in the intrinsic predictability of ecosystem dynamics" (Carey et al., *Ecology*, 2026), "Harnessing Stability-Guided Interpretable Machine Learning for Understanding and Predicting Water Quality in Freshwater Ecosystems" (Shukla et al., *JGR-Biogeosciences*, 2026), "What can we learn from 100,000 freshwater forecasts?" (Olsson et al., *Ecological Applications*, 2025), and "Cyberinfrastructure to Support Ecological Forecasting Challenges" (Thomas & Boettiger, 2026). NSF funding supports multiple active projects including the Global Center for Freshwater Forecasting planning grant (OISE-2330211) with Australian partners.

VT Statistics and Artificial Intelligence Laboratory (VT SAIL)

Co-directed by Yili Hong. Research on data collection methods, interpretation, and prediction.

2.6 Events & Programming

VirginiaAI Summit (September 30–October 1, 2025). Hosted by VASEM at the Innovation Campus. Co-sponsored by the College of Science, Sanghani Center, and IAC. Theme: "VirginiaAI: Charting the Future of AI in Virginia." Cross-referenced in Unit 22.

Ecological Forecasting Initiative Annual Meeting (May 2025). Hosted by the Center for Ecosystem Forecasting at Virginia Tech.

NSF-Sponsored Summer 2026 AI Camp. "Exploring Artificial Intelligence, Chip Manufacturing, and Physical Computing (IoT)" at Virginia Tech's Potomac Yard campus. Part of the Northern Virginia STEM Learning Network established by VT in 2007.

Jefferson Lab and the High Performance Data Facility

On April 27, 2026, the Department of Energy selected Virginia Tech and the Southeastern Universities Research Association, through a joint venture named SURATech, to manage and operate the Thomas Jefferson National Accelerator Facility; the announcement does not state the contract length. The VT announcement, tagged College of Science, describes the new High Performance Data Facility, "in partnership with Lawrence Berkeley National Laboratory in California," as a "\$300 million-plus computing and data infrastructure resource," and cites alignment with DOE's Genesis Mission, and new focus areas in "artificial intelligence, data science, and quantum

information." Ground was broken June 12, 2026 on the Jefferson Lab data center that will house the HPDF. Christine Julien (Computer Science): "From a computer science perspective, working to catalog this amount of data in a useful manner provides a lot of interesting problems our researchers can help solve." Dean Pitts is not quoted in either release.

ADS Discovery Fund 2025-26 Awards

Three awards not previously documented: "Active Learning Framework to Guide Synthesis of One-Dimensional Quantum Materials" (PI Maitreyee Sharma Priyadarshini, Aerospace and Ocean Engineering; Co-PI Thang Pham, Materials Science and Engineering); "Learning Data-Driven Reduced Order Models for Turbulent Transport in Large-Scale Fusion Simulations" (PI Ionut Farcas, Mathematics); and "Topological Transfer Learning for Monitoring and Forecasting Zoonotic Diseases" (PI Yulia Gel, Statistics; Co-PI James Weger-Lucarelli, Biomedical Sciences and Pathobiology). The 2026-27 awards (call closed April 3, 2026) had not been posted as of the evidence snapshot date. The M.S. Data Science standard-option page states: "Beginning in Fall 2026, Virginia Tech will offer a standard two-year in-person option for the M.S. in Data Science." The program page (August 10, 2026) lists three options: Blacksburg full-time two-year, Accelerated 4+1, and Northern Virginia part-time.

Gaps and Observations

The College of Science controls the institutional machinery of data science at Virginia Tech — degree programs, seed funding, faculty fellowships — but has not used that position to advance AI governance. The ADSDF funds AI/ML projects university-wide without published responsible-use criteria. No College of Science guidance on generative AI in courses was identified.

The Academy of Data Science underwent a leadership transition in mid-2025 (de Sturler succeeded founding director Woteki; Van Mullekom and Zietsman took associate roles, and Zietsman's CMDA directorship is no longer styled interim). Whether the new leadership aligns the Academy's programmatic investment with the university's governance framework remains an open question. The rapid expansion of the M.S. Data Science to four delivery options in under two years signals demand-driven growth that has outpaced governance-setting. The college's dean now holds the interim research vice presidency, which places the ADSDF's funder and the university's research compliance apparatus under the same person for the duration. No College of Science member sits on the AI Futures Working Group, though the university tagged the announcement to the college.

The Center for Ecosystem Forecasting is the college's strongest research story: operational AI deployed in partnership with a public utility, with a publication record that bridges fundamental science and applied water management. Its model of co-produced forecasts with decision-makers parallels CALS's SmartFarm approach but with tighter integration of ML into daily operations.

Cross-References

- **College of Engineering / Sanghani Center (Unit 4):** Ramakrishnan is principal CMDA faculty. Karpatne collaborates with Carey and Thomas. ADSDF funds engineering faculty. COMPASS Center headquartered in the Data and Decision Sciences Building.
- **CNRE (Unit 6):** Quinn Thomas holds joint appointment. Center for Ecosystem Forecasting is a cross-college entity.
- **CALS (Unit 1):** Woteki Fellowships fund CALS faculty. ADSDF funds CALS projects.
- **Pamplin (Unit 3):** Data and Decision Sciences Building houses Pamplin programs.
- **Student Affairs/Admin (Unit 24):** Hickman (Psychology) leads the admissions AI essay reader research.
- **Innovation Campus (Unit 22):** VirginiaAI Summit co-sponsorship. M.S. Data Science offered in hybrid format from Northern Virginia.
- **Part I, Section IX:** Pitts identified as one of the two deans with the most documented public AI engagement.

Sources

Academy of Data Science homepage — Woteki gift announcement, fellowship recipients, program overview.

<https://data.science.vt.edu/>

Academy of Data Science about page — founding in 2020, mission, interdisciplinary scope.

<https://data.science.vt.edu/about.html>

ADSDF overview — award criteria, focus areas (AI/ML, national security, modeling), eligibility rules, past recipients with project descriptions.

<https://data.science.vt.edu/about/ads-discovery-fund.html>

M.S. Data Science program page — three delivery options (4+1, part-time NVA, full-time Blacksburg Fall 2026), capstone structure, faculty.

<https://data.science.vt.edu/programs/ms-ds.html>

M.S. Data Science standard two-year option — Fall 2026 launch at Blacksburg campus, prerequisites, curriculum.

<https://data.science.vt.edu/programs/ms-ds/msds-standard.html>

CMDA program page — undergraduate data science degree, options, restricted major status.

<https://data.science.vt.edu/programs/cmda.html>

CMDA current students page — restricted major announcement (August 2025).

<https://data.science.vt.edu/programs/cmda/current-students.html>

ADSDF 2026-27 call for proposals — due April 3, 2026. Contact: John Morris (Associate Dean for Research), Eric de Sturler (Academy Director).

<https://news.vt.edu/notices/science-adsdf-proposals-2026.html>

VT News on M.S. Data Science SCHEV approval (January 2025) — Pitts, Woteki, Ross quotes on workforce needs and program rationale.

<https://news.vt.edu/articles/2025/01/science-ms-data-science.html>

VT News on Academy leadership transition (July 2025) — de Sturler named director, Van Mullekom named associate director and M.S. program director, Zietsman named interim CMDA director.

<https://news.vt.edu/articles/2025/07/science-ads-updates.html>

Center for Ecosystem Forecasting homepage — mission, FLARE system, 15 lakes across three continents, daily 30-day forecasts, NSF grants.

<https://ecoforecast.centers.vt.edu/>

Center for Ecosystem Forecasting research page — FLARE system details, water quality forecasting methodology, NEON challenge.

<https://ecoforecast.centers.vt.edu/research.html>

Center publications list — 2022-2026 publications including Carey et al. (*Ecology*, 2026), Shukla et al. (*JGR-Biogeosciences*, 2026), Olsson et al. (*Ecological Applications*, 2025).

<https://ecoforecast.centers.vt.edu/publications.html>

Center about page — Carey and Thomas bios, affiliated faculty, research team, Macrosystems EDDIE.

<https://ecoforecast.centers.vt.edu/about.html>

Center projects page — NSF funding details, Western Virginia Water Authority partnership, Global Center for Freshwater Forecasting planning grant (OISE-2330211).

<https://ecoforecast.centers.vt.edu/applications.html>

VT News on Center for Ecosystem Forecasting launch (April 2024) — Carey and Thomas backgrounds, Western Virginia Water Authority partnership origin (2018), Dan Sui remarks.

<https://news.vt.edu/articles/2024/04/cayelan-carey-quinn-thomas-center-ecosystem-forecasting-new.html>

Center for Ecosystem Forecasting video feature (September 2025) — Carey quote on combining "data science and statistics and decision science, geosciences, ecosystem modeling."

https://news.vt.edu/videos/k/2025/09/1_g97ghu88.html

Quinn Thomas faculty page — publications, affiliations, Woteki Faculty Fellow, joint FREC/Biology appointment.

<https://rquinnthomas.com/>

Thomas publications page — full list including 2026 papers on ecosystem predictability and cyberinfrastructure for forecasting challenges.

<https://rquinnthomas.com/publications.html>

A Practical Guide to Ecosystem Forecasting (March 2026) — online textbook for FREC 5174, auto-rebuilds daily with live NEON data and NOAA forecasts via GitHub Actions.

<https://frec-5174.github.io/eco4cast-in-R-book/>

CMDA catalog page (2025-26) — degree requirements, options, Pathway 5 quantitative designation.

<https://catalog.vt.edu/undergraduate/college-science/computational-modeling-data-analytics/>

VT News on VirginiaAI Summit (September 2025) — VASEM event at Innovation Campus, 200+ attendees, co-sponsored by CoS, Sanghani, IAC.

<https://news.vt.edu/articles/2025/09/vasem-summit.html>

NSF Summer 2026 AI Camp announcement — "Exploring AI, Chip Manufacturing, and Physical Computing (IoT)" at Potomac Yard campus, Northern Virginia STEM Learning Network.

<https://novastem.blogspot.com/2025/11/virginia-tech-summer-2026-ai-chip.html>

External coverage of Academy leadership transition — EdTech Innovation Hub on de Sturler, Van Mullekom, M.S. Data Science launch.

<https://www.edtechinnovationhub.com/news/virginia-tech-refreshes-data-science-academy-leadership-launches-new-masters-degree>

VT News on faculty "cautiously optimistic" about generative AI (September 2023) — Merola quote on AI as a tool and faculty autonomy in classroom adoption.

<https://news.vt.edu/articles/2023/09/provost-faculty-generative-AI.html>

Collegiate Times, "Virginia Tech faculty weigh in on ChatGPT and other generative AI" (October 2023) — Merola on developing his AI policy in real time, faculty governance ambivalence.

https://www.collegiatetimes.com/news/virginia-tech-faculty-weigh-in-on-chatgpt-and-other-generative-ai/article_96a4924a-7118-11ee-b1b3-d7e130676679.html

VT News on Merola emeritus status (December 2025) — career summary, Faculty Senate leadership, Department of Chemistry chair, ACS Fellow.

<https://news.vt.edu/articles/2025/12/science-chemistry-merola-emeritus.html>

VT Faculty Senate past presidents page — Merola 2013–2014 and 2023–2024 terms, faculty representative to Board of Visitors.

https://www.facultysenate.vt.edu/about/Faculty-Senate-Past-Presidents/joe_merola_2013-2014.html

Academy of Data Science people page (Zietsman title; professors of practice).

<https://data.science.vt.edu/about/people.html>

VT News: Genesis Mission projects including quantum LDPC codes (July 22, 2026).

<https://news.vt.edu/articles/2026/07/research-genesis-mission.html>

VT News: Farcas fusion modeling feature (June 22, 2026).

<https://news.vt.edu/articles/2026/06/science-modeling-nuclear-fusion-at-lightning-speed.html>

VT News on Carey and Pruden named Virginia Outstanding Faculty by SCHEV (March 2026) — Macrosystems EDDIE reach figure (100,000+ students, 50+ institutions), Carey career summary.

<https://news.vt.edu/articles/2026/03/schev-outstanding-faculty-carey-pruden-bagchi.html>

Unit 3. Pamplin College of Business

Key Signals: Pamplin is the only Virginia Tech college documented in this inventory as having its own AI governance body, position statement, separate research and teaching guidelines, and a mandatory AI literacy requirement for all undergraduates. Dean Sarker has the most documented public AI statements of any VT dean in this inventory; her September 2026 biography states "the ambition to become an AI-native business college." The Pamplin+ curriculum launched in fall 2026 with a required first-year "AI Literacy for Business" course, embedding AI across business education as a structural commitment rather than a course add-on. France Bélanger is the college's member on the university AI Futures Working Group.

Seven departments (Accounting & Information Systems, Business Information Technology, Economics, Finance/Insurance/Business Law, Hospitality & Tourism Management, Management, Marketing). Sixteen majors and nine minors. Programs delivered from Blacksburg, the Innovation Campus in Alexandria, and online. It is the only Virginia Tech college documented as having its own AI governance body, position statement, separate research and teaching guidelines, and a mandatory AI literacy requirement for all undergraduates.

3.1 Governance & Policy

Pamplin AI Taskforce

Created by Dean Sarker in November 2023. The task force submitted its report in April–May 2024. Separately, Jason Malone (Pamplin faculty) sits on the university AI Working Committee (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). Co-chairs: Reza Barkhi (Associate Dean of Strategy, Global Initiatives, and Innovations) and Michelle Seref (Associate Dean for Undergraduate Programs), both confirmed as co-chairs in the author bios of their 2025 *Journal of Macromarketing* commentary on AI in business education. Members include Cara Spicer (Professor of Practice, Finance; Faculty Lead for FinTech and Big Data Analytics), who has served since Fall 2023. A larger roster — likely drawn from the same senior faculty who chair Pamplin's strategic planning teams, including Cindy Devers, Sudip Bhattacharjee, Tom Mayock, France Bélanger, Christopher Porter, Linda Christie, Jim Dickhans, Viswanath Venkatesh, and Onur Seref — has been reported but individual membership has not been independently confirmed from public VT sources. Meeting frequency, governance authority, and formal reporting structure are not

publicly documented. No 2026 document, roster, or report attributed to the task force was found; Seref's directory page (May 2026) does not mention it. The college's leadership page lists a Dean's Cabinet of Bagchi, Barkhi, Ghandforoush, Kleiber, Metz, and Seref, and department heads Read, Davidson, Devers, Kumar, Nottingham, Xiang, and Zhu; Bélanger, named in the reported roster, is now the college's member on the university AI Futures Working Group.

The taskforce produced three documents:

Pamplin AI Position Statement. Full text published in the December 2024 newsletter: "At the Pamplin College of Business, we embrace Artificial Intelligence (AI) as a pivotal emerging technology, akin to the internet and cloud computing in their nascent stages. As we integrate AI into our classrooms and curriculum, we aim to harness its transformative potential for enhancing education and research, while preparing our students for an AI-augmented business landscape. Recognizing the power and responsibility that come with emerging technologies, we stress the ethical use of AI. Our commitment is to educate students in both the technical aspects of AI and the ethical frameworks needed for its responsible application. We strive to balance the enthusiasm for AI's capabilities with an understanding of its limitations, ensuring our graduates are equipped to use AI and other emerging technologies in ways that are beneficial and respectful to society."

AI Research Guidelines. Suggests ways to increase awareness and faculty support for AI applications in research.

AI Teaching Guidelines. Addresses incorporating AI tools into teaching and student preparation. The December 2024 newsletter documents two priorities within curriculum review: "Teaching students how to use AI responsibly and specifying AI expectations in assignment evaluation; Using AI tools for teaching support such as generating example data, creating demo case clients, or answering syllabus questions."

These are the only college-level AI governance documents at Virginia Tech. The institutional AI Working Group and Responsible and Ethical AI Framework are university-wide; Pamplin built supplemental governance on top of that foundation. The full text of the research and teaching guidelines has not been found as standalone public documents.

Sarker at AACSB (March 2024): "I learned that having a task force dedicated to AI — something that we have had since last November — is not common among business schools and that ours is likely to be used as a model by many deans going forward."

France Bélanger (University Distinguished Professor, R. B. Pamplin Professor, Byrd Senior Faculty Fellow, Fellow of the Association for Information Systems) is the only Pamplin member of the university's AI Futures Working Group, appointed in spring 2026 and listed in the August 20, 2026 roster (Part I, Section I.B). No 2026 dean's newsletter was located: guessed addresses in the newsletter series for March through June 2026 return errors, and the newsletter index page loads its listing dynamically, so the absence of 2026 issues could not be confirmed from the page as fetched.

Cross-reference: University-wide AI governance framework — Part I, Section I. Pamplin's position statement and guidelines documented as supplemental guidance in Part I, Section II.C.

3.2 People

Saonee Sarker — Richard E. Sorensen Dean (since July 1, 2023). Former professor of Informatics at Lund University; visiting professor at the London School of Economics; senior associate dean at UVA McIntire School of Commerce (2013–2021). Research: smart infrastructure/sustainability, healthcare IT, technostress, technology-enabled collaboration. The most publicly vocal dean on AI at Virginia Tech. Her September 23, 2026 speaker biography lists her research as "smart infrastructure, responsible digitalization, and AI-human collaboration" and states that she "has helped reshape the college around a more technology-forward vision, including the ambition to become an AI-native business college and the launch of Pamplin+." On the launch (September 8, 2026): "In today's rapidly evolving business landscape, AI literacy has become a fundamental pillar of career readiness. We are ensuring our graduates are not just prepared to adapt but empowered to lead with innovation and confidence."

Cara Spicer — Professor of Practice, Finance. Faculty Lead for FinTech and Big Data Analytics. AI Task Force member (Fall 2023–present). Co-developed the FinTech and Big Data Analytics major.

Michelle Seref — Associate Dean for Undergraduate Programs; Collegiate Professor of Business Information Technology. Co-chair of the Pamplin AI Task Force. Co-author with Reza Barkhi of a 2025 *Journal of Macromarketing* commentary on AI in business education (detailed in Section 3.5). Developed a college-wide pedagogy workshop and teaching committee for faculty training in experiential learning. Coordinates academic and experiential programs for the business school including academic advising, undergraduate research, career services and

professional development, and undergraduate international programs. Students in her coding classes use AI tools to debug, generate code, and analyze outputs. The December 2024 newsletter references "Dean Seref" for Pamplin Plus curriculum planning.

Rajesh Bagchi — Associate Dean for Research. MSI Scholar 2020.

Shane Wang — Professor of Marketing. 2024 MSI Scholar. Research on AI/ML techniques in business and social media analytics.

Shilpa Rao — Marketing faculty. Created MKTG 4114 (Introduction to AI in Marketing, launched 2022). Faculty lead on the Marketing AI Minor. On the rationale: "The idea behind the AI in marketing minor is to ensure that students are at the same pace that the industry is seeking them to be."

Broderick Turner, Ph.D. — Marketing faculty. Taught Responsible AI in the Marketplace (MKTG 4984) in Fall 2024, examining AI through an ethical lens. Published "Hype-Free AI: How AI actually impacts psychology in research, the workplace, the marketplace, and beyond" in *Current Opinion in Psychology* (2024, with Reczek).

Tabitha L. James — R.B. Pamplin Professor, Department of Business Information Technology. PI on the "Judgy AI" research project (CCI-funded). Research on AI judgments and their impact on minorities.

Viswanath Venkatesh — Verizon Professor, Department of Business Information Technology. Co-PI on the "Judgy AI" project. One of the most-cited researchers in information systems. Styled "Verizon Chair of Business Information Technology" by VT News in July 2026. Co-author with Alice Jang (assistant professor, BIT) of a six-experiment *MIS Quarterly* study of "rareness bias diffusion" on social media (VT News, July 16, 2026), which states: "The distortion on social media is not totally driven by the algorithm. Instead, it comes from ordinary human biases that social media compounds into a pattern where rare information gets shared more often."

Reza Barkhi — KPMG Professor of Accounting and Information Systems. Associate Dean of Strategy, Global Initiatives, and Innovations. Previously served as Department Head of Accounting and Information Systems and Director of the Ph.D. program. Co-chair of the Pamplin AI Task Force. Co-author with Michelle Seref of a 2025 *Journal of Macromarketing* commentary on AI in business education (detailed in Section 3.5). Has been an invited speaker for multiple events on AI in teaching and research. Spoke at the Hokies on Wall Street panel on AI curriculum priorities. In his Associate Dean role, leads strategic planning for the college in

undergraduate and graduate education and integrates technology innovation for data-driven decision-making.

Jeffrey Robert — Assistant Professor, Real Estate. Built AI-powered personas for REAL 1024, where students engage with AI simulating town hall discussions on community development.

Jim Dickhans — Director of IT, Pamplin College. Collaborated with Robert on AI-powered classroom personas. Co-chair of the Organizational Excellence strategic planning team.

Jay Winkeler — Director, Center for Business Analytics and MSBA program director.

Mark Michalisin — MKTG 4054 (Sales Technology) has integrated AI based on student recommendations. Students use AI for sales pitches, case study questions, and presentation formulation.

Cindy Devers — R.B. Pamplin Professor of Management. Editor-in-Chief, *Journal of Management*. International Research Fellow, Centre for Corporate Reputation, University of Oxford. Director of Pamplin's Ph.D. Programs. Chairs the Overall Research Excellence strategic planning team.

Jian Ni — Interim Director, Executive Ph.D. Program. PI on the AgriMind CALS Integrated Seed Grant (Unit 1 cross-reference).

France Bélanger — University Distinguished Professor; R. B. Pamplin Professor; Tom & Daisy Byrd Senior Faculty Fellow; Association for Information Systems Fellow. Member of the university AI Futures Working Group (appointed spring 2026; roster published August 20, 2026).

David Townsend — Digges Family Professor of Entrepreneurship. In VT News' "Q&A: The AI slowdown debate" (September 16, 2026): "These technologies are going to become like electricity. Is electricity dangerous if mishandled? Of course. But we build safety control systems to manage it... What we need for proper AI integration are targeted control systems, not a halt to the scientific process." One of five faculty who led Pamplin Executive Education's free "A Day in the Life with AI" webinar (January 23, 2026) with Phil Xiang, Shilpa Rao, Jim Dickhans, and Onur Seref.

David Simpson and **Yaling Yang** — Listed under Business Information Technology in the April 2026 Pamplin Perspective as speakers at the "Scam Bot Virginia Tech Foundry Roundtable" at Mobile World Congress 2026 on the SIM Farm Detection Initiative with GSMA Foundry, which "uses cellular

network digital twins, telecom simulation, and AI to detect large-scale SIM farm fraud" (see Unit 4).

Carolyn Kogan — Assistant Professor of Practice, Marketing (2026 hire), described in the college's Marketing Monthly (February/March 2026 issue) as "a perfect fit into the new Pamplin Plus Initiative."

Mehul Sanghani '98 — Returned to the Board of Visitors on April 10, 2026 (Governor Spanberger; interim seat completing the late Vice Rector Sandra Davis's term, then a full term from July 1, 2026; prior service 2014 to 2022; chairs the Finance and Resource Management Committee); president of the Pamplin Advisory Council since May 2025; founder and managing partner of Greycore Ventures. Joins Arun Gupta (NobleReach Foundation) for the October 1, 2026 Wells Fargo Distinguished Speaker Series conversation on "career pathways in the AI era," moderated by Sarker.

3.3 Teaching & Curriculum

Required AI Literacy and Pamplin+

Pamplin+ launched in fall 2026 (VT News, September 8, 2026: "Starting in fall 2026, the college will launch Pamplin+, a reimaged undergraduate curriculum focused on career readiness"). Under the "AI for All" pillar, "In their first year, students are required to take an AI literacy course that engages them in prompt engineering and threaded conversations, bias recognition and critical thinking evaluation, as well AI agent development and skills protocols for business applications." The college's experiential-learning page names the course "AI Literacy for Business," a "first-year cornerstone course" that "Builds early AI literacy through hands-on practice with intelligent tools. Students learn to use, question, and evaluate AI in responsible and practical ways across real business scenarios and decisions." The admissions page says students "develop protocols for responsible and agentic AI use." The course number does not appear in the launch announcement or on the college's experiential-learning and admissions pages. The requirement is college-wide, which supersedes the October 2025 MKTG 4114 spotlight statement that "all freshmen in marketing will be required to take an AI in Business course." Pamplin remains the only VT college documented in this inventory as having a mandatory AI literacy course. The launch also introduced a four-course cohort sequence: BUS 1004 Foundations of Business Problem-Solving with Venture Creation, BUS 2004 Intermediate Business Problem-Solving with Competition Simulation, BUS 3004 Advanced Business Problem-Solving with Client Service Projects, and BUS 4004 Capstone Business Problem-

Solving with Corporate Client Projects, plus two mandatory co-curricular experiences including at least one internship. Jill Sible, associate vice provost for undergraduate academic affairs, is quoted in the launch article.

Pamplin+ was launched under Sarker's "NextGenPamplin" vision. Four pillars: (1) hands-on classroom learning with AI and emerging technologies ("AI for All"), (2) high-impact co-curricular experiences (required internship plus one additional), (3) progressional cross-disciplinary cohort projects, and (4) a strong foundation in core business disciplines. The December 2024 newsletter confirms: "Departments are submitting their course recommendations this semester with plans to continue collaborative discussions in the spring semester. The updated business core will go through governance next year with plans to implement starting Fall 2026."

Marketing AI Minor (Three-Course Sequence)

Transitioning from a course cluster to a formal minor in 2025. Three courses: (1) MKTG 4114: Introduction to AI in Marketing (launched 2022, cleared as Pathway 5 quantitative, covers AI myths/facts, applications, strategic preparation, broader impacts; taught by Rao); (2) Analytics for AI in Marketing (enhanced version of existing marketing analytics course); (3) Responsible AI in the Marketplace (MKTG 4984, examines AI through an ethical lens; first offered Fall 2024; taught by Turner).

AI-Powered Classroom Applications

Robert and Dickhans deployed AI-powered personas in REAL 1024. Seref's coding classes integrate AI tools. Michalisin's Sales Technology course uses AI for sales pitches and case studies. These represent faculty-level implementations rather than college-mandated curricula.

Pamplin contributes BIT 4604 (Data Governance, Privacy, and Ethics) to the ethics component of the university-wide AI minor launched in fall 2026 (Part I, Section III.A); the minor's announcement is tagged Pamplin and Marketing. At the May 2026 commencement, speaker Melissa Taylor '95 (KPMG) told graduates that "Everybody is rallying around the opportunities with AI, technology and disruption, it is so exciting"; Sarker's remarks did not address AI. A Wall Street Journal partner-content piece, "At Virginia Tech, the AI Classroom Is Real-World Business," is cited by URL; its text and date could not be retrieved for this snapshot.

CodeFest 2025

A 48-hour sprint in partnership with Marriott International (October 10, 2025). Theme: "From Booking to Belonging: AI and Tech for Human-

Centered Travel." Students from business, CS, and other disciplines explored AI applications in hospitality. Naveen Manga, CIO of Marriott International, attended. Sarker: "It's about harnessing technical, analytical, creative, and human centered perspectives to solve complex, real-world challenges."

Graduate Programs

Master of Information Technology (VT-MIT) — Joint program with the College of Engineering. 100% online, 33 credit hours. Tied #6 nationally for online graduate IT programs and #3 for veterans (U.S. News 2026). Eleven optional areas of specialization including Big Data, Cybersecurity, Software Development, Data Analytics, and AI/ML. Recently launched AI/ML certificates and courses. 380+ enrolled students, based at the Innovation Campus fourth floor.

MSBA — Business Analytics — 12-month, 30-credit-hour program ranked #22 in the U.S. by TechGuide 2025. Led by the Center for Business Analytics (Jay Winkeler, Director). Nine-month capstone with corporate sponsors including NASA, Leidos, Boeing, Advance Auto, Norfolk Southern, and Lockheed Martin.

MSBA — Hospitality and Tourism Management — Offered at the Innovation Campus with a Global Business Analytics concentration.

Executive Ph.D. — Research-intensive, offered in Alexandria.

3.4 Tools & Technology

The college relies on institutional AI infrastructure documented in Part I, Section IV. No college-specific AI tool procurement was identified beyond DoIT and TLOS offerings.

3.5 Research & Scholarship

Center for Business Analytics (CBA)

Operates the MSBA-BA program. Faculty research spans automation, ML, AI, consumer analytics, social media analytics, organizational behavior, and marketing/financial analytics. Hosts the annual Day for Data symposium. Corporate sponsor partnerships support priority recruitment, capstone projects, and faculty research collaboration.

"Judgy AI" Research

"Don't You Dare Judge Me': Judgments by AI Tools and their Impact on Minorities." CCI-funded (Southwest Virginia node, Addressing Inclusion and

Accessibility in Cybersecurity Program, 2024). PI: Tabitha L. James. Co-PI: Viswanath Venkatesh. Develops a "Judgy AI" system providing feedback on facial wrinkle severity — an application cosmetic companies use — and examines emotional and cognitive responses to algorithmic evaluations of personal characteristics. Investigates whether AI-driven judgments exacerbate "toxic beauty standards" and lead to predatory spending among people with low self-esteem and minorities. One of only two projects funded by the CCI Southwest Virginia node in 2024.

Security, Privacy, and Trust Research Call (December 2024)

Up to \$20,000 total funding across one or multiple cross-disciplinary projects on security, privacy, and trust across all Pamplin disciplines.

AI-Accessibility Project

Funded by an ICAT Major SEAD grant. Cross-disciplinary: architecture, computer science, human sciences, and marketing. Develops AI-powered navigation products for individuals with vision impairment. Showcased at the Innovation Campus grand opening (February 2025) and a Cube exhibition (April 2025).

Barkhi/Seref — Holixec Education Commentary

Reza Barkhi and Michelle Seref, both co-chairs of the Pamplin AI Task Force, co-authored "Holixec Education: Experiential and Personalized Learning Implemented with Mindfulness" in *Journal of Macromarketing* (2025, Vol. 45, Issue 3, pp. 491–496). The peer-reviewed commentary responds to Dr. Wided Batat's Holixec education model and advocates for the "human-in-the-loop" paradigm in AI-integrated business education. Key arguments: business schools must shift from teaching students to perform data analysis to teaching execution and contextualization, since AI now handles much of the analytical work; institutional barriers to this shift include departmental silos, traditional reward structures favoring elite-journal publication, and Student Perceptions of Teaching (SPOT) evaluation systems that penalize less-structured courses; faculty need support to integrate AI tools into pedagogy and to develop new assessment strategies for AI-supported student work. The article cites the need for "clear guidelines for AI usage in assignments" and identifies the institutional rewards-and-rankings system as the primary obstacle to holistic AI-integrated business education.

Selected Publications

Li, B., Lai, E.Y., & Wang, X. (2025). "From Tools to Agents: Meta-Analytic Insights into Human Acceptance of AI," *Journal of Marketing*. Turner, B.L. & Reczek, R.W. (2024). "Hype-Free AI: How AI actually impacts psychology in research, the workplace, the marketplace, and beyond," *Current Opinion in Psychology*. Shane Wang (2024 MSI Scholar) publishes on AI/ML techniques in business analytics.

3.6 Events & Programming

Day for Data Symposium (annual, 4th edition November 3, 2025). Hosted by the Center for Business Analytics at the Center for the Arts. Free and open to the public. Theme: AI and analytics in organizational decision-making. Speakers included Rishi Jaitly (Senior Advisor to OpenAI; VT Institute for Leadership in Technology founder), Mehul Sanghani (Octo founder, VT alumnus, Sanghani Center namesake), Keith Johnson (Head of Solutions Architecture, Global Defense, AWS — spoke on agentic AI), Jeff Crume (IBM Distinguished Engineer — AI, quantum computing), Ben Walker (Kearney), Matt Welsh (CIO, X-energy), and Michelle Fultz (DHS Client Leader, IBM). Winkeler: "Day for Data is about real-world innovation and application."

Hokies on Wall Street AI Panel (April 2024, NYC). "The AI Workplace of the Future: What Wall Street Needs from Business Education." Moderated by Sarker with VT alumni and Reza Barkhi. Sarker cited an expert's view that anyone not having "an existential crisis" about AI was probably not embracing it enough.

Pamplin Society Signature Event: "Pamplin and AI Responsibility" (Fall 2024). 75+ alumni and friends. Panel moderated by Sarker with Ivo Djoubailov '04 (Deputy CTO, HUD), Sujey Edward (CTO, IBM Federal), Marco Leung '12 (Senior Manager, Deloitte), and Michelle Seref.

Pamplin Career Trek to D.C. Area (Fall 2025). Pamplin Career Services and Employer Relations, directed by Jennifer Tortora, organized employer engagement programming including visits to Deloitte and Appian where students attended product demonstrations covering "artificial intelligence, sustainability, cybersecurity, and digital infrastructure." The framing of AI in the trek's public coverage was provided by company representatives rather than career services itself.

Pamplin Engagement Summit (April 2024). 300+ attendees. Panel with President Tim Sands and Dean Sarker.

Pamplin Regional Alumni Event (March 2025, Academic Building One). Sarker introduced NextGenPamplin and Pamplin+ alongside Christine Julien (CS Department Head, CoE) and Jai Sundararaman (Senior Engineering Director, Google).

Women in Marketing and Sales Mini-Workshop (November 15, 2024). "Practical Applications of AI in Teaching, Research, and Administrative Work." Led by Professors Monica Hillison, Shilpa Rao, and Boya Xu. Hands-on demonstrations of LLMs.

Sentivity.ai and Apex Center

Sentivity.ai, "a predictive sentiment intelligence platform" founded by students Rowan Martnishn '26 (College of Science) and Vishal Green (College of Engineering) and incubated through Pamplin's Apex Center, reached the semifinals of the Rice Business Plan Competition and competed in the ACC InVenture Prize (VT News, May 2026). No 2026 Pamplin research call, seed grant, or follow-up on the Judgy AI project was found. Day for Data 2026 had not been announced as of the evidence snapshot date; the Center for Business Analytics page still shows the November 3, 2025 edition.

Gaps and Observations

Pamplin's AI governance infrastructure is singular among the colleges documented in this inventory: no other college was found to have an AI position statement, separate teaching and research guidelines, or a mandatory AI literacy requirement. Sarker has the most documented public AI statements of any VT dean in this inventory. The question is implementation: the full text of the research and teaching guidelines has not been found as standalone public documents, the task force membership roster beyond two named members cannot be independently verified, the required AI course has launched but has no published course number, no document attributed to the AI Task Force dated after its 2024 report was found, and no 2026 dean's newsletter was located.

The CALS Integrated Seed Grant's "AgriMind" project (Unit 1), with a Pamplin PI (Jian Ni) and CALS co-investigators, suggests cross-college AI research capacity that Pamplin's governance infrastructure may eventually need to account for.

Cross-References

- **CALS (Unit 1):** AgriMind seed grant — Pamplin PI (Ni) with CALS co-investigators.
- **Innovation Campus (Unit 22):** Pamplin occupies Academic Building One fourth floor. VT-MIT and MSBA-HTM based there. Executive Ph.D. delivered from Alexandria.
- **College of Engineering (Unit 4):** VT-MIT is joint Pamplin/Engineering. Christine Julien appeared at alumni event.
- **Sanghani Center (Unit 4):** Mehul Sanghani is regular Day for Data speaker and Pamplin alumnus.
- **ICAT (Unit 22):** AI-Accessibility project funded by ICAT Major SEAD grant.
- **CCI:** "Judgy AI" funded by CCI Southwest Virginia node.
- **Part I, Section II.C:** Position statement and guidelines documented as supplemental guidance.
- **Part I, Section IX:** Sarker identified as one of the two deans with the most documented public AI engagement.

Sources

December 2024 Pamplin newsletter — AI Position Statement full text, task force description, AI teaching priorities, Pamplin+ curriculum planning timeline, TLC Roundtable topics.

<https://pamplin.vt.edu/faculty-and-staff-resources/newsletters/2024-12.html>

March 2024 Pamplin newsletter — Sarker's column after AACSB on AI task force uniqueness among business schools.

<https://pamplin.vt.edu/newsletter/2024/03-26.html>

Pamplin Town Hall presentation (August 29, 2024) — year-in-review timeline confirming AI Task Force initiated November 2023, report submitted April-May 2024. Strategic planning team chairs and members listed.

https://pamplin.vt.edu/content/dam/pamplin_vt_edu/documents/August%202024.pdf

Cara Spicer CV — confirms AI Task Force membership (Fall 2023–present) and FinTech and Big Data Analytics faculty lead role.

https://finance.pamplin.vt.edu/content/dam/finance_pamplin_vt_edu/directory/cvs/CaraSpicer.pdf

Dean Sarker biography — Lund University, LSE visiting professor, UVA McIntire (2013–2021), research areas.

<https://pamplin.vt.edu/bios/saonee-sarker.html>

Spicer faculty profile — Faculty Lead for FinTech and Big Data Analytics.

<https://finance.pamplin.vt.edu/about-us/directory/spircer.html>

Cindy Devers faculty profile — R.B. Pamplin Professor of Management, Editor-in-Chief of *Journal of Management*, Oxford Centre for Corporate Reputation fellow.

<https://management.pamplin.vt.edu/faculty/directory/devers.html>

Virginia Business on Sarker appointment — background, selection process, predecessor context.

<https://www.virginiabusiness.com/article/va-tech-names-new-biz-school-dean/>

Pamplin undergraduate page — Pamplin+ four-pillar description, "AI for All" pillar, required AI literacy course, co-curricular requirements.

<https://pamplin.vt.edu/ug.html>

MKTG 4114 course spotlight — "Starting Fall 2026, all freshmen in marketing will be required to take an AI in Business course." Course content description.

<https://marketing.pamplin.vt.edu/spotlight/mktg-4114.html>

Shilpa Rao spotlight — Marketing AI Minor rationale, three-course sequence.

<https://marketing.pamplin.vt.edu/spotlight/DrShilpaRao.html>

Sales Technology AI integration spotlight — Michalisin's MKTG 4054, AI adoption driven by student recommendations, alignment with Pamplin+.

<https://marketing.pamplin.vt.edu/spotlight/sales-technology-crm-ai.html>

Rao faculty page — course listings, research interests, AI in marketing focus.

<https://marketing.pamplin.vt.edu/people/faculty/rao.html>

VT News on CodeFest 2025 — Marriott partnership, "From Booking to Belonging" theme, Naveen Manga (CIO Marriott), Sarker quote.

<https://news.vt.edu/articles/2025/11/pamplin-2025-code-fest.html>

VT-MIT program page — joint Pamplin/Engineering, 100% online, 33 credits, eleven areas of specialization, AI/ML certificates.

<https://analytics.cs.vt.edu/edu-mit.php>

MSBA program page — 12-month cohort format, corporate capstone sponsors (NASA, Leidos, Boeing, etc.).

<https://cba.pamplin.vt.edu/grads/masters.html>

MSBA curriculum page — 30 credit hours, analytics core, AI/cloud computing/data mining coursework.

<https://cba.pamplin.vt.edu/grads/curriculum.html>

VT News on "Judgy AI" research — James and Venkatesh, CCI funding, facial wrinkle severity, toxic beauty standards, minority impacts.

<https://news.vt.edu/articles/2024/06/pamplin-judgy-ai.html>

CCI funded projects page — "Judgy AI" as one of two CCI Southwest Virginia node awards in 2024.

<https://cyberinitiative.org/research/funded-projects/2024-funded-projects/2024-comprehensive-cybersecurity/impact-of-ai-tool-judgement.html>

Marketing department research page — Li et al. "From Tools to Agents" (*Journal of Marketing*, 2025), Turner & Reczek "Hype-Free AI" (*Current Opinion in Psychology*, 2024).

<https://marketing.pamplin.vt.edu/research.html>

Marketing monthly (December 2024) — WIMS mini-workshop on practical AI applications, led by Hillison, Rao, Xu.

<https://marketing.pamplin.vt.edu/marketing-monthly/2024-12.html>

October 2024 newsletter — Security, Privacy, and Trust research call (\$20K cross-disciplinary).

<https://pamplin.vt.edu/faculty-and-staff-resources/newsletters/2024-10.html>

VT News on Day for Data 2025 — speakers (Jaitly/OpenAI, Sanghani, Johnson/AWS on agentic AI, Crume/IBM), Winkeler quote.

<https://news.vt.edu/articles/2025/10/pamplin-day-for-data-symposium.html>

Day for Data 2025 registration page.

<https://news.vt.edu/notices/2025/10/day-for-data-symposium-2025.html>

Day for Data main page — Center for Business Analytics event history.

<https://cba.pamplin.vt.edu/events/day-for-data.html>

VT News on Hokies on Wall Street AI panel (April 2024) — Sarker "existential crisis" quote, Barkhi, VT alumni panelists.

<https://news.vt.edu/articles/2024/04/pamplin-ai-hows.html>

VT News on "Pamplin and AI Responsibility" event (Fall 2024) — 75+ attendees, Djoubrailov (HUD), Edward (IBM Federal), Leung (Deloitte), Seref.

<https://news.vt.edu/articles/2024/11/pamplin-ai-responsibility-panel.html>

VT News on Pamplin Engagement Summit (April 2024) — 300+ attendees, Sands and Sarker panel.

<https://news.vt.edu/articles/2024/05/pamplin-pes-sands-sarker.html>

Barkhi, R. & Seref, M. (2025). "Holixec Education: Experiential and Personalized Learning Implemented with Mindfulness." *Journal of Macromarketing*, 45(3), 491–496. DOI: 10.1177/02761467251323513. Confirms Barkhi and Seref as co-chairs of the Pamplin AI Task Force in author bios; advocates human-in-the-loop paradigm and identifies institutional barriers to AI integration.

<https://doi.org/10.1177/02761467251323513>

VT News on Pamplin career trek to D.C. area (December 2025) — Tortora's career services programming, student visits to Deloitte and Appian for AI/cybersecurity/digital infrastructure demonstrations.

<https://news.vt.edu/articles/2025/11/pamplin-career-trek-fall-2025.html>

March 2025 newsletter — Pamplin Regional Alumni Event at Academic Building One, Sarker introduces NextGenPamplin with Julien (CS) and Sundararaman (Google).

<https://pamplin.vt.edu/faculty-and-staff-resources/newsletters/2025-03.html>

Pamplin homepage — Pamplin+ branding, AI research positioning, graduate program overview.

<https://pamplin.vt.edu/>

Center for Business Analytics homepage — MSBA operations, corporate partnerships, Day for Data.

<https://cba.pamplin.vt.edu/>

VT News: Pamplin+ launch, September 8, 2026 (Sarker, Sible quotes; AI for All pillar; BUS course sequence).

<https://news.vt.edu/articles/2026/08/pamplin-plus-undergraduate-experience.html>

Pamplin experiential learning page: "AI Literacy for Business" course description.

<https://pamplin.vt.edu/ug/experiential.html>

Pamplin undergraduate admissions page: Pamplin+ and agentic AI language.

<https://pamplin.vt.edu/ug/admissions.html>

Pamplin leadership page: dean's cabinet and department heads.

<https://pamplin.vt.edu/about/leadership.html>

VT News: Jang and Venkatesh, rareness bias diffusion, MIS Quarterly (July 16, 2026).

<https://news.vt.edu/articles/2026/07/pamplin-bit-research-rareness-bias-diffusion.html>

Pamplin Executive Education: A Day in the Life with AI webinar (January 23, 2026).

<https://execed.pamplin.vt.edu/programs/ai-day-in-the-life.html>

Pamplin Perspective, April 2026: Simpson and Yang at Mobile World Congress; Kogan hire.

<https://pamplin.vt.edu/alumni/perspective/april2026.html>

VT News: Sentivity.ai, Apex Center, Rice Business Plan Competition (May 2026).

<https://news.vt.edu/articles/2026/05/pamplin-apex-acc-inventure-rice-competition.html>

VT News: Pamplin commencement 2026 (Taylor quote).

<https://news.vt.edu/articles/2026/06/pamplin-commencement-2026.html>

Seref directory page (May 2026); no task force reference.

<https://bit.vt.edu/faculty/directory/seref-m.html>

WSJ partner content listing, "At Virginia Tech, the AI Classroom Is Real-World Business" (August 15, 2026; text not retrieved).

<https://partners.wsj.com/virginia-tech/partnering-for-impact/at-virginia-tech-the-ai-classroom-is-real-world-business/>

Pamplin Marketing Monthly, February/March 2026 (Kogan profile: "a perfect fit into the new Pamplin Plus Initiative").

<https://marketing.pamplin.vt.edu/marketing-monthly/2026-03.html>

Unit 4. College of Engineering + Sanghani Center for Artificial Intelligence and Data Analytics

Key Signals: The College of Engineering is Virginia Tech's largest college and houses the Sanghani Center, the university's dedicated AI/data analytics research center. The Sanghani Center's first AAI Fellow (Sanmay Das, 2026), the \$18M NSF COMPASS Center, the Amazon-Virginia Tech Initiative, the NSI Navy AI Training Program, and the \$20M NSF Programmable Cloud Laboratory Node (August 2026) represent scale and institutional commitment unmatched elsewhere in this inventory. Warren Dixon became dean on July 10, 2026, ending the interregnum that followed Julie Ross's move to the provost role, and co-chairs the university's AI Futures Working Group. The college also launched the university-wide 18-credit AI minor for fall 2026.

Fourteen undergraduate degrees, 16 doctoral programs, 19 master's programs across 17 areas of study. Tied #14 nationally for undergraduate engineering (U.S. News 2026). The Department of Computer Science employs 75 faculty and enrolls approximately 1,400 undergraduates and 600 graduate students. CS is tied #25 nationally (2026, up 4 spots from prior year) with a top-25 ranking in the AI specialty area. The college also houses the Bradley Department of Electrical and Computer Engineering, the Department of Industrial and Systems Engineering, the Department of Engineering Education, and the Department of Biomedical Engineering and Mechanics, all of which have documented AI-related activity.

The Sanghani Center was founded in 2011 as the Discovery Analytics Center, renamed in 2021 following a \$10 million gift from Mehul and Hema Sanghani. It operates from Blacksburg and the fifth floor of Academic Building One at the Innovation Campus. The center's pages give different figures: the about page says it has "organically grown to include 20 faculty and over 120 graduate students"; the Facts & Figures page lists 25 academic faculty, 5 research faculty, 100 students, 11 active grants, and \$14.9M in grants in force; the people directory returns 32 faculty, 152 current students, and 257 alumni (all as of September 26, 2026). The center's self-description emphasizes not only algorithmic work but "developing adaptable and user-friendly platforms for reliable AI/ML implementations" and bringing together "human-computer interaction

experts, as well as researchers who study the social and ethical aspects of AI."

4.1 Governance & Policy

No college-level AI governance document was identified in public sources. Two college faculty, Luke Achenie (Chemical Engineering) and Bob Edmison (Computer Science), sit on the university AI Working Committee, as does Alberto Cano (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). Faculty follow the institutional Responsible and Ethical AI Framework and TLOS guidance documented in Part I. The College of Engineering IT office maintains an AI resources page (it.eng.vt.edu/articles/ai-resources.html) with security and data-handling guidelines specific to the college, the only unit-level IT AI resource page documented in this inventory. The college has not created a supplemental AI position statement or teaching/research guidelines comparable to Pamplin's (Unit 3).

The Sanghani Center has not published standalone AI governance documents. Its governance operates through the Department of Computer Science and through institutional structures. Naren Ramakrishnan, the center's director, serves as the Innovation Campus lead for AI/ML research.

Dean Transition

Julie Ross served as dean from 2017 to 2025 before being named EVP and Provost in January 2026 (profiled in Part I, Section IX). David Knight, Professor of Engineering Education, served as interim dean through the search. A dean search chaired by Mario Ferruzzi (Dean, CALS) held open forums for four finalists March 19 to 30, 2026. Warren Dixon was named dean in April 2026 and started July 10, 2026. Dixon came from the University of Florida, where he was interim dean of the Herbert Wertheim College of Engineering and chair of Mechanical and Aerospace Engineering (2021 to 2025); the appointment release describes him as "widely recognized for integrating control theory with artificial intelligence (AI), particularly through advances in reinforcement learning and adaptive control for autonomous systems," and he is a Fellow of IEEE and ASME (both 2016). On appointment: "My goal is to prepare a workforce that doesn't just understand AI but masters its physical manifestation to solve the most pressing challenges of our time, serving the commonwealth and beyond." He co-chairs the AI Futures Working Group with Rishi Jaitly (Part I, Section I.B): "Our work at Virginia Tech is to provide a cultural framework around AI so that faculty, staff, and students embrace AI as an

enabler to enhance human capability while preserving the values, creativity, and judgment that make our communities strong." An August 2026 Q&A with the new dean names areas of college strength but contains no college-level AI governance commitment.

Cross-reference: University-wide AI governance framework, risk classification, and research compliance — Part I, Sections I, IV, and VI.

4.2 People

Naren Ramakrishnan — University Distinguished Professor (elevated by the Board of Visitors April 14, 2026; joins 17 active holders of the title); Thomas L. Phillips Professor in the Department of Computer Science; founding director of the Sanghani Center; AI and machine learning lead for the Institute for Advanced Computing. Directs the Amazon-Virginia Tech Initiative for Efficient and Robust Machine Learning. Co-chaired the VirginiaAI Summit (September 2025). Principal CMDA faculty member (cross-listed with the Academy of Data Science, Unit 2). Elected to the 2026 class of the Virginia Academy of Science, Engineering, and Medicine (VT membership "now stands at 32"). Member of the AI Futures Working Group. Sands, on the distinguished professorship: "Dr. Ramakrishnan's expertise and leadership in AI and machine learning places Virginia Tech at the forefront of this rapidly evolving field." EMBERS received the 2025 ACM SIGKDD Test of Time Award.

Sanmay Das — Professor of Computer Science at the Innovation Campus. Associate Director of AI for Social Impact at the Sanghani Center. Elected 2026 AAAI Fellow — the first VT faculty member to receive this recognition. Cited "for significant contributions to the development of multi-agent interaction mechanisms and learning techniques in the public interest and for leadership service to the profession." Past chair of ACM SIGAI. DARPA Information Science and Technology Study Group member. General co-chair of AAAI/ACM Conference on AI, Ethics, and Society (2024). Research: AI for public-interest resource allocation, AI-human decision-maker interaction, distributional consequences of AI in social systems. PhD MIT, BA Harvard. Joined VT in 2024 from George Mason.

T.M. Murali — Associate Department Head for Research, Department of Computer Science. Director of the NSF COMPASS Center (\$18 million). Co-chaired the VirginiaAI Summit.

Anuj Karpatne — Associate Professor of Computer Science. Physics-based neural network research with Cayelan Carey and Quinn Thomas (College of

Science, Unit 2; CNRE, Unit 6). COMPASS Center co-PI. Cross-appointed with the Center for Advanced Innovation in Agriculture (CAIA).

Ruoxi Jia — Assistant Professor, ECE. \$500,000 NSF CAREER Award for data valuation techniques to improve machine learning. Named 2025 Early Career Scholarly Impact Award recipient. Sanghani Center faculty.

Ming Jin — Assistant Professor, ECE. Trustworthy ML, safe reinforcement learning, foundation models. CCI grant PI for fake base station detection. Sanghani Center faculty. Co-PI on Sanghani-CAIA joint graduate scholarship.

Peng Gao — \$625,000 NSF CAREER Award for AI-powered cyberthreat protection.

Feras Batarseh — Biological Systems Engineering faculty (jointly CALS/CoE). Directs the A3 Lab. Featured on VT's "Curious Conversations" podcast discussing AI and water systems. Publications on AI testing, validation, and cyberbiosecurity. Primary documentation in Unit 1.

Myounghoon "Philart" Jeon — ISE faculty. PI on NSF Robot Theater and AI Ethics grant (\$586K, September 2025), developing after-school robotics curricula with an AI ethics focus. Co-PIs: Koeun Choi (HDFS) and Qin Zhu (Engineering Education).

Qin Zhu — Associate Professor, Engineering Education. PI on the NSF AI research security grant and Virginia Tech collaborator on the NSF AI ethics education typology grant (detailed in ORI/SIRC dossier, Unit 20). Developed a typology of AI ethics education approaches for engineering.

Kirk Cameron — Professor of Computer Science; managing director of the Institute for Advanced Computing; Boeing Endowed Professor (Board of Visitors, June 2026). See Unit 21.

Christine Julien — Department Head, Computer Science. Led the collaborators who built the university-wide AI minor (fall 2026): "Our goal is to ensure Virginia Tech graduates understand how these technologies work, how to evaluate them critically, and how to apply them responsibly in their own fields." Quoted on the Jefferson Lab High Performance Data Facility and on the 2026 NSF CAREER awards to Yanardag and Hasan. CS administration: Ali Butt (Associate Department Head for Faculty Development), Bob Edmison (Undergraduate Studies), T.M. Murali (Research), Eli Tilevich (Graduate Studies).

Yaling Yang — Professor, ECE. PI on GSMA-funded research using AI to detect and defeat SIM farm-based spam calls, in collaboration with the IAC's Brain-Inspired Computing, Communication, and Security Center.

Lingjia Liu — Andrew J. Young Professor of ECE. Co-director of Wireless@Virginia Tech. Co-PI on the GSMA spam call research.

New faculty hires (Fall 2025) with documented AI focus: Yuhao Zhong (ISE — explainable AI, smart manufacturing, computer vision), Mushuang Liu (ME — ML, autonomous vehicles), Simon Stepputtis (ME — AI and autonomous robotics), Alkim Avsar (ISE — human-AI teaming, learning sciences). Additional unnamed hires include faculty working on human-GenAI collaborative coding, neuromorphic chip design, and AI in engineering education.

Warren Dixon — Dean of the College of Engineering (from July 10, 2026); co-chair, AI Futures Working Group. See Dean Transition above.

Sarah Rodriguez — Associate Professor of Engineering Education; senior fellow in the Microsoft AI Economy Institute's 2025 fall cohort (project: "A Study of Community Colleges and GenAI Diffusion: Understanding Innovation, Workforce Development, & Regional Pathways"); member of the AI Futures Working Group.

Rose Hu — Head, Bradley Department of Electrical and Computer Engineering; PI on the \$20M NSF Programmable Cloud Laboratory Node (August 2026): "The chance of this serving the larger population is great."

Wei Zhou — Associate Professor, ECE; director, Micro-/Nanofabrication Cleanroom and Laboratory; "special advisor to the senior vice president for research and innovation for AI-guided semiconductor manufacturing and nanotechnology." PCL Node co-PI.

Alberto Cano — Associate Professor of Computer Science and Associate Vice President for Advanced Research Computing. PCL Node co-PI (Cardinal News lists him by his faculty title); quoted on the Owl cluster expansion (Unit 17).

Chang-Tien Lu — Professor of Computer Science and Associate Director, Sanghani Center. PI on VR-ACCESS (\$40,000 SEAD grant, 2026-27) and on decentralized drone-swarm coordination research (Sanghani news, August 2026).

Pinar Yanardag — Assistant Professor, CS; Sanghani core faculty. \$562,245 NSF CAREER award (2026) for "director-like" control of AI video generation; Emmy-nominated creative director of "Westworld 2020."

Shaddi Hasan — Assistant Professor, CS. NSF CAREER award (August 2026) for automated data-checking to expose strategic misreporting on the FCC National Broadband Map.

Debswapna Bhattacharya — Associate Professor, CS. Senior author of RNAbpFlow (*Nature Methods*, June 2026), an RNA structure model the release positions against AlphaFold 3; lead author Sumit Tarafder; NIH and NSF funded; "everything we're doing is open source and public."

Walid Saad — Professor, ECE; Next-G Wireless lead, Institute for Advanced Computing. In the September 16, 2026 AI slowdown Q&A: "Much of modern AI operates inside a black box... we need trustworthy and explainable AI algorithms," recommending "air-gapped environments," "automated kill switches," and "continuous-monitoring capabilities."

Hoda Eldardiry (CS) and **Aaron Noble** (Mining and Minerals Engineering) — named on two of the three VT projects selected in the first wave of the DOE Genesis Mission (July 2026): multimodal AI for cloud microphysics (PI Gabriel Isaacman-VanWertz, CEE) and "AI-enabled process optimization for multi-feed rare earth separation" (PI Noble).

Luiz DaSilva — Bradley Professor of Cybersecurity, ECE; inaugural executive director of the Commonwealth Cyber Initiative; elected to VASEM 2026.

4.3 Teaching & Curriculum

AI-Specific Courses

ECE 4524 (Artificial Intelligence and Engineering Applications): problem solving, search, knowledge representation, ML, neural networks, NLP, computer vision, robotics. ECE 4424 (Machine Learning): supervised, unsupervised, and semi-supervised learning. ECE 5494 (Innovation Pathways in AI and ML): socio-technical systems analysis of AI/ML including ethical and political implications; restricted to VT-MIT students. CS 4804 (Artificial Intelligence): foundations of modern AI and intelligent systems design.

Interdisciplinary AI Minor (Fall 2026)

The college is the declaring home for the university-wide 18-credit AI minor, open to any major, launched for the 2026-27 catalog year (announced June

2026; applications through the College of Engineering August 3 to 16, 2026; listed by the college under "Non-Restricted Engineering Minors"). Core: CS 1064 or CS 1114, CS 2104, and CS 3804 Foundations and Applications of Artificial Intelligence. A 3-credit ethics component and a 6-credit application module in one of four tracks (Computational, Arts, Social Science, Human Impact) draw courses from CLAHS, Pamplin, and Architecture, Arts, and Design; "One class already in review is AI in Theatre: Applications and Impacts." No more than nine credits may double-count. The minor originated as a round-one AI curriculum grant proposal (Ellis, Mayer, Nizamani, Ramakrishnan, Watson). Julien: "We made a deliberate choice: Instead of building something for computer science students and opening it to others, we built it from the start for the whole university." Jeffrey Loeffert, director of the School of Performing Arts: "Students need to worry less about losing their jobs to AI and worry more about losing their jobs to people who know how to use AI." Full detail in Part I, Section III.A.

Degree Programs with AI Content

The Master of Engineering in Computer Science and Applications, offered at the Innovation Campus, identifies AI/ML as one of four core research areas. The Master of Information Technology (joint with Pamplin, detailed in Unit 3) recently added AI/ML certificates and courses. The BS in Computer Engineering offers a Machine Learning secondary focus within the Bradley Department of ECE. Graduate Certificates in Data Analytics and Urban Computing are administered through the Sanghani Center.

ECE lists "Machine Learning, Data Science, & Autonomy" as a departmental research area.

NSI Navy AI Training Program

Launched June 2025 with Naval Surface Warfare Center, Dahlgren Division (NSWCDD). Three courses: Level 1 (one-day leadership overview with activities to identify organizational AI priorities), Levels 2 and 3 (each one week, concluding with capstone projects). The courses cover AI policy and governance, the methodologies and models behind AI and ML, and AI in test and evaluation. Created for the entire NSWCDD workforce from senior leaders to entry-level. Eighty Dahlgren civilians completed the first three courses. Faculty from NSI, SAIG, and the Sanghani Center deliver the curriculum. No update on 2026 cohorts beyond the April 2026 article had been published as of the evidence snapshot date; a June 2026 Axios

sponsored placement by Virginia Tech restates the program without new figures.

Kelli Esser, Chief Strategy Officer at VTNSI: "We use that day to bring leaders into the room and tell them what they need to know about AI from a higher level. We also use that time to interact with them through different activities and discussions to find out what they believe is most relevant to their organization and their workforce right now." Melanie C. King, NSWCDD business operations training manager: "Correctly applying AI and machine learning can significantly impact NSWCDD's mission by accelerating systems engineering, improving modeling and simulation, and enhancing test and evaluation through faster data analysis and anomaly detection." Courses scheduled throughout 2026 with evolving content.

AI/ML Bootcamp

The Virginia Tech AI & Machine Learning Bootcamp is offered through Continuing and Professional Education in partnership with Fullstack Academy, a non-credit program listed at 23 weeks as of September 2026. Documented in Part I, Section VIII.

4.4 Tools & Technology

The college relies on institutional AI infrastructure documented in Part I. The Engineering IT AI resources page provides college-specific guidance on security and data handling for AI tools.

The Sanghani Center's research operations use ARC compute infrastructure, including the Falcon GPU cluster, TinkerCliffs (H200 expansion), and, from summer 2026, the expanded Owl cluster with 32 NVIDIA B200 GPUs (Unit 17). Falcon early test users include CS faculty: Dawei Zhou's VLOG Lab (graph neural networks, LLM trustworthiness) and Tuo Wang (uncertainty quantification in LLMs); Zhou's group was an early B200 user on a DARPA-supported materials project. ARC's CUI cluster, operated in partnership with the Hume Center, supports ITAR/export-controlled research relevant to Sanghani's national security work.

4.5 Research & Scholarship

Sanghani Center Research

Amazon-Virginia Tech Initiative for Efficient and Robust Machine Learning — Directed by Ramakrishnan. Supports doctoral fellowships, faculty research, and an annual public research symposium. December 2025: awarded two Amazon Fellows and funding for four faculty projects.

Sanghani \$10 million gift (2021) — \$7.4 million to the center, \$1.5 million to food access programming, remainder to athletics and the Global Business and Analytics Complex. Supports recruiting, research, fellowships, and the Sanghani Center Scholars Program for minority students pursuing graduate AI degrees.

Sanghani-CAIA Joint Graduate Scholarship Program — Ph.D. student scholarships at the AI/agriculture intersection. Two years of funding per student with co-mentorship. Named recipients: Runing Yang (Jin/Sanghani + Huang/CAIA; LLM methods for agricultural data) and Hyunwoo Kim (Sridhar/CAIA + Karpatne/Sanghani; physics-based hydrology with ML/deep learning).

Summer 2025 and 2026 intern placements: 2025 placements at Google AI, Meta, Microsoft, Apple, Washington Post, Intuit, Yahoo Research, Deloitte, and Amgen. 2026 placements (Sanghani news, July 6, 2026) at Microsoft, Google, Capital One, Amazon, Adobe, ByteDance/TikTok, Futurewei, Peraton, and the Chronicle of Higher Education, on agentic conversational systems, speculative decoding, and RAG pipelines with "responsible AI controls -- such as hallucination mitigation and validation gates." Ramakrishnan: "AI and machine learning are becoming central in all fields."

NSF COMPASS Center (\$18M)

Center for Community Empowering Pandemic Prediction and Prevention from Atoms to Societies. Directed by T.M. Murali. Uses ML-based predictive models for pathogen-host interactions. Five collaborating institutions with VT as lead. Headquartered in the Data and Decision Sciences Building. Held inaugural National Dialogue on ethics in pandemic science (February 2025). 2026 undergraduate summer internship program advertised.

NSF CAREER Awards

Ruoxi Jia (\$500,000, data valuation for ML). Peng Gao (\$625,000, AI-powered cyberthreat protection). Pinar Yanardag (\$562,245, controllable AI video generation; 2026). Shaddi Hasan (automated data-checking for the FCC National Broadband Map; 2026; amount not stated in the release).

NSF Robot Theater and AI Ethics (\$586K, September 2025)

PI: Jeon. Develops after-school robotics curricula with an AI ethics focus for K-12 students. Co-PIs: Koeun Choi (HDFS) and Qin Zhu (Engineering Education).

NSF Programmable Cloud Laboratory Node (\$20M, August 2026)

"A team of Virginia Tech researchers received a \$20 million grant from the U.S. National Science Foundation to establish an artificial intelligence (AI)-enabled cloud-based semiconductor laboratory," one of 20 nodes in an NSF network that the foundation calls a core contribution to the federal Genesis Mission. PI: Rose Hu (ECE head). Co-PIs: Wei Zhou (ECE), Zhenyu "James" Kong (ISE), Matthew Hull (ICTAS), and Alberto Cano (ARC). The goal is to "transform these labor-intensive work cycles into AI-guided workflows" using digital twin models, high-performance computing, and a sharable data system. Regional coverage names Oak Ridge National Laboratory, NIST, NVIDIA, and AWS as partners.

DOE Genesis Mission Projects (July 2026)

Three Virginia Tech AI projects were selected in the first wave of the Department of Energy's Genesis Mission (278 projects nationally): "AI-enabled co-design of fault-tolerant logical interface in quantum LDPC (low-density parity-check) codes" (Physics and Mathematics, Unit 2); multimodal AI linking cloud microphysics to precipitation (Isaacman-VanWertz and Foroutan, CEE; Eldardiry, CS; Ramseyer and Zick, Geography); and AI-enabled process optimization for rare earth separation (Noble, Mining and Minerals Engineering, Virginia Tech PI; Evans, senior research associate).

Pediatric Health AI Innovation Hub (June 2026)

The Children's National & Virginia Tech Pediatric Health AI Innovation Hub was announced at the third annual AI for Pediatric Health Symposium (May 28, 2026, Academic Building One, Alexandria). Ramakrishnan: "Pediatric health presents some of the most complex challenges for artificial intelligence, from limited data to rapidly changing biology." Michael Friedlander (FBRI), Sally Allain, Sarah Clinton, and Lance Collins are named. Funding is not specified. Primary documentation in Units 8/15.

Other 2026 Research

RNAbpFlow (Bhattacharya; *Nature Methods*, June 2026). Decentralized drone-swarm coordination using a spatio-temporal graph neural network (Lu; Ph.D. students Ganyu Zhou, Siji Chen, Linhan Wang, Chen Dai; funding not stated). VR-ACCESS, a \$40,000 2026-27 SEAD grant from ICAT and the IAC (PI Lu; co-PIs Andrew Gipe-Lazarou, Architecture, and Eiman Elgewely, Design; partners Virginia Department for the Blind and Vision Impaired and National Industries for the Blind). A \$460,260 HHS award to Virginia Tech for "research of artificial intelligence (AI) applications like machine learning

and natural language processing to medically treat seniors in rural communities" was announced by Rep. Morgan Griffith (July 27, 2026); Cardinal News (August 5, 2026), citing a university spokeswoman, describes the project as chronic pain management and attributes it to Huaiyang Zhong (ISE). Neither point was confirmed from a VT source. The Amazon–Virginia Tech Initiative issued a 2026-27 (Year 5) fellowship call; no 2026 awards had been announced as of the evidence snapshot date.

GSMA Spam Call Research (March 2026)

Yaling Yang (PI) and Lingjia Liu lead a GSMA-funded project using AI to detect and defeat SIM farm-based spam calls. Collaboration between the IAC's Brain-Inspired Computing, Communication, and Security Center, Pamplin College of Business, and ECE. Additional team members include Yang "Cindy" Yi (ECE, Bradley Senior Faculty Fellow) and David Simpson (Professor of Practice, retired Rear Admiral).

CHI 2026: LLM Advice and Autism Stereotypes (April 2026)

In April 2026, computer science doctoral student Caleb Wohn presented a study at CHI 2026 in Barcelona auditing six large language models across 345,000 generated responses. Disclosing an autism diagnosis shifted model advice toward stereotypical recommendations, discouraging socializing in up to 70 percent of tested scenarios, per VT News.

Image Protection Vulnerabilities Study (April 2026)

A team led by Bimal Viswanath (computer science) demonstrated that off-the-shelf image-to-image generative AI models paired with simple text prompts defeat the protective perturbation schemes designed to keep posted images from being used for deepfakes, facial identity theft, or artistic style mimicry. The team, including doctoral students Xavier Pleimling and Sifat Muhammad Abdullah, showed the weakness across eight case studies spanning six protection schemes, and concluded that no mathematically guaranteed protection currently exists for publicly posted images against an adversary using off-the-shelf generative models.

Nature Machine Intelligence Commentary

VT researchers, with collaborators from Carnegie Mellon and MIT, published on foundations and frontiers of agentic science. Specific author attribution not confirmed from available sources.

Industry Partnerships

Boeing: \$50 million commitment to the Innovation Campus (first foundational partner). Northrop Grumman: \$12.5 million commitment to quantum information science and engineering.

4.6 Events & Programming

Leaders+ Event: Science in the Age of AI (March 31, 2026). OpenAI VP Kevin Weil in conversation with Rishi Jaitly. 150+ attendees. President Sands gave opening remarks. Weil discussed GPT-5.2 applications in research.

VirginiaAI Summit (September 30 to October 1, 2025). 2025 VASEM Annual Summit at Academic Building One. 200+ attendees. Co-chaired by Murali and Ramakrishnan. Speakers included Lingjia Liu, Luiz DaSilva (CCI), Pinar Yanardag, Anuj Karpatne, and Mehul Sanghani. No 2026 edition had been announced as of the evidence snapshot date.

NSI AI Governance Symposium (September 2025). Two-day event at Academic Building One, co-hosted with Guidehouse. Focus on trustworthy and resilient AI governance.

COMPASS Center National Dialogue on Ethics in Pandemic Science (February 2025).

Amazon-Virginia Tech Initiative Annual Research Symposium.

40th Annual AAAI Conference (February 2026, Singapore). Das recognized as AAAI Fellow.

AI for Pediatric Health Symposium (third annual, May 28, 2026, Alexandria). Hub announcement; keynote Rod Tarrago (AWS).

Q&A: The AI slowdown debate (VT News, September 16, 2026). Saad (ECE) with Townsend (Pamplin) and Myers (CLAHS).

Gaps and Observations

The College of Engineering houses the densest concentration of AI research talent, funding, and infrastructure at Virginia Tech. No college-level AI governance document was identified. The Engineering IT AI resources page is the only college-level AI-specific operational page identified in this inventory, and it addresses security rather than governance, teaching, or ethics. The dean vacancy is closed: Dixon arrived in July 2026 with an AI research portfolio and a co-chair's seat on the university's AI Futures Working Group, which puts the college's dean at the head of institutional AI vision-setting without any college-level AI document to show for it. The AI

minor is a curricular product with university-wide reach; it is not governance.

The Sanghani Center operates more like a standalone research institute than a college entity: its faculty, graduate students, and industry partnerships cross college boundaries, and its physical home is split between Blacksburg and Alexandria. Ramakrishnan's 2026 titles (University Distinguished Professor, VASEM member, AI Futures Working Group member, IAC AI/ML lead) concentrate the university's AI research authority in one person. Whether Dixon integrates the center's capacity into college-level teaching and governance strategy or continues the current model of research-focused autonomy will shape the inventory's picture at the next evidence snapshot.

The new faculty hires signal strategic direction: explainable AI, human-AI teaming, AI ethics in engineering education, autonomous robotics. These are not general-purpose CS hires. They suggest an incoming cohort aligned with the responsible-AI posture the university framework articulates but the college has not yet operationalized.

Cross-References

- **Innovation Campus (Unit 21):** Academic Building One houses Sanghani's Alexandria operations. VirginiaAI Summit, Leaders+, NSI symposium, and the 2026 pediatric AI symposium hosted there. Cameron serves as managing director.
- **College of Science / ADS (Unit 2):** Ramakrishnan is principal CMDA faculty. Karpatne collaborates with Carey and Thomas. ADSDF funds engineering faculty.
- **Pamplin (Unit 3):** VT-MIT is a joint program. Julien appeared at Pamplin alumni events.
- **ORI/SIRC (Unit 20):** Lisa Lee (SIRC) is COMPASS Center faculty. Zhu holds two NSF grants through ORI-affiliated channels.
- **CALS (Unit 1):** Sanghani-CAIA joint scholarship program. Batarseh joint BSE appointment.
- **VMCVM (Unit 10):** Kylene Kehn-Hall is COMPASS Center faculty.
- **DoIT/ARC (Unit 17):** ARC compute infrastructure supports Sanghani operations. CUI cluster is a Hume Center partnership.
- **VTI/NSI (Units 13-14):** Navy AI Training Program delivered by NSI, SAIG, and Sanghani faculty.
- **CNRE (Unit 6):** Thomas and Karpatne collaborate on ecosystem forecasting.

- **Part I, Section IX:** Ross's transition from Engineering dean to Provost; Sands's Leaders+ remarks.

Sources

Sanghani Center homepage — center overview, news, navigation to faculty and research pages.

<https://sanghani.cs.vt.edu/>

Sanghani Center about page — "20 faculty and over 120 graduate students," self-description emphasizing human-computer interaction and ethical/social AI research alongside algorithmic work.

<https://sanghani.cs.vt.edu/about.html>

Sanghani Center people directory — 32 faculty results across eight pages, 152 current students, 257 alumni (September 26, 2026).

<https://sanghani.cs.vt.edu/people.html>

Sanghani Center research areas — analytics, ML, AI research portfolio.

<https://sanghani.cs.vt.edu/research.html>

Sanghani Center news page.

<https://sanghani.cs.vt.edu/news.html>

Summer 2025 intern placements — students at Google AI, Meta, Microsoft, Apple, Washington Post, Intuit, Yahoo Research, Deloitte, Amgen; working on NLP, AI fairness, diffusion models, knowledge graphs, translational biology.

<https://sanghani.cs.vt.edu/news/news-person/?psn=5706>

Graduate Certificate in Data Analytics — Sanghani-administered certificate program.

<https://sanghani.cs.vt.edu/academics/data-analytics.html>

Graduate Certificate in Urban Computing — Sanghani-administered certificate program.

<https://sanghani.cs.vt.edu/academics/urban-computing.html>

VT News on Sanmay Das AAAI Fellow election (January 2026) — first VT faculty member recognized, citation for multi-agent interaction and public interest AI, MIT PhD, Harvard BA, joined from George Mason 2024.

<https://news.vt.edu/articles/2026/01/sanmay-das-elected-aaai-fellow-for-contributions-to-multi-agent-.html>

VT News on Ruoxi Jia NSF CAREER Award (\$500K) — data valuation techniques to improve ML.

<https://news.vt.edu/articles/2023/03/eng-ece-ruoxi-jia-receives-NSF-career-award-for-improved-data-valuation-and-machine-learning.html>

VT 2025 faculty/staff awards — Jia named 2025 Early Career Scholarly Impact Award recipient.

<https://news.vt.edu/awards/facstaff2025.html>

VT News on Fall 2025 new engineering faculty — Zhong (explainable AI), Liu (ML/autonomous vehicles), Stepputtis (AI/robotics), Avsar (human-AI teaming), plus unnamed hires in GenAI collaborative coding, neuromorphic chips, AI in engineering education.

<https://news.vt.edu/articles/2025/09/eng-new-faculty-2025.html>

VT News on NSF COMPASS Center (\$18M) — Murali as director, ML-based pandemic prediction, five collaborating institutions, VT as lead.

<https://news.vt.edu/articles/2024/08/eng-cs-NSF-pandemic-center-virginia-tech.html>

VT News on COMPASS National Dialogue on Ethics in Pandemic Science (February 2025).

<https://news.vt.edu/articles/2025/02/eng-cs-national-dialogue-pandemic-ethics.html>

COMPASS Center 2026 undergraduate summer internship program.

<https://compass-pipp.org/event/2026-undergraduate-summer-program/>

Amazon-Virginia Tech Initiative homepage — Ramakrishnan as director, doctoral fellowships, faculty research projects, December 2025 awards (two Amazon Fellows, four faculty projects).

<https://amazon.cs.vt.edu/>

VT News on CAIA-Sanghani Joint Graduate Assistantship — program structure, first two scholars (Kim, Yang), co-mentors, research agendas.

<https://news.vt.edu/articles/2024/04/sanghani-center-and-caia-cultivate-transdisciplinary-research-in.html>

VT News on NSF Robot Theater and AI Ethics grant (\$586K, September 2025) — Jeon as PI, after-school robotics with AI ethics focus, Co-PIs Choi and Zhu.

<https://news.vt.edu/articles/2025/09/eng-ise-robot-theater-nsfgrant2025.html>

VT News on CCI research grants (August 2025) — Jin's fake base station detection grant, other CCI-funded AI projects.

<https://news.vt.edu/articles/2025/08/iac-cci-research-grants.html>

VT News on GSMA spam call research (March 2026) — Yang and Liu lead AI-based SIM farm detection, IAC Brain-Inspired Computing Center collaboration, team includes Yi and Simpson.

<https://news.vt.edu/articles/2026/03/iac-GSMA-spam-bot-SIM-farms-AI.html>

A3 Lab research page — Batarseh's full publication list (joint CALS/CoE appointment). Primary documentation in Unit 1.

<https://ai.bse.vt.edu/research.html>

Virginia Business on Sanghani \$10M gift — \$7.4M to center, \$1.5M to food access, Scholars Program for minority graduate students.

<https://virginiabusiness.com/virginia-tech-receives-10m-gift-for-ai-focused-center/>

ECE 4524 course page — Artificial Intelligence and Engineering Applications.

<https://ece.vt.edu/undergrad/courses/4524.html>

ECE 4424 course page — Machine Learning.

<https://ece.vt.edu/undergrad/courses/4424.html>

ECE 5494 course page — Innovation Pathways in AI and ML, socio-technical systems analysis, restricted to VT-MIT students.

<https://ece.vt.edu/grad/courses/5494.html>

ECE ML/Data Science/Autonomy research area page.

<https://ece.vt.edu/research/areas/machine.html>

BS Computer Engineering Machine Learning focus — catalog page.

<https://catalog.vt.edu/undergraduate/college-engineering/electrical-computer-engineering/computer-engineering-bs-machine-learning/>

VT AI & Machine Learning Bootcamp — 23-week part-time program with Fullstack Academy (26 weeks in the spring 2026 version).

<https://bootcamp.cpe.vt.edu/programs/ai-machine-learning>

VT News on NSI Navy AI Training Program (April 2026) — three-course structure, NSWCCD partnership, 80 completions, Esser and King quotes, 2026 scheduling.

<https://news.vt.edu/articles/2026/04/Virginia-Tech-faculty-leverage-expertise-AI-to-train-researchers-engineers-for-US-Navy.html>

Engineering IT AI resources page — college-specific security and data-handling guidelines for AI tools. One of two unit-level IT AI resource pages in this inventory.

<https://it.eng.vt.edu/articles/ai-resources.html>

VT News on Ross provost appointment (November 2025) — transition from Engineering dean, January 2026 start date.

<https://news.vt.edu/articles/2025/11/president-ross.html>

VT News on Engineering dean search finalist forums (March 2026) — four finalists, open forums March 19–30, Ferruzzi as search chair.

<https://news.vt.edu/articles/2026/03/provost-engineering-dean-forums.html>

VT News on Engineering dean search committee (December 2025) — full committee membership, search scope.

<https://news.vt.edu/articles/2026/12/provost-engineering-dean-search-committee.html>

Virginia Business on Ross provost appointment — enrollment growth, research expenditures, IAC launch under Ross's deanship.

<https://virginiabusiness.com/julie-ross-virginia-tech-provost-2026/>

IAC AI/ML research pillar page — Sanghani Center on 5th floor of Academic Building One, Ramakrishnan as IAC AI/ML lead.

<https://iac.vt.edu/research-areas/research-ai-ml.html>

VT News on VirginiaAI Summit (September 2025) — VASEM event, 200+ attendees, co-chaired by Murali and Ramakrishnan, speaker list.

<https://news.vt.edu/articles/2025/09/vasem-summit.html>

VT News on Leaders+ OpenAI event (March 2026) — Kevin Weil (OpenAI VP) in conversation with Rishi Jaitly, 150+ attendees, Sands opening remarks, GPT-5.2 discussion.

<https://news.vt.edu/articles/2026/03/OpenAI-event.html>

NSI AI Governance Symposium (September 2025) — two-day event at Academic Building One, co-hosted with Guidehouse, trustworthy and resilient AI governance.

<https://link.vt.edu/events/nsi-symposium.html>

College of Engineering dean page: Warren Dixon, start date July 10, 2026.

<https://eng.vt.edu/about/leadership-and-directors/dean-warren-dixon.html>

VT News: Warren Dixon named dean (April 2026).

<https://news.vt.edu/articles/2026/04/eng-coe-warren-dixon-named-dean-of-the-college-of-engineering.html>

VT News: Q&A with new dean Warren Dixon (August 2026).

<https://news.vt.edu/articles/2026/07/eng-coe-engineering-questions-with-new-virginia-tech-dean-warren-dixon.html>

VT News: 2026 VASEM members (Ramakrishnan, DaSilva, Duma).

<https://news.vt.edu/articles/2026/08/research-virginia-academy-science-eng-med-2026-new-members.html>

College of Engineering minors page (non-restricted engineering minor).

<https://eng.vt.edu/undergraduate/minors.html>

Cardinal News: PCL Node partners (August 5, 2026).

<https://cardinalnews.org/2026/08/05/tech-briefs-virginia-tech-research-team-gets-20-million-grant-for-cloud-based-semiconductor-lab/>

VT News: Pediatric Health AI Innovation Hub (June 2026).

<https://news.vt.edu/articles/2026/06/virginia-tech-and-children-s-national-create-pediatric-ai-innova.html>

VT News: RNAbpFlow in Nature Methods (June 30, 2026).

<https://news.vt.edu/articles/2026/06/eng-cs-new-AI-tool-that-rivals-AlphaFold-3-in-mapping-RNA.html>

VT News: Yanardag NSF CAREER award (2026).

<https://news.vt.edu/articles/2026/07/pinar-yanardag-s-nsf-career-award-goal-democratizing-video.html>

VT News: Hasan NSF CAREER award (August 2026).

<https://news.vt.edu/articles/2026/08/coe-cs-40-billion-blind-spot-hasan-career-award.html>

Sanghani Center news: summer 2026 internships (July 6, 2026).

<https://sanghani.cs.vt.edu/news/2026/-summer-internships-enrich-academic-experience-for-sanghani-cent.html>

Sanghani Center news: AI-powered drone swarms (August 4, 2026).

<https://sanghani.cs.vt.edu/news/2026/drones.html>

Sanghani Center news: VR-ACCESS SEAD grant (May 27, 2026).

<https://sanghani.cs.vt.edu/news/2026/new-vr-access-will-advance-accessible-indoor-design-using-ai-and.html>

Rep. Griffith release: \$460,260 HHS award for AI in rural senior health care (July 2026).

<https://morgangriffith.house.gov/news/documentsingle.aspx?DocumentID=405776>

Microsoft AI Economy Institute cohort page (Rodriguez).

<https://www.microsoft.com/en-us/corporate-responsibility/topics/ai-economy-institute/stories/cohort-2/>

CS department administration page.

<https://website.cs.vt.edu/people/administration.html>

Amazon–Virginia Tech Initiative 2026-27 fellowship call (Year 5).

https://amazon.cs.vt.edu/content/dam/amazon_cs_vt_edu/year-5/2026%20-%20Call%20for%20Fellowship%20Nominations-%20VT_WriteUp.pdf

Sanghani Center Facts & Figures page (25 academic faculty, 5 research faculty, 100 students, 11 active grants, \$14.9M grants in force).

<https://sanghani.cs.vt.edu/about/facts-figures.html>

VT News on the CHI 2026 LLM autism-stereotype study (April 2026) — Wohn lead authorship, six-model audit, 345,000 responses, and findings summary.

<https://news.vt.edu/articles/2026/04/eng-cs-autism-AI-advice-personalization-or-bias.html>

ACM Digital Library record for the CHI 2026 paper — abstract, methods, and DOI.

<https://dl.acm.org/doi/10.1145/3772318.3791319>

VT News on the image protection vulnerabilities study (April 2026) — Viswanath team, eight case studies, six protection schemes.

<https://news.vt.edu/articles/2026/04/eng-cs-deepfake-cybersecurity-vulnerable-to-AI.html>

Unit 5. College of Liberal Arts and Human Sciences (CLAHS) + School of Education

Key Signals: CLAHS houses the disciplines most structurally positioned to interrogate AI's social implications — philosophy of technology, science and technology studies, communication law, teacher education — yet AI activity concentrates in individual faculty rather than college-level governance or programmatic infrastructure. Cayce Myers is VT's most publicly visible AI commentator, Ashley Shew anchors disability-technology scholarship with national reach, and the Allen/Hicks K-12 teacher training partnership represents CLAHS's most direct engagement with AI in educator preparation.

The College of Liberal Arts and Human Sciences encompasses 11 departments and 3 schools, approximately 4,200 undergraduates and 890 graduate students, with an endowment of approximately \$27.1 million. The college's 2024–2025 extramural research expenditures totaled \$16.3 million, up 19.5% year-over-year. Dean Laura Belmonte has led the college since 2019. AI-relevant activity in CLAHS is concentrated in individual faculty and cross-disciplinary research collaborations rather than college-level governance or programmatic infrastructure.

5.1 Governance & Policy

David Hicks (School of Education) sits on the university AI Working Committee (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). CLAHS established a college-level working group on generative AI in 2023, referenced in VT News coverage alongside the university-wide TLOS working groups. The stated purpose was to discuss challenges, opportunities, and discipline-specific norms across fields as different as engineering and art, writing and science. The working group appears to have operated as an informal discussion forum. No published governance document, position statement, or formal AI policy comparable to Pamplin's AI Taskforce output was produced.

The Department of English convened its own AI task force in 2023, led by creative writing professor Matthew Vollmer. Vollmer's syllabus permits students to use AI generators for brainstorming, research, and feedback, requiring disclosure — students are only prohibited from using AI to impersonate themselves when writing.

College-Level Silence on AI Strategy

CLAHS defers to university-wide governance for all institutional AI policy. No CLAHS-specific AI tool deployment or procurement decisions were identified. The college's 2024-25 annual report does not mention AI governance, AI strategy, or AI integration in its plans; the 2026 Giving Day campaign positions the college around "artificial intelligence, digital media, and global change." Two 2026 developments put college-level structure around AI for the first time. On May 18, 2026, the college announced a Human-Centered Futures Council, "a new volunteer advisory group" of 12 members, mostly alumni, meeting since February 2026, charged to "Advise the college on the creation of courses that fuse the humanities with technology and offer insight into how students who study the liberal arts are prepared for careers in today's artificial intelligence (AI)-driven world," to review new and revised Tech for Humanity curriculum, and to coach capstone courses for three Academy of Transdisciplinary Studies minors. Carlos Evia, associate dean of strategic initiatives and chief technology officer for the college, is described as "one of the leaders of the council": "The purpose of the council is to help us connect the programs to practice." The same announcement states: "By 2028, all students in the college will be required to take at least two Tech for Humanity courses before graduation." The Tech for Humanity initiative is "centered on teaching the positive and negative impacts of technology on people and their environments"; its two introductory courses are AI courses (see 5.3). Separately, Rishi Jaitly, a CLAHS professor of practice and distinguished humanities fellow in the Center for Humanities, co-chairs the university's AI Futures Working Group (Part I, Section I.B), which places a CLAHS-affiliated faculty member at the head of institutional AI vision-setting. College leadership: Evia; E. Thomas Ewing (Associate Dean for Graduate Studies and Research); Farida Jalalzai (Global Initiatives and Engagement); Monica Kimbrell (Undergraduate Academic Affairs); Debra Stoudt (Policy and Faculty Affairs).

The annual report notes significant federal funding challenges: the National Endowment for the Humanities canceled proposals from programs that have funded CLAHS faculty, and new federal rules restrict research in the human sciences, education, and humanities.

5.2 People

Dean

Laura A. Belmonte — Dean, CLAHS (since 2019). Professor of History. Her commencement address to the Class of 2026 addressed what AI cannot do (see 5.9); no public AI governance statement was identified.

School of Communication

Cayce Myers — Professor of public relations and Director of Graduate Studies, School of Communication. Among VT's most publicly visible AI commentators and the college's de facto external AI voice. Author of six books including *Artificial Intelligence and Law in the Communication Professions* (Routledge). Serves on the PRSA National Board of Directors. Created a 5-module AI professional development course for PRSA: "AI Tools for the Modern Communicator: Technology, Ethics and Future Trends." His PRSA bio states his current work addresses the ethical and legal regulation of AI, exploring how the technology can be integrated into PR practice and education.

Featured on VT's "Curious Conversations" podcast on AI's workforce and regulatory impact (October 2023). Uses ChatGPT in his advertising ethics course for student discussion about AI disclosure norms. Writes on AI, copyright, and teaching in the AI age for Times Higher Education (multiple columns), USA Today, and regional television.

In March 2026, provided expert analysis on the Meta/YouTube child safety verdicts for WSLS, framing the decisions as establishing a new level of legal accountability for social media with implications extending to AI companies. In October 2025, was quoted by Governing magazine on the use of AI deepfakes in Virginia's lieutenant governor race, characterizing the 2025 Virginia election cycle as a "political reformation of AI" and predicting that deepfake content would proliferate in 2026 as generative AI's visual quality improves. In February 2026, analyzed Virginia's partial government shutdown for WSLS. In January 2024, was quoted by WRIC-TV analyzing Governor Youngkin's AI executive order.

Adrienne Holz Ivory — Associate Professor, School of Communication. Co-PI on the CCI-funded "Fast Deployment of AI-based Disinformation Detector" project (2021) with Ruoxi Jia (PI, ECE/Sanghani) and Jia-Bin Huang (ECE/Sanghani). The project aimed to enable rapid deployment of AI-based disinformation detection tools using strategic data labeling and evaluation of public perception of AI-based content blocking.

School of Education

Dana A. Robertson — Director, School of Education (appointed August 2025). Professor of Reading and Literacy. President of the International Literacy Association (2025-2026). Was a 2023-24 TLOS Flexible Teaching Fellow, placing him within VT's teaching innovation infrastructure. Succeeded interim director Gerard Lawson.

Amy Allen — Associate professor, School of Education (VT News, August 2026; the CLAHS magazine, September 2026, gives "Associate Professor of History and Social Science Education"; sources through June 2026 give assistant professor). Uses ChatGPT in courses to teach future K-12 teachers about AI limitations and human discernment: "We've seen ChatGPT get it wrong and provide incorrect information. But this helps us teach students about human discernment and the importance of being knowledgeable about a topic before using a GenAI tool as a support." Partnered with David Hicks and the Virginia Tech Center for the Humanities to train in-service history teachers across the Commonwealth on AI integration, covering ethical implications, designing custom GPTs, and using ChatGPT for primary source analysis. On the need for discipline-specific AI professional development: "What we need is professional development by experts in specific fields that helps teachers understand what AI use looks like when it's not cheating." Co-author with Hicks of the "technocurious" concept, which Hicks describes as "an approach that holds curiosity and critique together." On the stakes for history education (August 2026): "If we as history educators don't try to take a stand about what AI looks like and how it might be used to support the aims of the discipline, then other people who don't have as much experience in history education are going to take control of that narrative."

David Hicks — Professor, History and Social Science Education. Co-PI on the CCI-funded project "Exploring the Impact of Human-AI Collaboration on Open Source Intelligence Investigations of Social Media Disinformation" (2021) with Kurt Luther (PI, CS) and Aaron Brantly (Co-PI, SPIA). In his teaching, Hicks has students investigate, play with, and try to break AI — and let it break them. He has created custom GPTs that scaffold inquiry, provide feedback on historical sources, and model disciplinary thinking, leveraging AI's ability to see, hear, and converse about sources to support both students and preservice teachers. Member of the Summer 2024 AI Faculty Cohort.

Department of English

Traci Gardner — Instructor, Technical & Scientific Communication. Created "Teaching Writing Across the Curriculum with AI" — a public resource site cataloging 250+ educational resources, linked from TLOS's generative AI guidance page (not on the ai.vt.edu resources page as of June 10, 2026). Maintains a second companion site, "Teaching with AI at Virginia Tech," housing syllabus policies and classroom resources. Co-authored the AWAC Statement on AI and Writing Across the Curriculum (Version 2.0,

endorsed September 8, 2025) as a primary author, co-leading the "AI Uses & Misuses" working group. The AWAC statement provides institutional and policy guidance for ethical AI use in writing instruction and student guidance for building agency with AI across the curriculum.

Additional English Department faculty in the Summer 2024 AI cohort: Jenny Lawrence (Senior Instructor, Associate Director of the Writing Center), Jen Mooney (Senior Instructor, Director of Technical and Scientific Communication), Ghazal Saeidfar (Instructor), Shakil Rabbi (Assistant Professor), Justin Greene (Advanced Instructor).

Department of Science, Technology, and Society (STS)

Saul Halfon — Associate Professor and Chair, Department of STS.

Ashley Shew — Professor, STS. Philosophy of technology, emerging technologies, disability studies, bioethics. Director of the Bioethics graduate certificate. Vice president/president-elect of the international Society for Philosophy and Technology (SPT). Former co-editor-in-chief (2020–2024) of the journal *Techné: Research in Philosophy and Technology*. Author of *Against Technoableism: Rethinking Who Needs Improvement* (2023). Co-editor (with Hanna Herdegen) of *Technology & Disability: An Open Resource* (2025), a forthcoming open-access textbook. Recipient of NSF CAREER Award (#1750260, "Disability, Experience, and Technological Imagination," 2018–2023). PI on the Andrew W. Mellon Foundation-funded "Just Dis Tech" project (2023–2026), creating a regional Disability Community Technology (DisCoTec) Center for disability-led technology futures. NSF Co-PI on a \$550,000 grant (per CLAHS 2024–2025 annual report). Led a 4-part workshop series on "AI in Higher Education: From Foundations to the Future" for Sage Publishing (2025). Affiliated with the Center for Future Work Places and Practices (ICAT). Participates in the STS Ph.D. program, Medicine & Society minor, and Disability Studies minor.

Featured as a keynote speaker at VT's November 2025 Excellence in Access and Inclusion Awards, where she addressed the risks of rushing technology adoption without deliberation about data collection, functionality transparency, and potential misuse of tools against disabled users. Her APA Blog syllabus showcase (June 2025) highlighted her Technology and Disability course as a model for STS pedagogy.

Fernanda R. Rosa — Assistant Professor, STS. Internet governance and design, data sovereignty, social justice, and global South. Just Tech Fellow (Social Science Research Council, \$200,000 over two years). NEH "Dangers and Opportunities of Technology" grant recipient (\$75,000) for her project

"Digital Inequalities in Latin America: The Effects of Code and Infrastructure in Indigenous Access to the Internet." VT Juneteenth Scholar (2022). Developed STS 4014 / CS 4014 "Algorithms and Society" — a cross-listed Pathways course with the Department of Computer Science covering social perspectives of algorithms, machine learning, privacy, and the social values embedded in algorithmic design. The course fulfills Pathways areas in Reasoning in Social Sciences and Intercultural & Global Awareness.

Philip R. Olson — Technology ethics. **Matthew Wisnioski** — Interplay between expertise and imagination in science and technology; STS graduate director. **Lee Vinsel** — Government, business, and technological change. No STS faculty list AI as a primary research focus; AI sits within broader specializations in technology ethics, social implications of computing, and governance.

School of Public and International Affairs (SPIA)

Aaron Brantly — Associate Professor, SPIA. Director of the Tech for Humanity Lab. Co-PI on the CCI-funded project "Exploring the Impact of Human-AI Collaboration on Open Source Intelligence Investigations of Social Media Disinformation" (2021) with Kurt Luther (PI) and David Hicks (Co-PI). Research spans cybersecurity, human rights, intelligence, and national security. Co-PI on a \$3.75M U.S. Army Corps of Engineers project and Co-PI on a \$2.1M Department of Defense project, per the CLAHS 2024–2025 annual report. Nataliya Brantly, the lab's deputy director, is "assessing the use of Artificial Intelligence (AI) in biomedical technologies to propose ways in which open-source AI can be regulated to enhance cybersecurity."

Rishi Jaitly — Professor of practice; distinguished humanities fellow, Center for Humanities. Co-chair of the university AI Futures Working Group (appointed spring 2026); emcee of the 2024 Atlas of AI Summit; founder of the VT Institute for Leadership in Technology; member of the college's Human-Centered Futures Council.

Carlos Evia — Associate Dean of Strategic Initiatives and Chief Technology Officer; coordinator of the Tech for Humanity minor; one of the leaders of the Human-Centered Futures Council.

Pamela Gilchrist — Director of K-12 Initiatives in the D.C. area and affiliate faculty, STEM education, School of Education; leads the K-12 Innovation Lab in Alexandria, whose programming uses the "Ask. Check. Create. Explain." framework for responsible AI use with students (VT News, August 2026).

Steve Hankey — Associate Professor and Director of Undergraduate Studies, SPIA; teaches "AI for Policymakers" alongside "Systems Thinking for Public Policy" and "Intro to Urban Analytics" (CLAHS magazine, summer 2026).

Cayce Myers — additional 2026 statements. On the AI slowdown debate (September 16, 2026): "This is a direct response to growing political and social pressures. A primary catalyst is the fear that AI's technological capabilities are evolving faster than our ability to establish proper guardrails." On the midterm elections (September 25, 2026): "While there are state level requirements for the use of these ads, there is still no comprehensive regulation over political advertising made with AI."

STS Graduate Students with AI Focus

Nyu (Nu) Wang — Ph.D. candidate. AI policy, robot judges, social justice. Published with Palgrave Macmillan, IEEE, and the NYU AI Now Institute. Researcher at MIT STS. Served at World Bank Group and United Nations.

Ralisa Dawkins — Ph.D. student. Relationship between persons with disabilities and AI systems. Co-PI on the AI-Accessibility research project with the School of Architecture (AAD).

Kendall [surname not confirmed in source] — Ph.D. student in STS and faculty member in ECE. Teaches AI, cybersecurity, and emerging technology governance courses. Research focus: AI risk management and governance of emerging technologies.

Summer 2024 AI Cohort — Additional CLAHS Participants

Paul Quigley (Associate Professor, History; Director, Virginia Center for Civil War Studies and Center for Humanities), Georgia Hodes (Assistant Professor, School of Neuroscience), Kimberly Loeffert (School of Performing Arts; listed as assistant professor on the 2024 cohort roster, associate professor per the SOPA profile modified August 10, 2026), Thomas Tucker (Associate Professor, School of Visual Arts).

5.3 Teaching & Curriculum

CLAHS does not offer an AI-named degree program or minor. It does offer the Tech for Humanity minor (18 credits, catalog 2026-27, hosted by the Academy of Transdisciplinary Studies, coordinator Carlos Evia), whose required introductory pair are AI courses: PHIL 1404 The Skeptic's Guide to AI and ENGL 2024 AI, Creativity, and the Art of Being Human (the latter first offered fall 2026). Mid-level electives include PHIL 3334 Ethical

Perspectives on Artificial Intelligence. A Pathways showcase page gives the minor as 15 credits; the catalog and the college page say 18. From 2028, every CLAHS student must take at least two Tech for Humanity courses, which makes the college the second at VT, after Pamplin, with an AI-bearing curricular requirement. CLAHS also supplies five of the named courses in the university-wide AI minor launched in fall 2026: ENGL 2024, FL 2744 AI and Global Languages, PHIL 1404, PHIL 3334, and CS/STS 4014 Algorithms and Society. FL 2744 is the probable identity of the AI and language/culture course referenced in 5.3 without a course number.

Allen and Hicks: Teaching History with Generative AI (2026)

A four-day "Teaching History with Chatty Geeps" workshop in July 2026 brought 10 Virginia history teachers to Virginia Tech for simulations on Japanese incarceration, child labor, and the Cuban Missile Crisis, "one of several since 2025 led by Allen and Hicks with funding support from the Center for Humanities." New funding from the Library of Congress Teaching with Primary Sources Partner Program supports three fall 2026 workshops in Blacksburg, Richmond, and Arlington with stipends for up to 60 teachers. A book, *Teaching History with Chatty Geeps: A Technocurious Approach to Generative AI in the Classroom*, is to be published free by Virginia Tech Publishing and Press. Allen and Hicks published "Defining and developing students' critical AI literacy" in *Times Higher Education* (May 27, 2026), defining critical AI literacy as understanding "how AI works and where it came from," evaluating "strengths and weaknesses for situational and pedagogical tasks," and assessing "the ethics of its use," and "The QFT in the Age of Generative AI" with the Right Question Institute.

AI-Adjacent Course Offerings

STS 4014 / CS 4014 — Algorithms and Society (3 credits): Cross-listed between STS and Computer Science. Developed by Fernanda Rosa in partnership with the CS department. Covers social perspectives of algorithms and implications for class, gender, race, ethnicity, geography, and disability status. Topics include machine learning, privacy, and the social and technical contexts for algorithmic design. Fulfills Pathways Concept Areas 3 (Reasoning in Social Sciences) and 11 (Intercultural & Global Awareness). Requires junior standing. This is the closest course to an "AI and Society" offering in the CLAHS catalog.

STS 2034 — Introduction to Technology and Race (3 credits):

Examines technology in contexts of colonialism, indigenous knowledge, globalization, and resistance. Addresses bias in design, surveillance,

biopolitics, and the digital divide. Fulfills Pathways areas in Critical Thinking Humanities, Identity & Equity in the U.S., and Intercultural & Global Awareness.

STS 2264 — Technology and Disability (3 credits): Taught by Ashley Shew. Fulfills Pathways areas including Critical Thinking Humanities. Listed in the Disability Studies, Innovation, Technology Family & Health, and Technology, Humanity & the Environment Pathways minors.

STS 3034 — Introduction to Data in Social Context (3 credits): Addresses the use of data to identify, reveal, explain, and interpret patterns of human behavior, identity, ethics, diversity, and interactions. Fulfills Pathways areas in Ethical Reasoning and Quantitative/Computational Thinking.

AI and Language/Culture Course

The college spotlighted a course on AI and language/culture in its promotional materials: "Discover how artificial intelligence is transforming language, culture, and global communication." Online, asynchronous, no prerequisites, open to all majors, fulfills Pathways areas. The course appears to be housed in Modern and Classical Languages and Literatures; exact course number not confirmed.

Instructional Design and Technology (IDT)

The IDT program in the School of Education trains instructional designers and performance consultants with a focus on learning technology design, development, and evaluation. No AI-specific curriculum within IDT was identified from public sources, though the program's scope positions it adjacent to AI-in-education work.

Faculty AI Integration Activity

CLAHS had significant participation in the TLOS-organized Teaching in the Age of Generative AI Summer 2024 Faculty Cohort: at least ten CLAHS-affiliated faculty members participated across English, History, Education, Neuroscience, Performing Arts, and Visual Arts. The cohort was led by TLOS/Provost's Office personnel and Engineering Education faculty, not CLAHS leadership.

Allen/Hicks K-12 Teacher Training

Allen and Hicks's partnership with the Virginia Tech Center for the Humanities trained in-service history teachers across the Commonwealth on AI integration. The training covered building broad understanding of AI,

considering ethical implications, designing custom GPTs, and using ChatGPT for primary source analysis. This included four in-person sessions per regional group and an accompanying resource-sharing website. This represents CLAHS's most direct engagement with AI in teacher preparation — training the people who will train K-12 students.

5.4 Tools & Technology

No CLAHS-specific AI tool deployments or procurement decisions were identified. CLAHS faculty and students use university-wide approved tools documented in Part I, Section IV. David Hicks's custom GPTs for historical inquiry represent individual faculty implementations rather than college-sanctioned deployments.

5.5 Research & Scholarship

AI-relevant research in CLAHS is concentrated in individual faculty and cross-disciplinary collaborations rather than center-level infrastructure. Two CCI-funded projects (2021) anchored in CLAHS faculty represent the most substantial AI research footprint.

CCI-Funded Disinformation Projects (2021)

Two of seven CCI-funded transdisciplinary projects on misinformation and cybersecurity involved CLAHS faculty:

"Exploring the Impact of Human-AI Collaboration on Open Source Intelligence Investigations of Social Media Disinformation" — PI: Kurt Luther (CS); Co-PIs: Aaron Brantly (SPIA/CLAHS), David Hicks (Education/CLAHS). Applied crowdsourcing and AI to parallelize open-source intelligence analysis of disinformation campaigns.

"Fast Deployment of AI-based Disinformation Detector" — PI: Ruoxi Jia (ECE/Sanghani); Co-PIs: Jia-Bin Huang (ECE/Sanghani), Adrienne Ivory (Communication/CLAHS). Developed strategic data labeling techniques for rapid AI-based disinformation detection and evaluated public perception of AI content moderation.

The seven CCI projects shared \$450,000 in total funding.

Rosa — Data Sovereignty and Algorithmic Justice

Fernanda Rosa's Just Tech Fellowship (\$200,000) and NEH "Dangers and Opportunities of Technology" grant (\$75,000) fund research on internet infrastructure and data sovereignty among Indigenous Tseltal and Zapoteco communities in Mexico. While not AI research per se, the work directly

addresses algorithmic governance, design justice, and the values embedded in computational infrastructure. Rosa also developed the "Algorithms and Society" Pathways course as a bridge between her research and undergraduate education.

Shew — Disability, Technology, and Technoableism

Ashley Shew's NSF CAREER Award (#1750260, 2018-2023) studied how disabled people narrate their relationships with technology — challenging dominant design assumptions. The Mellon Foundation "Just Dis Tech" project (2023-2026) created a disability-led technology center for humanistic reflection on technological futures. Her book *Against Technoableism* (2023) and co-edited open-access textbook *Technology & Disability: An Open Resource* (2025, with Hanna Herdegen) frame technology design from disabled perspectives. Additional NSF Co-PI grant (\$550,000, per CLAHS annual report).

AI-Accessibility Project

Housed in the School of Architecture (AAD) with Ralisa Dawkins (STS/CLAHS) as Co-PI. Investigates agency and accessibility in the age of AI — covering on-campus navigation, accessible public infrastructure, inclusive tourism, and medical facilities. Funded by an ICAT Major SEAD grant.

Myers — AI, Law, and Communication

Cayce Myers' *Artificial Intelligence and Law in the Communication Professions* (Routledge) and his PRSA professional development course represent scholarship with direct practitioner application. His current focus on ethical and legal regulation of AI connects VT faculty expertise to active professional and regulatory debates.

Wang — AI Policy and Robot Judges

Nyu Wang's publications on "Black Box Justice" and robot judges in China's court system span IEEE, Palgrave Macmillan, and the NYU AI Now Institute.

Gardner — WAC+AI National Resource

Traci Gardner's WAC+AI resource site, while pedagogical in nature, has achieved national-level reach, is linked from the TLOS generative AI guidance page, and her AWAC co-authorship positions VT faculty in national disciplinary policy on AI and writing. The AWAC Statement Version 2.0,

which Gardner co-authored, was unanimously endorsed by the AWAC Executive Board on September 8, 2025.

Brantly — Cybersecurity and National Security

Aaron Brantly's DoD (\$2.1M Co-PI), Army Corps (\$3.75M Co-PI), and NSA (\$544K Co-PI) grants, while cybersecurity-focused rather than AI-specific, support research infrastructure adjacent to AI applications in national security.

5.6 Events & Public Engagement

CLAHS does not operate its own AI-focused event series. Faculty participate in university-wide and external programming.

Allen/Hicks K-12 AI Professional Development

Partnered with the Virginia Tech Center for the Humanities to conduct AI integration training for in-service history teachers across the Commonwealth. This included four in-person sessions per regional group and an accompanying resource-sharing website.

Myers — Media and Public Commentary

Featured on VT's "Curious Conversations" podcast (October 2023) on AI, workforce, regulations, and copyright. Quoted by Governing magazine (October 2025) on AI deepfakes in Virginia political campaigns. Quoted by WSLS-TV (March 2026) on Meta/YouTube liability implications for AI companies. Quoted by WRIC-TV (January 2024) on Virginia Governor Youngkin's AI policy. Quoted by WDBJ7 (May 2023) on AI and disinformation proliferation. Multiple columns for Times Higher Education on AI in teaching and copyright. Interviewed by USA Today on AI travel scams. Led or contributed to PRSA webinars on updated AI ethics guidelines for PR professionals.

Shew — External Engagement

Led a 4-part workshop series "AI in Higher Education: From Foundations to the Future" for Sage Publishing (2025), covering foundational AI concepts, classroom applications, ethical concerns, and future trends. Keynote speaker at VT's November 2025 Excellence in Access and Inclusion Awards ceremony, addressing risks of technology adoption for disabled communities. APA Blog syllabus showcase (June 2025) for her Technology and Disability course.

2026 Giving Day Campaign

Positioned CLAHS around the intersection of technology and humanity: "How can technology be designed to serve people, communities, and the common good?"

Gaps and Observations

CLAHS is the unit at VT where the gap between individual faculty activity and institutional infrastructure is widest. Faculty in STS, Communication, Education, and English are doing nationally visible AI work — publishing books, shaping professional standards, training K-12 teachers, producing public commentary — without any college-level AI strategy, governance body, or dedicated resources to coordinate or amplify it.

No published output of the 2023 working group was found. The dean has now spoken: Belmonte's commencement address to the Class of 2026 addressed what AI cannot do, and the college promotes the clip under that framing; the college magazine carries the remarks as a video clip and no transcript was found, so whether they contain a governance position cannot be determined from public text. The college's annual report is silent on AI. The Giving Day campaign gestures toward AI as a fundraising theme. The 2026 follow-through is real and specific: an advisory council, a 2028 course requirement, and a CLAHS faculty member co-chairing the university's AI vision body. None of it is AI governance in the Pamplin sense; it is curriculum and advisory structure built around a "Tech for Humanity" label that treats AI as one instance of technology's effects on people.

The STS department is structurally positioned to anchor an "AI and Society" intellectual hub — Rosa's Algorithms and Society course, Shew's technoableism work, the department's broader expertise in technology ethics — but STS lists no faculty with AI as a primary research focus. AI sits within broader technology-and-society specializations.

CLAHS's K-12 teacher training work (Allen, Hicks, the Center for the Humanities) is arguably the college's highest-impact AI contribution, because it multiplies through the teachers those faculty train. Whether this scales beyond a handful of regional partnerships is not publicly documented.

Cross-References

- **College of Engineering / Sanghani Center (Unit 4):** CCI disinformation projects involved Sanghani-affiliated PIs (Jia, Huang, Luther). Algorithms and Society course is cross-listed with CS.

- **College of Architecture, Arts, and Design (Unit 9):** AI-Accessibility project housed in the School of Architecture with CLAHS Co-PI Dawkins.
- **ICAT (Unit 22):** Shew affiliated with Center for Future Work Places and Practices. AI-Accessibility funded by ICAT Major SEAD grant.
- **NSI/Hume Center (Unit 13/14):** Brantly's national security and cybersecurity research is adjacent to NSI activities.
- **Pamplin College of Business (Unit 3):** Contrast — Pamplin produced formal AI governance documents; CLAHS did not.
- **Part I, Section III:** Summer 2024 AI Faculty Cohort, AI Undergraduate Curriculum Development Grants.
- **Part I, Section IV:** University-wide approved AI tools used by CLAHS.
- **Part I, Section IX:** Myers identified as one of VT's most publicly visible AI commentators.

Sources

CLAHS home page and college overview — departments, schools, enrollment context.

<https://liberalarts.vt.edu/>

CLAHS leadership page — documents Dean Laura Belmonte's tenure and role.

<https://liberalarts.vt.edu/about/our-leadership.html>

CLAHS 2024-2025 annual report (PDF) — extramural research expenditures, federal funding challenges, Shew and Brantly grant totals. Does not mention AI governance or AI strategy.

https://liberalarts.vt.edu/content/dam/liberalarts_vt_edu/about/2024-2025-CLAHS-annual-report.pdf

VT News coverage of Provost's generative AI initiative (September 2023) — references CLAHS working group alongside university-wide TLOS efforts.

<https://news.vt.edu/articles/2023/09/provost-faculty-generative-AI.html>

CLAHS generative AI news article (September 2023) — describes the college-level AI working group and its purpose of discussing discipline-specific norms.

<https://liberalarts.vt.edu/news/articles/2023/09/liberalarts-generative-ai.html>

Collegiate Times article on VT faculty and ChatGPT — includes Matthew Vollmer's syllabus policy and English department AI task force.

https://www.collegiatetimes.com/news/virginia-tech-faculty-weigh-in-on-chatgpt-and-other-generative-ai/article_96a4924a-7118-11ee-b1b3-d7e130676679.html

CLAHS Giving Day 2026 campaign page — positions the college around AI, digital media, and global change.

<https://givingday.vt.edu/giving-day/107794/department/107810>

CLAHS course advising page — lists the AI and language/culture course for all majors, online asynchronous format.

<https://liberalarts.vt.edu/beyond-the-classroom/academic-and-career-advising/CLAHScourses.html>

Cayce Myers faculty profile — title, research areas, and communication expertise.

<https://liberalarts.vt.edu/departments-and-schools/school-of-communication/faculty/cayce-myers.html>

Myers, *Artificial Intelligence and Law in the Communication Professions* (Routledge) — Amazon listing confirming publication and scope.

<https://us.amazon.com/Artificial-Intelligence-Law-Communication-Professions/dp/1032730730>

PRSA profile for Cayce Myers — board membership, statement on AI ethics and legal regulation research.

<https://www.prsa.org/person/myers-cayce>

PRSA AI professional development course — Myers's 5-module "AI Tools for the Modern Communicator" course.

<https://www.prsa.org/professional-development/ai-tools-for-the-modern-communicator-technology-ethics-and-future-trends>

VT "Curious Conversations" podcast with Myers (October 2023) — AI's impact on workforce, regulations, and copyright.

<https://news.vt.edu/articles/2023/10/research-curiousconversationsmyers.html>

VT Research podcast page for Myers — additional context on the Curious Conversations episode.

<https://www.research.vt.edu/news/podcast/2023/ai-and-the-workforce-with-cayce-myers.html>

VT News article on Trump AI policy (2025) — Myers quoted analyzing executive order implications.

<https://news.vt.edu/articles/2025/07/Trump-artificial-intelligence-AI-action-plan-executive-order.html>

WSLS coverage of Meta/YouTube child safety verdicts (March 2026) — Myers provides expert analysis on legal accountability implications for AI companies.

<https://www.wsls.com/news/local/2026/03/29/virginia-tech-experts-break-down-meta-youtube-court-losses-possibility-of-appeal/>

Governing magazine article on AI deepfakes in Virginia politics (October 2025) — Myers quoted on the "political reformation of AI" in the 2025 election cycle and projected proliferation of deepfake content.

<https://www.governing.com/politics/a-fake-debate-in-virginia-raises-real-questions-about-ai-in-politics>

WRIC-TV coverage of Youngkin AI executive order (January 2024) — Myers quoted on workforce impact and industry self-regulation.

<https://www.wric.com/news/virginia-news/youngkin-willing-to-change-virginias-artificial-intelligence-policy/>

WDBJ7 coverage of AI and disinformation (May 2023) — Myers on disinformation proliferation and media literacy.

<https://www.wdbj7.com/2023/05/26/vt-professor-talks-ais-effect-disinformation/>

Times Higher Education campus author page for Myers — lists multiple columns on AI in teaching and copyright.

<https://www.timeshighereducation.com/campus/authors/cayce-myers>

CCI disinformation projects announcement (July 2021) — describes seven funded projects including two with CLAHS faculty.

<https://news.vt.edu/articles/2021/07/cci-disinfoprojects.html>

CCI project page for AI-based Disinformation Detector — Ivory Co-PI role, project scope, and strategic data labeling approach.

<https://cyberinitiative.org/research/funded-projects/2021-curbing-disinformation/ai-based-disinformation-detector.html>

CLAHS news on Brantly, Hicks, and Ivory CCI projects — college-level coverage of the three faculty members' CCI-funded research.

<https://liberalarts.vt.edu/news/academic-news/2021/09/aaron-brantly-david-hicks-and-adrienne-ivory-projects-funded-by-commonwealth-cyber-initiative.html>

VT News on Dana Robertson appointment as School of Education director (August 2025) — background, ILA presidency, succession from Lawson.

<https://news.vt.edu/articles/2025/08/clahs-dana-robertson-named-director-of-the-virginia-tech-school-of-education.html>

Robertson faculty profile — research areas and program affiliations.

<https://liberalarts.vt.edu/departments-and-schools/school-of-education/faculty/dana-a-robertson.html>

TLOS Flexible Teaching Fellows page for Robertson (2023–24) — documents his participation in VT's teaching innovation infrastructure.

<https://tlos.vt.edu/partners/flexible-teaching-fellows/2023-24-fellows/robertson-dana.html>

International Literacy Association leadership page — confirms Robertson as ILA President (2025–2026).

<https://www.literacyworldwide.org/about-us/our-leadership/dana-robertson>

Amy Allen faculty profile — title, Fulbright, elementary education program.

<https://liberalarts.vt.edu/departments-and-schools/school-of-education/faculty/amy-allen.html>

VT News article on AI in education and teacher training (July 2025) — Allen and Hicks quotes on AI literacy, professional development, and the Center for the Humanities partnership. Also quotes Andrew Katz (Engineering Education) and Sally Hamouda (CS).

<https://news.vt.edu/articles/2025/07/artificial-intelligence-education-teacher-classroom-training-tools-future.html>

VT News "Teaching students to navigate a world with AI" (April 2025) — Hicks quotes on custom GPTs, breaking AI, and disciplinary thinking. Features Summer 2024 AI cohort members.

<https://news.vt.edu/articles/2025/04/provost-teaching-artificial-intelligence.html>

Summer 2024 AI Faculty Cohort site — lists all CLAHS participants, syllabus policies, and Gardner's materials.

<https://aiteaching.vt.domains/about-this-site/>

Traci Gardner's Teaching WAC with AI resource site — 250+ curated educational resources on AI and writing instruction.

<https://teachingwacwithai.tracigardner.com/>

Traci Gardner's Teaching with AI at Virginia Tech companion site — syllabus policies and classroom resources for VT faculty.

<https://aiteaching.vt.domains/syllabus-statements/ai-policies-by-traci-gardner/>

AWAC Statement on AI and Writing Across the Curriculum (Version 2.0, 2025) — Gardner as primary author and "AI Uses & Misuses" working group co-lead. Unanimously endorsed by AWAC Executive Board September 8, 2025.

<https://wacassociation.org/ai-statement/>

VT ai.vt.edu resources page — June 10, 2026 version; does not list Gardner's site.

<https://ai.vt.edu/resources.html>

TLOS generative AI guidance page — references Gardner's resource site alongside AI Essentials modules and policy guidance. Last updated August 17, 2026.

<https://tlos.vt.edu/resources/generative-ai.html>

Ashley Shew faculty profile — title, research areas, program affiliations, awards.

<https://liberalarts.vt.edu/departments-and-schools/departments-of-science-technology-and-society/faculty/ashley-shew.html>

Technology and Disability site (Shew) — documents the forthcoming open-access textbook co-edited with Herdegen, the Just Dis Tech project (2023–2026), and the DisCoTec Center.

<https://techanddisability.com/>

Shew speaker profile (Collective Speakers) — SPT vice president/president-elect, Sage workshop series, *Against Technoableism*, and CAREER award.

<https://collectivespeakers.com/speakers/dr-ashley-shew/>

Center for Future Work Places and Practices (ICAT) profile for Shew — confirms ICAT affiliation and Mellon project details.

<https://cfwpp.icat.vt.edu/people/ashley-shew.html>

VT News on Excellence in Access and Inclusion Awards (November 2025) — Shew's keynote on technology adoption risks for disabled communities.

<https://news.vt.edu/articles/2025/11/sa-dos-ssd-access-and-inclusion-awards.html>

APA Blog syllabus showcase — Shew's Technology and Disability course as a model for STS pedagogy (June 2025).

<https://blog.apaonline.org/2025/06/18/technology-and-disability-ashley-shew-damien-p-williams-and-joshua-earle/>

Fernanda Rosa faculty profile — research areas, data sovereignty, internet governance.

<https://liberalarts.vt.edu/departments-and-schools/departments-of-science-technology-and-society/faculty/fernanda-rosa.html>

VT News on Fernanda Rosa's research (April 2024) — Just Tech Fellowship, Indigenous community work, Halfon quote.

<https://news.vt.edu/articles/2024/04/clahs-research-fernanda-rosa.html>

SSRC Just Tech Fellow profile for Rosa — fellowship amount, research description, and network context.

<https://just-tech.ssrc.org/our-network/fernanda-rosa/>

NEH "Dangers and Opportunities of Technology" grant awards (August 2023, PDF) — confirms Rosa's \$75,000 grant.

<https://www.neh.gov/sites/default/files/inline-files/Aug%202023%20DOT%20Awards.pdf>

STS course descriptions in VT catalog — Algorithms and Society (4014), Technology and Race (2034), Technology and Disability (2264), Data in Social Context (3034).

<https://catalog.vt.edu/undergraduate/course-descriptions/sts/>

STS faculty and staff directory — Olson, Wisnioski, Vinsel, and other faculty research areas.

<https://liberalarts.vt.edu/departments-and-schools/departments-of-science-technology-and-society/faculty-staff.html>

STS graduate students page — Wang, Dawkins, and Kendall profiles and research areas.

<https://liberalarts.vt.edu/departments-and-schools/department-of-science-technology-and-society/graduate-students.html>

Aaron Brantly CCI researcher directory — cybersecurity, human rights, national security research profile.

<https://cyberinitiative.org/research/researcher-directory/brantly-aaron.html>

Brantly profile at Foreign Policy Research Institute — additional institutional affiliation and expertise areas.

<https://www.fpri.org/contributor/aaron-brantly/>

IDT program page — program description and scope of instructional design and technology training.

<https://liberalarts.vt.edu/departments-and-schools/school-of-education/academic-programs/instructional-design-and-technology.html>

AI-Accessibility project page (School of Architecture) — Dawkins as Co-PI, ICAT Major SEAD grant funding, project scope.

<https://arch.vt.edu/experiential-learning/research-and-creative-scholarship/ai-accessibility.html>

AI Undergraduate Curriculum Development Grants page — grant structure, timeline, and deliverables. The recipients page lists six CLAHS-led proposals with names and departments.

<https://www.undergraduate.provost.vt.edu/ouc/ai-undergraduate-curriculum-development-grants.html>

VT News: Human-Centered Futures Council and 2028 Tech for Humanity requirement (May 18, 2026).

<https://news.vt.edu/articles/2026/04/clahs-human-centered-futures-council.html>

Tech for Humanity minor, undergraduate catalog 2026-2027.

<https://catalog.vt.edu/undergraduate/minors/tech-for-humanity-minor/>

Tech for Humanity minor, college page (coordinator Evia).

<https://liberalarts.vt.edu/academics/majors-and-minors/tech-for-humanity-minor.html>

Pathways showcase page for the Tech for Humanity minor (credit count discrepancy).

<https://www.pathways.prov.vt.edu/minors/showcase/tech-humanity.html>

CLAHS magazine, summer 2026: "Rethinking learning in the age of AI" (Vollmer, Mooney, Hicks, Allen, Hankey).

<https://liberalarts.vt.edu/magazine/stories/summer-2026/clahs-rethinking-learning-in-the-age-of-ai.html>

CLAHS magazine, summer 2026 issue index (Belmonte commencement clip description).

<https://liberalarts.vt.edu/magazine/issues/summer-2026.html>

VT News: AI in history classrooms, Allen and Hicks workshops and Library of Congress funding (August 13, 2026).

<https://news.vt.edu/articles/2026/08/clahs-AI-in-history-classrooms.html>

VT News: responsible AI in schools, Gilchrist and the K-12 Innovation Lab (August 2026).

<https://news.vt.edu/articles/2026/08/clahs-responsible-ai-in-schools.html>

Times Higher Education: Allen and Hicks on critical AI literacy (May 27, 2026).

<https://www.timeshighereducation.com/campus/defining-and-developing-students-critical-ai-literacy>

Right Question Institute: The QFT in the Age of Generative AI.

<https://rightquestion.org/resources/the-qft-in-the-age-of-generative-ai/>

Tech for Humanity Lab site (Brantly, N. Brantly).

<https://techforhumanitylab.clahs.vt.edu/new-page/>

Newswise: Myers on the midterm elections and AI (September 25, 2026).

<https://www.newswise.com/articles/expert-discusses-the-midterm-elections-and-the-roles-that-ai-plays>

Cardinal News: New Music + Technology Festival with AI works (September 9, 2026).

<https://cardinalnews.org/2026/09/09/tech-briefs-animatronics-ai-and-more-at-virginia-techs-music-technology-festival/>

Unit 6. College of Natural Resources and Environment (CNRE)

Key Signals: CNRE's AI signals are entirely faculty-driven; no college-level AI governance was publicly documented. Its most significant AI contribution to the institution is Junghwan Kim's co-leadership of the landmark VT-wide generative AI perceptions study that directly informed institutional policy development. Quinn Thomas and the Center for Ecosystem Forecasting anchor physics-guided machine learning research with cross-college reach.

CNRE is the only college in Virginia specializing in natural resource education, research, and outreach. Departments include Geography, Forest Resources & Environmental Conservation, Fish & Wildlife Conservation, Sustainable Biomaterials, and Packaging Systems & Design. Dean Saskia L. van de Gevel succeeded Paul M. Winistorfer effective July 1, 2025, coming from Appalachian State University's Department of Geography and Planning. Winistorfer retired after a 16-year tenure that emphasized innovation and new degree programs but produced no publicly documented AI strategy. Van de Gevel's appointment announcement and early public statements emphasize transdisciplinary collaboration, environmental stewardship, and K-12 geographic education; AI-specific priorities are not mentioned.

6.1 Governance & Policy

No formal CNRE-specific AI policy, AI task force, or AI position statement has been publicly documented. CNRE follows the university-wide AI framework. Dean van de Gevel's message in the inaugural issue of the college's digital magazine *Field Notes* (spring 2026) lists strategic hires including "a Center for Geospatial Information Technology director of research and development," a college-wide visioning effort, and "a new leadership model for CGIT research and development with the Virginia Tech National Security Institute in Arlington," with priorities in "geospatial intelligence, environmental security, student success, and applied research." AI is not mentioned. On September 24, 2026, the university announced that Daniel Sui, outgoing senior vice president for research and innovation, "will return to the faculty in Virginia Tech's College of Natural Resources and Environment with a focus on GEO AI, world models, and geospatial intelligence," which will place the university's former chief research officer in the college as an AI-focused faculty member.

6.2 People

Junghwan Kim — Assistant Professor of Geography; Director, Smart Cities for Good lab. CNRE's most prominent AI researcher and the faculty member whose work most directly shaped VT's institutional AI governance. A Harvard Center for Geographic Analysis postdoctoral fellow prior to VT. Research spans GeoAI, generative AI, AI literacy, urban digital twin, geospatial data privacy and ethics, smart cities, and environmental health. 1,504 citations (Google Scholar).

Kim co-led (with TLOS) the landmark study of VT faculty and student perceptions of generative AI. The Fall 2023 survey reached 982 students and 76 faculty. Published in *Innovative Higher Education* (Springer, 2025), the study found students rated GenAI tools as easier and more enjoyable to use than faculty; STEM students were more positive than non-STEM; male STEM students were the most frequent users; and female non-STEM students the least frequent. Co-authors include Dale Pike (TLOS), Jacob R. Grohs (Engineering Education), Hoda Eldardiry (CS), Larry A. Cox II (TLOS), James Weichert, and Michelle Klopfer. The study was funded by TLOS and directly informed VT's institutional AI policy timeline.

Kim's AI-specific publications include: multimodal LLMs as built environment auditing tools (*The Professional Geographer*, October 2024); comparing spatial querying capacity of ChatGPT vs. Gemini Pro (*The Professional Geographer*, January 2025); generative AI in undergraduate education (*The Professional Geographer*, June 2025, multi-institutional study across five U.S./Canadian universities); generative AI tools for climate literacy (*Communications Earth & Environment*, 2024); place identity from a generative AI perspective (*Humanities and Social Sciences Communications*, 2024); geographic biases in ChatGPT on environmental justice (*Telematics and Informatics*, 2023); fine-tuned LLM framework for geospatial analysis achieving 89.7% accuracy, a 49.2 percentage point improvement over baseline (ISPRS *International Journal of Geo-Information*, 2025, funded by ISCE at VT and OpenAI's Researcher Access Program); and a January 2026 book chapter (with Hongyu Zhang and Grant McKenzie) on generative AI and GIScience education. Kim also co-authored a study on CS student attitudes toward AI ethics and policy (with James Weichert, Dayoung Kim, Qin Zhu, and Hoda Eldardiry; August 2025). In May 2026 Kim published "Imagining the city: Evaluating visual realism and identity in AI-generated cityscapes using DALL·E 2" (*Technology in Society*), in which 129 participants rated AI-generated images of Blacksburg, Richmond, Virginia Beach, and Washington, D.C.; the model "struggled most with

landmarks and culturally significant features" (Blacksburg's Hokie Stone was absent) and rendered larger cities more accurately. Kim: "Generative AI can be a powerful tool. But we also need to understand where it falls short and who may be left out." In a June 24, 2026 *Field Notes* essay, "Rethinking Education for the AI Era," Kim wrote that "AI literacy is about understanding the capabilities and limitations of AI (e.g., biases, negative environmental impacts of using AI)" and that "students must therefore learn how to work effectively with AI rather than simply rely on it," and referenced his involvement in an NSF-funded Digital Twin Research, Innovation, and Collaboration Hub (DT-RICH) planning grant.

Quinn Thomas — Professor, Department of Forest Resources and Environmental Conservation (CNRE) and Department of Biological Sciences (College of Science). Co-Director, Virginia Tech Center for Ecosystem Forecasting. Cathie and Tom Woteki Data Science Faculty Fellow. Thomas's research integrates ML/data science methods with ecological modeling for near-term environmental forecasting. He collaborates extensively with Anuj Karpatne (CS/Sanghani) on knowledge-guided machine learning (KGML) for lake water quality prediction. Key publications include physics-guided architecture of neural networks for lake temperature modeling (SIAM, 2020; also a chapter in Karpatne's KGML book, 2023). Thomas co-leads the NEON Ecological Forecasting Challenge, generating 100,000+ freshwater forecasts using various ML and statistical methods (*Ecological Applications*, 2025).

Cayelan Carey — Professor of Biological Sciences (College of Science) and Co-Director of the Center for Ecosystem Forecasting. Collaborates with Thomas and Karpatne on physics-guided ML for freshwater systems. \$19.6M research portfolio. Documented primarily in Unit 2.

Carrie Fearer — CNRE faculty. Recipient of an Academy of Data Science Discovery Fund (ADSDF) grant for tree identification using near-infrared spectroscopy and ML.

Andrea Renshaw — Lab and Research Specialist, CALS. Co-author on Kim's ChatGPT vs. Gemini spatial querying study. Research focuses include phytoremediation, GeoAI, and smart city technologies.

Pipiet Larasatie — Assistant Professor, Sustainable Biomaterials, and Virginia Cooperative Extension specialist. PI of the \$200,000 AgriProspects award "Logging Smarter: AI-Enhanced Hardwood Bucking Training for Adult Workforce Development" (2026), with Brian Bond (professor and associate dean for Extension, Outreach, and Engagement), Scott Barrett

(associate professor and Extension specialist), and Chris Thomas (assistant professor, Sanghani Center).

Narcisa Pricope — Director of Research and Development, Center for Geospatial Information Technology (the CGIT people page lists the title without a date; the dean's spring 2026 message names the position, not the person). Brandon Herndon is CGIT Director of Operations.

6.3 Teaching & Curriculum

Thomas teaches FREC 3044 (Environmental Data Science) and FREC 5884 (Ecological Forecasting). Kim teaches GIS and spatial data science courses integrating generative AI tools and classroom ethics exercises. He was featured in a VT News article ("Teaching students to navigate a world with AI," April 2025) and co-authored a multi-institutional study on generative AI in undergraduate education across five U.S./Canadian universities.

Kim participated in the TLOS-organized Teaching in the Age of Generative AI Summer 2024 Faculty Cohort, representing CNRE/Geography.

No CNRE-specific AI teaching guidance or college-level AI curriculum initiatives have been publicly documented. The first college-channel statement on AI in education identified in this inventory is Kim's June 2026 *Field Notes* essay (see 6.2), which argues that "the value of higher education increasingly lies not in memorizing information, but in developing the ability to critically evaluate information" and calls for experiential learning built "upon a strong foundation of disciplinary knowledge and computational thinking." It is a faculty essay, not guidance.

6.4 Tools & Technology

Institutional AI tools are documented in Part I, Section IV. No CNRE-specific AI tools or platforms have been publicly documented.

6.5 Research & Scholarship

Kim's AI Research Grants

Whole Health Consortium Seed Grant: Geospatial Analysis and Optimization for Veterans' Healthcare Access in Pain Management (PI, 2025). ICTAS Center of Excellence grant: Assessing older adults' perceptions in autonomous human-AI transportation systems (Co-PI, 2024–25). 4-VA Collaborative Research grant: Green space exposure index using AI methods and eye-tracking (PI, 2024–25). 4-VA Pre-Tenure Faculty Research Grant: Examining health outcomes using AI and GIScience methods (PI,

2023). ISCE Social Science PREP grant: Assessing urban walkability with AI methods (PI, 2022–23). ISCE and OpenAI's Researcher Access Program: Fine-tuning LLMs for geospatial analysis (2025).

AgriProspects AI Training Award (2026)

Larasatie's "Logging Smarter" project "will apply artificial intelligence, computer vision, and image generation to create interactive training modules that simulate the complexity of real field conditions," integrated into the SHARP Logger Program; VT News describes it as "an early, collaborative initiative of the newly established Sustainable Forest Supply Chain Collaborative." The \$200,000 award comes from the AgriProspects Workforce Development Network, itself funded by USDA NIFA (award 2023-67037-40533); the round drew 74 applications for \$1 million in awards across two tracks (digital credential infrastructure for Extension workforce success; AI education and awareness within Extension and its communities) or combinations of both. It is the first externally funded AI project documented at the CNRE-VCE interface and the first documented Sanghani Center collaboration in CNRE forestry. Kim also holds a 2026 CDRS Collaborative Research Grant (\$10,000) with Eunju Hwang (School of Design) for "Human-Centered GeoAI for Age-Friendly Walkability" (Unit 11).

Center for Ecosystem Forecasting

Thomas and Carey's research integrates AI, ML, sensor technologies, and cyberinfrastructure for real-time water quality prediction. The center collects data from 15 lakes and reservoirs across three continents with daily 30-day forecasts. Partnership with Western Virginia Water Authority. Physics-guided neural networks collaboration with Karpatne (Sanghani Center). Hosted the Ecological Forecasting Initiative annual meeting at VT (May 2025). Recent publications include "Harnessing stability-guided interpretable machine learning for understanding and predicting water quality in freshwater ecosystems" (Shukla et al., *Journal of Geophysical Research: Biogeosciences*, 2026) and "What can we learn from 100,000 freshwater forecasts?" (Olsson et al., *Ecological Applications*, 2025).

6.6 Events & Programming

CNRE-specific AI events remain thin. Kim's VT News features and his participation in university-wide AI programming (Summer 2024 cohort) constitute the college's primary public-facing AI engagement. A VCE program listing, "Looking Towards the Future: Artificial Intelligence in the Forest Products Industry," organized with the Department of Sustainable

Biomaterials, exists on the Extension registration site with no date shown and enrollment closed (Unit 7).

Gaps and Observations

CNRE's AI profile is a two-person story. Kim produces the GeoAI research and institutional policy contributions; Thomas and Carey run the Center for Ecosystem Forecasting with its ML-driven predictive modeling. No CNRE-specific governance, curriculum initiative, event series, or tool deployment was publicly documented; the college defers to the university level.

The dean transition from Winistorfer to van de Gevel has not introduced a publicly visible AI agenda; the new priorities are geospatial intelligence and an NSI-linked CGIT model. Two things changed in 2026 without the college saying so: an AI training grant arrived through Extension with a Sanghani collaborator, and the university's former research chief announced a return to the college faculty with a GeoAI focus. Whether either produces a college-level AI statement is not addressed in the CNRE pages reviewed (Field Notes spring 2026, leadership page).

Kim's dual role — as both a prolific GeoAI researcher and the co-author of VT's foundational GenAI perception study — gives him outsized institutional importance relative to his college's profile. The GenAI perception study is arguably the single most policy-influential piece of AI scholarship produced by any VT faculty member, yet no CNRE AI strategy that builds on it was publicly documented.

Cross-References

- **Part I, Section III:** Kim/Pike GenAI perception study directly informed institutional AI guidance timeline.
- **TLOS (Unit 18):** Kim co-authored the GenAI perception study with Dale Pike and Larry Cox (TLOS). Kim participated in the Summer 2024 AI Faculty Cohort.
- **College of Science / Academy of Data Science (Unit 2):** Thomas and Carey hold joint appointments. Center for Ecosystem Forecasting is cross-college. Fearer received ADSDF funding.
- **College of Engineering / Sanghani Center (Unit 4):** Karpatne collaborates with Thomas and Carey on physics-guided ML. Grohs and Eldardiry co-authored the GenAI perception study.
- **ICTAS (Unit 22):** Kim's autonomous human-AI transportation study funded by ICTAS Center of Excellence.

- **CLAHS / STS (Unit 5):** Kim co-authored CS student AI ethics study with Weichert and Eldardiry — cross-college AI literacy research.

Sources

Kim faculty profile (VT Geography) — grants, publications, research areas, Smart Cities for Good lab.

<https://geography.vt.edu/people/junghwan-kim.html>

Kim personal research site — full publication list, grant history, and research interests including urban digital twin and AI literacy.

<https://www.junghwankim.org/research>

Kim personal bio page — educational background, Harvard postdoc, Yonsei and UIUC degrees.

<https://www.junghwankim.org/about-dr-kim>

VT News on geographic biases in ChatGPT (December 2023) — Kim's environmental justice study using GPT-4 across 3,108 U.S. counties.

<https://news.vt.edu/articles/2023/12/cnre-geographic-biases-ai.html>

EurekAlert press release for Kim's ChatGPT environmental justice study — photo and summary.

<https://www.eurekalert.org/news-releases/1063373>

Kim, multimodal LLMs as built environment auditing tools — *The Professional Geographer*, October 2024.

<https://www.tandfonline.com/doi/full/10.1080/00330124.2024.2434455>

Kim, generative AI in undergraduate education — *The Professional Geographer*, June 2025, multi-institutional study across five universities.

<https://www.tandfonline.com/doi/full/10.1080/00330124.2025.2478075>

Kim et al., fine-tuned LLM framework for geospatial analysis — *ISPRS International Journal of Geo-Information*, 2025. Funded by ISCE and OpenAI Researcher Access Program. 89.7% accuracy, 49.2 percentage point improvement.

<https://vtechworks.lib.vt.edu/server/api/core/bitstreams/c23884bc-d5f8-447f-96bc-61940e4d3ee7/content>

Center for Ecosystem Forecasting home page — mission, partner lakes, daily forecasts, and cyberinfrastructure overview.

<https://ecoforecast.centers.vt.edu/>

Center for Ecosystem Forecasting publications page — Shukla et al. (2026) and Olsson et al. (2025) listed among recent outputs.

<https://ecoforecast.centers.vt.edu/publications.html>

Quinn Thomas personal site — research interests, publication list, and joint appointment details.

<https://rquinnthomas.com/>

VT News on Saskia van de Gevel appointment as CNRE dean (May 2025) — background, Provost Clarke's statement, and succession from Winistorfer.

<https://news.vt.edu/articles/2025/05/cnre-van-de-gevel.html>

VT News interview with van de Gevel (July 2025) — leadership style, CNRE priorities, no AI-specific agenda mentioned.

<https://news.vt.edu/articles/2025/07/cnre-meet-saskia-van-de-gevel.html>

CNRE leadership and administration page — confirms van de Gevel as current dean.

<https://cnre.vt.edu/about/leadership-administration.html>

VT News "Teaching students to navigate a world with AI" (April 2025) — features Kim among Summer 2024 AI Faculty Cohort participants.

<https://news.vt.edu/articles/2025/04/provost-teaching-artificial-intelligence.html>

Summer 2024 AI Faculty Cohort site — Kim listed as CNRE/Geography participant.

<https://aiteaching.vt.domains/about-this-site/>

CNRE Field Notes, spring 2026: message from the dean.

<https://cnre.vt.edu/magazine/issues/spring-2026/message-from-the-dean.html>

CNRE Field Notes: Kim, "Rethinking Education for the AI Era" (June 24, 2026).

<https://cnre.vt.edu/magazine/issues/spring-2026/rethinking-education-for-the-ai-era.html>

VT News: AgriProspects AI-enhanced logger training award (April 2026).

<https://news.vt.edu/articles/2026/04/cnre-vce-grant-ai-training.html>

Extension Foundation: AgriProspects \$1 million in workforce development awards (January 28, 2026).

<https://extension.org/2026/01/28/agriprospects-announces-1-million-in-extension-workforce-development-projects-around-ai-and-credentialing/>

VT News: when AI imagines cities, smaller communities can disappear (May 2026).

<https://news.vt.edu/articles/2026/05/cnre-research-AI-cities.html>

EurekAlert: Kim et al., Technology in Society, DALL·E 2 cityscapes (May 2026).

<https://www.eurekalert.org/news-releases/1129373>

CGIT people page (Pricope, Herndon).

<https://www.cgit.vt.edu/people.html>

Unit 7. Virginia Cooperative Extension (VCE)

Key Signals: VCE has produced its own generative AI guidance document (VCE-1213) — only the second unit-level AI policy document identified in this inventory, after Pamplin's AI Position Statement. VCE's statewide network of 120+ locations makes it the primary conduit for deploying AI-enabled agricultural technologies to Virginia producers.

VCE is a partnership of Virginia Tech and Virginia State University, with approximately 120 locations statewide: the Blacksburg campus, 11 Agricultural Research and Extension Centers, and 108 local offices. Director: Michael Gutter (also CALS Associate Dean). VCE delivers applied research to producers and communities across the Commonwealth.

7.1 Governance & Policy

VCE published formal guidance for generative AI use as VCE-1213 (April 2025; author of record Lori Greiner; unrevised as of the evidence snapshot date), listed on Virginia Tech's central AI resources page, now at ai.vt.edu/guidance/resources.html (June 2026), and publicly available at pubs.ext.vt.edu. VCE's 2025-2035 Strategic Plan (VCE-1227, November 2025, author Michael Gutter) carries one AI line under its organizational-excellence priority: "Promote transparency and leverage emerging technologies, including artificial intelligence, to improve efficiency and effectiveness."

Key Provisions of VCE-1213

AI tools may assist with presentation materials, brainstorming, headlines and keywords, summarizing articles, HTML conversion, multilingual translation, and alt text generation. Microsoft Copilot through Edge is the recommended AI tool, aligning with VT and VSU institutional policies. The document references the Extension Foundation's "ExtensionBot" as an example of a private generative AI deployment in a controlled environment.

Data privacy: Personnel must not enter confidential or sensitive information, personal IDs, client or stakeholder information, proprietary research, or account credentials.

Attribution: Authors must acknowledge AI use in the methods section of publications. AI tools should not be cited in reference lists. AI-generated unique URLs should not be included.

The document explicitly warns that AI "lacks common sense and can generate misleading or fictional information."

The disclosure template reads: "During the preparation of this work, the author(s) use [AI TOOL] to [PURPOSE]. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication." VCE-1213 applies the template to itself: "During the preparation of this document, the author(s) used Virginia Tech ChatGPT Edu to review the content for clarity, completeness, and accessibility." ChatGPT Edu, the tool named in that self-disclosure, is scheduled to conclude in December 2026 (Part I, Section IV).

VCE-1213 is more operational and practical than Pamplin's AI Position Statement, reflecting VCE's public-facing role: Extension agents interact with producers, communities, and government stakeholders and produce publications with specific disclosure and data privacy requirements.

7.2 People

Michael Gutter — Associate Dean and Director of Virginia Cooperative Extension. Oversees VCE's GenAI guidance.

Brian Bond — Associate Dean of Extension, Outreach and Engagement, CNRE; co-investigator on the AgriProspects AI logger-training award. VCE's administrative team also lists Sarah Baughman (Learning and Organizational Development), Daniel Goerlich (Initiatives), Jeremy Johnson (State 4-H Leader), and Lonnie Johnson Jr. (Operations and Administration); the page carries no dates.

Pipiet Larasatie — VCE specialist and assistant professor, Sustainable Biomaterials; PI of the "Logging Smarter" AI training project (Unit 6).

Emmanuel Torres Quezada — Extension specialist, Eastern Shore Agricultural Research and Extension Center. Uses drones with multispectral cameras for crop stress identification and irrigation management. Documented in the CALS dossier (Unit 1).

7.3 Teaching & Curriculum

VCE's educational mission is directed at producers, community members, and Extension professionals rather than enrolled students. Two AI-specific Extension training efforts are now documented. "Logging Smarter: AI-Enhanced Hardwood Bucking Training for Adult Workforce Development" (\$200,000, AgriProspects, 2026; PI Larasatie) builds AI and computer-vision training into the SHARP Logger Program (Unit 6). "Farming with AI:

Leveraging ChatGPT-5 for Smarter, more Sustainable Agriculture" (August 18, 2026, VSU Randolph Farm, Petersburg) was delivered through the Small Farm Outreach Program at Virginia State University, teaching participants to "craft effective prompts to get meaningful, context-specific answers" for farm planning, grant writing, budgeting, and marketing. No presenter names were listed.

7.4 Tools & Technology

VCE's 108 local offices and 11 ARECs form the statewide backbone of the SmartFarm Innovation Network's deployment infrastructure. Extension specialists and agents partner with researchers to deploy precision agriculture technologies, AI/ML-based analysis, and data-driven decision-making tools to producers across Virginia.

Microsoft Copilot through Edge is the recommended generative AI tool per VCE-1213. Institutional AI tools are documented in Part I, Section IV.

7.5 Research & Scholarship

The Food & Ag ISAC work documented in Unit 1 (CALS/ACWA Lab) explicitly targets Extension-connected agricultural communities. The cybersecurity implications for rural producers who lack IT staff are Extension-relevant. Small farms often lack IT staff entirely, making Extension a potential conduit for cybersecurity awareness.

Torres Quezada's drone remote sensing research at the Eastern Shore AREC (documented in Unit 1) represents VCE-connected applied research. The CALS Global GAP IQ platform (Unit 1), which integrates AI-driven analytics for agricultural productivity decision-making, has downstream relevance for Extension's outreach to producers and policymakers.

7.6 Events & Programming

The VSU/VCE "Farming with AI" workshop (August 18, 2026; see 7.3). A VCE registration listing, "Looking Towards the Future: Artificial Intelligence in the Forest Products Industry" (CNRE-SBIO-FOREST), organized with the Department of Sustainable Biomaterials, describes a program moving from what AI is through "AI use in forest products markets" to "how it is currently being applied in the woods and in mills," with presentations, panel discussions, and Q&A, fee \$30; date, location, and presenters are not shown and the listing is "currently not open for enrollment."

Gaps and Observations

VCE is an unusual case in this inventory. It has a formal AI guidance document — more than most academic colleges have produced — but limited AI research or programming of its own. The guidance document reflects the practical realities of a public-facing organization whose staff interact with non-academic stakeholders and produce publications under disclosure requirements.

The deeper question is whether VCE's statewide network will become a delivery mechanism for AI-enabled agricultural tools developed elsewhere in the university. In 2026 the first two instances appeared: a USDA-backed AI training grant run through a CNRE Extension specialist with a Sanghani collaborator, and a producer workshop on ChatGPT delivered by the 1890 partner. Both are small. Neither connects to the SmartFarm Innovation Network, CAIA's successor office, or the ACWA Lab in the award announcement, the VSU event page, or the CALS ORI pages reviewed.

Cross-References

- **CALS (Unit 1):** VCE is co-administered by CALS. SmartFarm Innovation Network extends to VCE offices. Torres Quezada and Batarseh's work is Extension-connected.
- **Part I, Section II.C:** VCE-1213 documented as supplemental guidance, the second unit-level AI policy document.
- **Part I, Section IV:** Microsoft Copilot through Edge recommended per both VCE-1213 and institutional tool guidance.

Sources

VCE-1213: Virginia Cooperative Extension Guidance for Use of Generative AI — full text of VCE's generative AI guidance document, including approved uses, data privacy restrictions, attribution requirements, and model disclosure statement.

<https://www.pubs.ext.vt.edu/VCE/VCE-1213/VCE-1213.html>

VT ai.vt.edu resources page — lists VCE-1213 among general resources (June 10, 2026 version).

<https://ai.vt.edu/resources.html>

Virginia Cooperative Extension home page — overview of VCE's mission, statewide reach, and partnership structure.

<https://ext.vt.edu/>

VCE Strategic Plan 2025-2035 (VCE-1227), November 2025: AI line under organizational excellence.

<https://www.pubs.ext.vt.edu/VCE/vce-1227/vce-1227.html>

VCE administrative team page.

<https://ext.vt.edu/about/admin-team.html>

VSU Extension: Farming with AI, ChatGPT-5 workshop (August 18, 2026).

<https://www.ext.vsu.edu/events/0818-leveragingai>

VCE registration listing: AI in the Forest Products Industry.

<https://register.ext.vt.edu/search/publicCourseSearchDetails.do?method=load&courseId=4257184&selectedProgramAreaId=25577&selectedProgramStreamId=>

Units 8/15. Virginia Tech Carilion School of Medicine (VTC SOM) + Fralin Biomedical Research Institute (FBRI)

Key Signals: FBRI concentrates VT's deepest AI/ML research in biomedicine — computational neuroscience (Montague, 42,000+ citations), computational psychiatry (Chiu), clinical immunology informatics (Rider/CHILI Lab), and an emerging Cancer Research Center in D.C. Three consecutive AI-themed Maury Strauss public lectures (2023, 2025, 2026) position the institute as VT's primary public engagement vehicle for AI in health. A new \$26.5M Virginia Tech Patient Research Center will explicitly use AI, remote sensing, and advanced data analytics for clinical research.

VTC SOM is a four-year allopathic medical school formed through a public-private partnership between Virginia Tech and Carilion Clinic, located in Roanoke. The Class of 2030, which received white coats on August 14, 2026, "is the largest in the school's history, featuring 64 students selected from a pool of more than 6,500 applicants" (the Class of 2029 was 56). FBRI is the university's dedicated biomedical research arm, operating from Roanoke and a D.C.-area campus at the former Walter Reed site (Children's National Research & Innovation Campus). The two units share personnel, facilities, and a research pipeline. The FBRI about page gives "More Than 40 Faculty-Led Research Teams," "Nearly 700 personnel," and more than \$241 million in current active extramural grants and contracts (statistics dated July 2025).

8/15.1 Governance & Policy

No standalone VTC SOM generative AI policy, AI-specific honor code language, or formal AI governance framework was identified in public sources. VTC SOM and FBRI defer to university-wide governance (ai.vt.edu), the VT AI Principles, and the Responsible and Ethical AI Framework (Fall 2025). The 2026-2029 VTC SOM Strategic Plan (page last modified July 21, 2026) is the first VTC SOM planning document with a quantified AI commitment identified in this inventory. Under Goal Two of University Priority One, the action steps include: "Develop and implement at least three artificial intelligence learning experiences and assessments per curriculum phase, while delivering at least two Identities-aligned faculty professional development opportunities annually." A milestone states: "Conduct a precision education (e.g., AI learning and Identities-aligned

learning outcomes) gap analysis in year one; use results to close gap by year three of implementation." The same goal carries the enrollment growth plan (LCME application to reach 96 students per class by new-building occupancy) and "precision education pathways (e.g., micro-credentials, advanced degrees)." It is a plan, not a policy or a course.

Medical Education Retreat (2025)

The 2025 VTCSOM Medical Education Retreat (theme: "Align, Integrate, Innovate") included a dedicated session on "How AI Effects Medical Education." Discussion topics covered AI's role in clinical reasoning, faculty workload, learner assessment, and "embracing AI as both a tool and a teammate." The retreat noted the need for "clear developmental guidelines" for AI use. Over 80 faculty, leaders, and educational partners attended. No published guidelines resulting from the retreat were identified.

Admissions AI Signals

For the 2024-2025 admissions cycle, VTCSOM included a secondary essay prompt directly addressing AI: "Describe how AI could affect the integrity of medical professionals" (400-word limit). The application also included an AI attestation asking applicants whether they used AI tools in preparing their application. For the 2025-2026 cycle, VTCSOM replaced the AI essay prompt with entirely different questions; the AI attestation status for the current cycle is not confirmed. The removal of the AI-specific essay after one year may signal that VTCSOM gathered the information it needed or shifted priorities. Applicant-forum transcriptions of the 2026-2027 secondaries report a required prompt that reintroduces AI as a premise rather than a subject: "Beyond the rise of AI, what do you consider the greatest challenge facing your generation, and how do you plan to address it?" (400 words). This is forum-sourced and was not verified against the application portal.

8/15.2 People

VTCSOM

Lee Learman, MD, PhD — Dean. At the April 21, 2026 dedication of the Jeffrey Modell Center for Informatics and Data Science: "This center represents an important step forward for our school and is a milestone marking our progress applying AI in health care." Elected to the Virginia Academy of Science, Engineering, and Medicine in August 2026; the citation credits him with establishing the Department of Health Systems and Implementation Science and expanding research "through the Smart

Healthcare Hub and the Jeffrey Modell Center for Informatics and Data Science," growing the entering class from 42 to 64, and securing a record \$20 million gift from Jim '74 and Augustine '71 Smith.

Nicholas Rider, DO — Professor, Health Systems and Implementation Science; Associate Chief Medical Information Officer (Research), Carilion Clinic. Joined VT January 2024 from Baylor College of Medicine / Texas Children's Hospital. Board-certified immunologist and clinical informaticist. Leads the Computational Human Immunology Lab and Innovation Hub (CHILI Lab), applying AI, ML, and epidemiological/statistical methods to clinical immunology for patients with primary immune deficiency. 3,405 citations (Google Scholar). Co-chaired the 2nd Artificial Intelligence for Primary Immune Disease (AI4PI) international conference (NYC, March 2025; 130+ attendees from 16 countries, 40+ institutions). The AI4PI conference proceedings were published in the *Journal of Allergy and Clinical Immunology* (February 2026). Faculty mentor to the AI in Healthcare student club. Graduate certificate in biomedical informatics (University of Texas). Named Center Leader of the Jeffrey Modell Center for Informatics and Data Science at its April 21, 2026 dedication: "Our goal is to use data in ways that directly improve how we diagnose and care for patients, not only here locally but around the world." Named as a participant in the June 2026 pediatric AI hub announcement.

Sarah Henrickson Parker, PhD — Chair, Department of Health Systems and Implementation Science; Associate Professor with tenure (tenured at her current rank by the Board of Visitors, June 2026). Research covers human factors in healthcare delivery, computational modeling, and human-centered design for AI tools in clinical settings. Published systematic review on "Inclusion of Clinicians in the Development and Evaluation of Clinical Artificial Intelligence Tools" (*Frontiers in Psychology*, 2022), co-authored with VT CS and ECE faculty. Featured on VT "Curious Conversations" podcast discussing AI and ML in healthcare. Her postdoctoral researcher Nikitha studies design and application of generative AI for professional skills training and pedagogical implications of LLMs in computing education.

FBRI

Michael Friedlander — Executive Director of FBRI; VP for Health Sciences and Technology; Senior Dean for Research, VTCSOM. Public statements consistently connect FBRI's mission to AI/ML. On the Children's National partnership: "Our complementary interests in data science,

machine learning, and pediatric health care solutions create ideal conditions for progress and innovation." On the February 2026 Vivian Lee lecture: FBRI is addressing how to use AI "responsibly" at a moment when "health care leaders are asking not just whether artificial intelligence works, but how to use it responsibly." In a February 2026 Cardinal News op-ed on the Virginia Tech Patient Research Center, Friedlander stated the center "will use innovative technology including remote sensing, artificial intelligence, and advanced data analytics to engage a broader range of patients in research."

Sally Allain — Chief of Health Sciences Growth and Innovation Officer, FBRI and Office of Health Sciences and Technology (appointed 2024). Formerly head of Johnson & Johnson Innovation JLABS @ Washington, D.C. Oversees technology commercialization, startup development, and industry partnerships across VT health sciences. VT alumna (B.S. Biology, M.S. Microbiology/Immunology).

Read Montague, PhD — Virginia Tech Carilion Vernon Mountcastle Research Professor; Director of the Center for Human Neuroscience Research, Human Neuroimaging Lab, Human Magnetometry Lab, and Computational Psychiatry Unit at FBRI. Also Professor of Physics (CoS) and Professor of Psychiatry & Behavioral Medicine (VTCSOM). Among the first to propose and test that dopamine neurons compute reward prediction errors paralleling reinforcement learning algorithms. 140+ scientific papers, 42,000+ citations. Invited to present at a Nobel Assembly event (Stockholm, September 2022). In October 2025, presented insights in real-time human brain chemistry at Penn's Flexner Lecture. In February 2026, published in *Science Advances* on honey bee brain neurotransmitter dynamics predicting learning, extending computational neuroscience methods to a new model organism.

Pearl Chiu, PhD — Professor, FBRI and VT Department of Psychology. Trains ML algorithms on multimodal data (fMRI, clinical surveys, behavioral data, speech, psychological assessments, biological samples) to diagnose mental disorders. Landmark 2021 *JAMA Psychiatry* study mapped how reinforcement learning is disrupted in depression. 2024 study used real-time fMRI neurofeedback with individual-specific ML classifiers to regulate smoking craving (*Philosophical Transactions of the Royal Society B*). 2025 study addressed reinforcement learning processes as forecasters of depression remission (*Journal of Affective Disorders*). \$2.8M+ in annual NIH funding.

Stephen LaConte, PhD — Professor, FBRI; Professor, Biomedical Engineering and Mechanics (CoE); Professor, Emergency Medicine and Radiology (VTCSOM). Pioneered temporally adaptive brain state (TABS) fMRI using support vector machine classifiers to decode brain states in real time. Applications to alcohol use disorder, traumatic brain injury, smoking craving regulation, and cerebral palsy rehabilitation.

Warren Bickel, PhD (1956-2024) — Virginia Tech Carilion Behavioral Health Research Professor; founding Director of the Addiction Recovery Research Center and Director of the Center for Health Behaviors Research at FBRI. 500+ publications, 50,000+ citations, top 1% most highly cited researchers globally. Applied computational modeling and ML to study decision-making in addiction. Co-founded BEAM Diagnostics (2017). Died September 28, 2024.

Christopher Hourigan, DM, DPhil, FRCP — Director, FBRI Cancer Research Center (D.C.). Joined from NIH (senior investigator) in 2024. Stated that advances in AI "resonate with my impatient desire that we do better faster." Interest in potential collaborations with VT's Institute for Advanced Computing.

Shenglin Mei, PhD — Assistant Professor, FBRI Cancer Research Center (D.C.) and Dept of Biomedical Sciences and Pathobiology (Vet Med). Combines single-cell technologies, genomic datasets, and machine learning to study tumor microenvironment remodeling and cancer metastasis. PhD in computational biology (University of Shanghai); postdoc at Harvard T.H. Chan School of Public Health.

Jia-Ray Yu, PhD — Assistant Professor, FBRI Cancer Research Center (D.C.). AI models predicting single-cell responses to genetic perturbations in pediatric developmental disorders. Collaboration with Wei Li at Children's National Hospital.

Robert Gourdie, PhD — Professor, FBRI Center for Vascular and Heart Research; Professor, Biomedical Engineering (CoE); Professor, Emergency Medicine (VTCSOM). Published a commentary in *Nature Biotechnology* (February 2026) on balancing research integrity and biomedical innovation commercialization. While not AI-specific, the piece addresses the technology transfer ecosystem directly relevant to AI-derived biomedical tools.

Michael Halassa — Professor, FBRI; physician-scientist whose "algorithmic circuit psychiatry" approach "treats psychotic symptoms as failures of specific neural algorithms" (VT News, April 2026). FBRI's computational psychiatry group is described as Montague, Chiu, Brooks

Casas, LaConte, and Alex DiFeliceantonio; an August 2026 EurekAlert preview of the institute's Precision Therapeutics symposium (September 23-24, 2026, FBRI) lists "biomarkers, cognition, and NeuroAI" as the topics LaConte and Chiu will explore.

Sarah Clinton — Health Sciences Associate Vice President for Planning and Strategy; named in the June 2026 pediatric AI hub announcement with Sally Allain, Rider, and Lance Collins.

8/15.3 Teaching & Curriculum

VTCSOM does not have a formally documented AI course or curricular thread within the MD program. The 2025-2026 course catalog does not list an AI-specific course. AI engagement at the teaching level operates through the student club, the Inquiry to Impact faculty development series, and the medical education retreat. The 2026-2029 Strategic Plan commits the school to "at least three artificial intelligence learning experiences and assessments per curriculum phase" and a year-one AI learning gap analysis (see 8/15.1); no course or assessment produced under that commitment had been published as of the evidence snapshot date. The Inquiry to Impact series page lists no 2026 sessions; its last listed AI sessions are January 2025; a separate event page lists a February 19, 2025 student-led "AI in Action" workshop run by the AI in Healthcare Club.

Inquiry to Impact Series

Launched in January 2025 with a session featuring Richard Schwartzstein (Harvard Medical School), described as "a leading expert in AI and medical education." Topics included current AI applications, challenges, and future directions. A follow-up in-person workshop showcased real-world AI applications in medical education.

AI in Healthcare Student Club

Mission: "To educate and engage students in current and future applications of Artificial Intelligence in healthcare, fostering a culture of innovation and interdisciplinary collaboration." Hosts expert-led discussions, guest lectures, and interactive activities. Student leaders (as of December 2024): Saif Pasha, Calvin Harris, Cole Pieroni. Faculty mentor: Nicholas Rider.

Graduate Research

Rider's graduate students Liangying Liu and Jacob Blaukovitch (Translational Biology, Medicine, and Health PhD program) presented at the

AI4PI conference. Parker's postdoc Nikitha researches generative AI applications in computing education pedagogy. The TBMH Ph.D. program is expanding to the D.C. area, with two courses offered in greater Washington in spring 2026 and the first full-time D.C.-based cohort expected Fall 2026, complementing the Children's National Hospital partnership.

8/15.4 Tools & Technology

VTCSOM and FBRI use university-wide approved AI tools documented in Part I, Section IV. No unit-specific AI tool deployments or procurement decisions were identified. BEAM Diagnostics, an FBRI spinoff (see Section 5 below), represents a technology deployment in clinical settings but is a separate commercial entity.

FBRI Research Infrastructure with AI/ML Components

Human Neuroimaging Laboratory: fMRI with real-time neurofeedback capabilities supporting ML-based brain-state classification. Human Magnetometry Laboratory: optically pumped magnetometry headset for brain signal capture supporting AI analysis of social interaction. 3-Tesla Siemens Prisma MRI with Insightec Exablate Focused Ultrasound. Pre-clinical imaging core (Bruker MRI with PET insert, Micro PET/CT). Labs at Children's National Research & Innovation Campus in Washington, D.C. (former Walter Reed site).

8/15.5 Research & Scholarship

Computational Neuroscience and Psychiatry

Montague's group pioneered sub-second measurements of dopamine and serotonin in conscious human subjects and applies ML to decode brain states from fMRI and magnetoencephalography data. His theoretical work proposing that dopaminergic systems encode reward prediction error signals analogous to temporal difference learning in AI/optimal control is foundational to modern neuroscience. Active funding: \$2.75M grant for computational neurochemistry in conscious humans; \$3M+ in active NIH grants; two Red Gates Foundation projects. In February 2026, his team published in *Science Advances* on neurotransmitter dynamics in honey bees that predict learning behavior.

Chiu's computational psychiatry group uses ML classifiers on multimodal data for psychiatric diagnosis. LaConte's core work applies SVM classification to multi-voxel fMRI patterns, with collaborations on addiction and craving research and pediatric cerebral palsy rehabilitation.

BEAM Diagnostics — FBRI Spinoff

Founded 2017 by Bickel and Sarah Snider (CEO). Product: Beacon-OD, a digital screening tool that determines patient risk of opioid use disorder using computational/behavioral economics algorithms without stigmatizing questions. \$1.84M NIH Phase II SBIR grant (2023) to commercialize in outpatient clinics. Partnering with UVA Health and Carilion Clinic. Won Rising Star in Biotechnology at TechNite 2024. Reported to be one clinical trial from FDA clearance as of late 2024; in use at two Virginia hospitals including Carilion Clinic.

CHILI Lab — AI for Immunology

Rider's lab builds systems that embed within electronic health records to analyze data and produce risk scores for genetic immune disorders, enabling earlier diagnosis. Techniques include NLP for detecting immunological dysfunction from EHR text, probabilistic modeling of infection susceptibility, and deep learning approaches for extracting clinical concepts. The AI4PI conference (March 2025) brought 130+ attendees from 16 countries; proceedings published in JACI (February 2026).

Cancer Research Center (D.C.)

Mei combines ML with single-cell technologies for tumor microenvironment analysis. Yu develops AI models predicting single-cell responses to genetic perturbations in pediatric disorders. A March 2026 paper in *Briefings in Bioinformatics* by FBRI Cancer Research Center authors and VT CS faculty (Liqing Zhang) reviewed LLM-based agents for biological intelligence across genomics, proteomics, spatial biology, and biomedicine.

Children's National Hospital Partnership — AI in Pediatric Medicine

Joint initiative with the Sanghani Center and Children's National Hospital. The 1st conference (2023) covered smart surgery, rare diseases, and AI in emergency medicine. The 2nd conference (September 2024) expanded scope with speakers from AWS, NVIDIA, Oracle Cloud Infrastructure, and Pfizer. Co-directed by Naren Ramakrishnan (Sanghani Center) and Marius George Linguraru (Children's National). Funded seed projects include forecasting ER surges, predicting single-cell responses to genetic perturbations, and AI for rare diseases. At the 3rd annual AI for Pediatric Health Symposium (May 28, 2026, Academic Building One, Alexandria), the partners announced the Children's National & Virginia Tech Pediatric Health AI Innovation Hub. Leadership named: Catherine Bollard (Chief Research Officer) and Linguraru for Children's National; Ramakrishnan

(Sanghani) and Friedlander (FBRI) for Virginia Tech. Seed areas: machine learning for pediatric seizure disorders, brain chemical activity monitoring, rare disease identification, pediatric mental health tools, and emergency department access. Friedlander: "AI has a role in the delivery of pediatric healthcare and across the entire ecosystem, from basic discovery science to translation to clinical implementation." No funding amount or governance structure was stated.

Jeffrey Modell Center for Informatics and Data Science (April 2026)

Dedicated April 21, 2026 at VTCSOM as "the first in the foundation's international network focused specifically on informatics and data science" (dean's newsletter, May 2026). Center Leader: Rider. Attendees included Jeffrey Modell Foundation co-founder Fred Modell and CEO Vanessa Tanenbaum; guest speaker Lisa Bastarache (Center for Precision Medicine, Vanderbilt). The foundation "has awarded more than \$3.7 million for research programs into PI"; whether any of it went to VT is not stated. The center extends the CHILI Lab's AI-for-immunology line into a named, foundation-backed structure.

Other 2026 Research Items

A \$460,260 HHS award to Virginia Tech for AI and machine learning in medical treatment for seniors in rural communities was announced by Rep. Morgan Griffith (July 27, 2026); the release names no unit or PI; Cardinal News (August 5, 2026), citing a university spokeswoman, attributes it to Huaiyang Zhong (ISE) and describes it as chronic pain management, which was not confirmed from a VT source (see Unit 4). The Biomedical Research Diamond alliance (VT, UVA, VCU, ODU) held its inaugural symposium in Richmond in summer 2026 with FBRI participation (LaMantia, Friedlander, Lessard, Warren); "artificial intelligence" is listed among research areas without detail.

Virginia Tech Patient Research Center

The Virginia General Assembly and Governor approved \$26.5M to establish the Virginia Tech Patient Research Center at VTC, housed within FBRI. The center will conduct investigator-initiated clinical research incorporating AI, remote sensing, and advanced data analytics to engage a broader patient population. A faculty leadership search (Nature Careers posting, January 22, 2026; closed March 23, 2026) describes the center's scope in "ambulatory, in-patient and/or remote tele-health settings" without AI language; no director announcement was found on the VTCSOM or FBRI news pages as of the evidence snapshot date, and the earlier expectation of

two positions starting by spring 2026 could not be confirmed. The center is part of the broader Virginia Research Diamond initiative alongside UVA, VCU, and ODU.

Philanthropy Supporting AI-Adjacent Research

The \$50 million Red Gates Foundation gift to FBRI (September 2023) partially supports computational approaches to brain research, addiction recovery (including Bickel's AI-supported smoking cessation app for veterans), and cancer research.

Federal Funding Risks

The Trump administration's NIH attempted cuts to facilities and administration costs could have a \$13 million impact on VT's research budget, much of which flows to FBRI. Virginia's congressional delegation has pushed back on the proposed reductions.

8/15.6 Events & Public Engagement

Maury Strauss Distinguished Public Lecture Series

Three consecutive AI-themed lectures position this series as FBRI's primary public engagement vehicle for AI in biomedicine:

Read Montague (September 28, 2023): "Machine Learning and Human Thought — A Modern Frontier." Explored 30 years of ML in neuroscience research.

Regina Barzilay, MIT (January 23, 2025): "Rethinking Human Health with AI: Solving Old Mysteries with Modern Tools." Barzilay is Distinguished Professor for AI and Health at MIT, AI faculty lead at the Jameel Clinic, MacArthur Fellow, and member of NAE, AAAS, and NAM.

Vivian Lee (February 5, 2026): National Academy of Medicine member and physician-turned-tech executive. Addressed responsible leveraging of AI in health settings. Free, open to the public, and livestreamed.

The April 2026 Strauss lecture featured Lewis Lanier (UCSF, NAS member) on immunology. The 2026-27 slate continues without an AI theme: Christopher Hourigan (FBRI Cancer Research Center, September 17, 2026, "Why Measure?"); Zhen Yan (Center for Exercise Medicine Research, October 15, 2026); Joseph Wu (Stanford Cardiovascular Institute, November 5, 2026).

Mini Medical School (November 2023)

Two-evening public program: "Evolving Tech and AI in Health Care — What Does it Mean for You?" Presenters included Parker (VTCSOM), Sylvester Johnson (VT Center for Humanities), Trip Humphrey (Carilion data science), Stephen Morgan (Carilion CMIO), and Mark Swope (medical ethics).

AI4PI Conference (March 2025)

Co-chaired by Rider. 130+ attendees, 16 countries, 40+ institutions. Focused on AI for primary immune disease. Proceedings published in JACI (February 2026).

Delta Dental Lecture on AI in Orofacial Pain (November 2023)

Glenn Thomas Clark (USC) demonstrated an algorithm-assisted clinical decision support system for orofacial pain/oral medicine diagnosis. CME-accredited.

Upcoming: Data Science in Addiction and Trauma (May 1, 2026)

Denise Hien (Rutgers) scheduled to present "Advancing the Treatment of Traumatic Stress and Addictions: How Data Science Can Move the Field Forward" at FBRI. The FBRI events page has rolled forward to 2026-27 and no recording or recap of the May 1 lecture was found. Other 2026 events: the Jeffrey Modell Center dedication (April 21), the AI for Pediatric Health Symposium (May 28, Alexandria), and the Precision Therapeutics symposium (September 23-24, 2026, FBRI; speakers include Stephen Brannan, former CMO of Karuna Therapeutics, and Andrew Pines, Harvard/Mass General Brigham; sponsors Bristol-Myers Squibb, Ovid Therapeutics, and FBRI).

Gaps and Observations

VTCSOM/FBRI is a case where research depth far outpaces governance infrastructure. FBRI houses some of VT's most foundational AI/ML research, and 2026 added a foundation-named informatics center, a pediatric AI hub with a major children's hospital, and "NeuroAI" as a named topic in the computational psychiatry group's symposium program. On the governance side the movement is smaller but real: the 2026-2029 strategic plan puts a number on AI in the curriculum (three learning experiences and assessments per phase) and orders a year-one gap analysis, and the dean has now spoken on AI. No AI governance document or standalone statement on AI in medical education was identified from either unit.

The 2025 medical education retreat discussed AI extensively but produced no published guidelines. The AI essay prompt was used for one admissions

cycle, dropped, and then (per applicant forums) reappeared for 2026-27 as a premise inside a broader question. The AI in Healthcare student club operates with faculty mentorship but outside formal curriculum. The Strauss lecture series, which carried the institute's public AI engagement for three years, lists no AI lecture among the sessions posted through November 5, 2026.

The Virginia Tech Patient Research Center, with its explicit commitment to AI and remote sensing, represents the most significant new infrastructure investment with an AI mandate in this combined unit. Whether it produces governance structures alongside research capacity remains to be seen.

Cross-References

- **College of Engineering / Sanghani Center (Unit 4):** Children's National partnership co-directed by Ramakrishnan. ADSDF-funded surgical tray visual recognition AI project involves VTCSOM and BME faculty.
- **College of Science (Unit 2):** Montague holds Physics professorship. Chiu holds Psychology appointment.
- **ICAT (Unit 22):** Parker presented at Mini Medical School co-sponsored by ICAT Center for Future Work Places and Practices.
- **Innovation Campus (Unit 21):** FBRI Cancer Research Center (D.C.) operates at the Children's National Research & Innovation Campus. Collins attended AI in Pediatric Medicine conference.
- **Part I, Section IV:** University-wide approved AI tools.
- **Part I, Section VI:** SIRC research AI guidance relevant to FBRI's human subjects research.

Sources

VTCSOM home page — dean, enrollment, and institutional overview.

<https://medicine.vtc.vt.edu/>

VTCSOM Medical Education Retreat page — 2025 retreat theme, AI session topics, and attendance.

<https://medicine.vtc.vt.edu/educational-affairs/medical-education-retreat.html>

VTCSOM Inquiry to Impact faculty development series — Schwartzstein session and AI in medical education programming.

<https://medicine.vtc.vt.edu/events/inquiry-to-impact-series.html>

AI in Healthcare student club page — mission statement, student leaders, and Rider mentorship.

<https://medicine.vtc.vt.edu/student-life/student-clubs-and-organizations/club-ai-healthcare.html>

Rider Lab (CHILI Lab) page — research scope, EHR integration, NLP methods, and clinical immunology AI applications.

<https://medicine.vtc.vt.edu/Research/faculty-labs/RiderLab.html>

VT News on Rider appointment (March 2024) — background, Baylor career, and transition to VT.

<https://news.vt.edu/articles/2024/03/vtcsom-nickrider.html>

VT News on AI4PI conference (April 2025) — 130+ attendees, 16 countries, Rider co-chair role, and conference scope.

<https://news.vt.edu/articles/2025/04/vtcsom-faculty-member-co-chairs-international-conference-on-ai.html>

VT Experts profile for Rider — citation count and expertise areas.

<https://experts.vt.edu/31027-nicholas-l-rider>

Parker FBRI faculty profile — research areas, human factors, and computational modeling.

<https://fbri.vtc.vt.edu/people-directory/primary-faculty/parker.html>

Parker Lab page — team members including postdoc Nikitha and generative AI research.

<https://labs.vtc.vt.edu/parker/aboutourlab/>

VT Research podcast with Parker — AI and ML in healthcare workspaces discussion.

<https://www.research.vt.edu/news/podcast/2023/ai-and-healthcare-workspaces-with-sarah-henrickson-parker.html>

Parker et al., systematic review on clinician inclusion in clinical AI tool development — *Frontiers in Psychology*, 2022.

<https://pmc.ncbi.nlm.nih.gov/articles/PMC9022040/>

FBRI about page — Friedlander role, institutional mission, personnel and research team counts, and AI/data science positioning.

<https://fbri.vtc.vt.edu/about.html>

FBRI campus and facilities page — imaging infrastructure, D.C. campus, and lab capabilities.

<https://fbri.vtc.vt.edu/about/campus-and-facilities.html>

FBRI events page — upcoming lectures including Data Science in Addiction and Trauma (May 2026) and Lanier Strauss lecture.

<https://fbri.vtc.vt.edu/events.html>

Montague FBRI faculty profile — research scope, appointments, and lab directorships.

<https://fbri.vtc.vt.edu/people-directory/primary-faculty/montague.html>

Chiu FBRI faculty profile — computational psychiatry methods and ML diagnostic approaches.

<https://fbri.vtc.vt.edu/people-directory/primary-faculty/chiu.html>

LaConte FBRI faculty profile — TABS fMRI, SVM classifiers, and cross-college appointments.

<https://fbri.vtc.vt.edu/people-directory/primary-faculty/laconte.html>

VT News on Montague Nobel Assembly event (September 2022) — Stockholm invitation and reinforcement learning talk.

<https://news.vt.edu/articles/2022/09/NobelSymposium-fralinbiomed-0902.html>

VT News on FBRI AI research (September 2023) — overview of computational neuroscience and ML applications at FBRI.

<https://news.vt.edu/articles/2023/09/fbri-research-ai.html>

VT News on Montague honey bee study (February 2026) — *Science Advances* publication extending computational neuroscience to insect models.

<https://news.vt.edu/articles/2026/02/research-fralinbiomed-montaguebees.html>

VT News on Chiu JAMA Psychiatry study (July 2021) — ML mapping of reinforcement learning disruption in depression.

<https://news.vt.edu/articles/2021/07/jama-fralinbiomed-0727.html>

Radiology Business on Chiu's brain imaging AI for mental illness diagnosis — clinical applications of ML classifiers.

<https://radiologybusiness.com/topics/artificial-intelligence/virginia-tech-brain-imaging-ai-diagnose-mental-illness>

VT News on Bickel memorial (October 2024) — 500+ publications, 50,000+ citations, BEAM Diagnostics founding, and computational addiction research.

https://news.vt.edu/articles/2024/10/research_fralinbiomed_bickel_1002.html

VT News on BEAM Diagnostics (September 2023) — \$1.84M SBIR grant, Beacon-ODD product, and opioid screening approach.

<https://news.vt.edu/articles/2023/09/fbri-spinoff-0915.html>

VT News on BEAM at TechNite 2024 — Rising Star in Biotechnology award and commercialization status.

https://news.vt.edu/articles/2024/05/research_fralinbiomed_technite_0510.html

VT News on Hourigan appointment and Cancer Research Center (September 2025) — AI interest and IAC collaboration potential.

<https://news.vt.edu/articles/2025/09/research-fralinbiomedical-awardinno.html>

VT News on Mei profile (December 2024) — ML and single-cell technologies for cancer research.

https://news.vt.edu/articles/2024/12/research_fralinbiomed_meiprofile_1218.html

VT News on Yu appointment (August 2024) — AI models for pediatric genetic perturbations.

<https://news.vt.edu/articles/2024/08/research-fralinbiomed-fbri-0816.html>

LLM-based agents for biological intelligence — *Briefings in Bioinformatics*, March 2026. FBRI Cancer Research Center and VT CS co-authored.

<https://academic.oup.com/bib/article/27/2/bbag110/8540361>

Gourdie commentary in *Nature Biotechnology* (February 2026) — research integrity and biomedical innovation commercialization.

<https://www.nature.com/articles/s41587-025-02996-z>

VT News on Gourdie commentary (February 2026) — summary and context.

<https://news.vt.edu/articles/2026/02/research-fralinbiomed-commentary.html>

Allain appointment at FBRI — VaBio announcement, J&J Innovation background, and health sciences commercialization role.

<https://www.vabio.org/senior-health-science-industry-innovation-leader-joins-virginia-techs-fralin-biomedical-research-institute-at-vtc/>

Strauss lecture: Montague (September 2023) — "Machine Learning and Human Thought."

<https://fbri.vtc.vt.edu/events/maury-strauss-distinguished-public-lectures/2023-09-28-montague.html>

VT News on Barzilay Strauss lecture preview (August 2024) — MIT AI and Health Distinguished Professor.

https://news.vt.edu/articles/2024/08/research_fralinbiomed_dplpreview_0826.html

VT News on Vivian Lee Strauss lecture (January 2026) — responsible AI in health, Friedlander quote.

https://news.vt.edu/articles/2026/01/research_fralinbiomed_leedpl.html

Mini Medical School on AI in Health Care — ICAT co-sponsorship, presenter list, and public format.

<https://cfwpp.icat.vt.edu/news/mini-medical-school-explores-the-evolving-role-of-ai-in-health-c.html>

Delta Dental lecture on AI in orofacial pain (November 2023) — Clark's algorithm-assisted diagnostic system.

<https://news.vt.edu/articles/2023/11/vtcsom-deltadentalglennclark.html>

Children's National / VT AI in Pediatric Medicine 1st conference (July 2023) — partnership launch and scope.

<https://news.vt.edu/articles/2023/07/children-s-national-virginia-tech-unite-to-advance-ai-for-pedia.html>

Children's National / VT AI in Pediatric Medicine 2nd conference (September 2024) — expanded scope, industry speakers, Hourigan and Collins quotes.

<https://news.vt.edu/articles/2024/09/research-fbri-aipediaticmedicine-0918.html>

VT News on TBMH D.C. expansion (November 2025) — spring 2026 courses and Fall 2026 cohort.

https://news.vt.edu/articles/2025/11/research_fralinbiomed_tbmh2026.html

Fralin Health Sciences Fellows Program (February 2026) — 2025 fellows and 2026 cohort application.

https://news.vt.edu/articles/2026/02/research_fralinbiomed_fralinfellows.html

Friedlander Cardinal News op-ed on Patient Research Center (February 2026) — \$26.5M state investment, AI and remote sensing, Virginia Research Diamond initiative.

<https://cardinalnews.org/2026/02/20/friedlander-a-smart-investment-for-southwest-virginia/>

Cardinal News on FBRI 15-year profile (September 2025) — 45 research teams and 685 personnel as reported there, NIH indirect cost risks, and \$13M potential impact on VT research budget.

<https://cardinalnews.org/2025/09/03/roanokes-biomedical-institute-now-an-economic-engine-for-the-region-started-15-years-ago-with-a-single-employee/>

Student Doctor Network forum on VTCSOM 2024-2025 secondaries — AI essay prompt and attestation discussion.

<https://forums.studentdoctor.net/threads/2024-2025-virginia-tech-carilion.1493854/>

ProspectiveDoctor VTCSOM secondary prompts — AI essay prompt text and 400-word limit.

<https://www.prospectivedoctor.com/virginia-tech-carilion-school-of-medicine-secondary/>

VTCSOM Strategic Plan 2026-2029 (AI learning experiences per curriculum phase; year-one gap analysis).

<https://medicine.vtc.vt.edu/about/strategic-plan.html>

VTCSOM Progress Notes, May 2026 (center dedication; institutional transitions).

<https://medicine.vtc.vt.edu/news/progress-notes/may-2026.html>

Children's National Innovation District: pediatric AI collaboration.

<https://innovationdistrict.childrensnational.org/childrens-national-and-virginia-tech-deepen-pediatric-ai-collaboration-to-accelerate-innovation-for-children/>

VT News: FBRI faculty tenure and promotions (June 2026; Parker).

https://news.vt.edu/articles/2026/06/research_fralinbiomed_facultytenure.html

VT News: Class of 2030 white coat ceremony (August 2026).

<https://news.vt.edu/articles/2026/08/vtcsom-class-of-2030-dons-white-coats--begins-journey-into-medic.html>

VT News: Halassa and algorithmic circuit psychiatry (April 2026).

<https://news.vt.edu/articles/2026/04/research-fralinbiomed-mental.html>

EurekAlert: precision psychiatry symposium preview (NeuroAI), August 2026.

<https://www.eurekalert.org/news-releases/1142123>

FBRI Maury Strauss lecture series, 2026-27.

<https://fbri.vtc.vt.edu/events/maury-strauss-distinguished-public-lectures.html>

Nature Careers: Patient Research Center faculty leadership posting (January 2026).

<https://www.nature.com/naturecareers/job/12852884/faculty-leadership-patient-research-center>

Rep. Griffith: \$460,260 HHS award for AI in rural senior care (July 2026).

<https://morgangriffith.house.gov/news/documentsingle.aspx?documentid=405776>

VT News: Biomedical Research Diamond alliance (June 2026).

<https://news.vt.edu/articles/2026/06/research-fralinbiomed-researchdiamond.html>

Student Doctor Network thread: 2026-2027 VTCSOM secondary prompts (forum transcription).

<https://forums.studentdoctor.net/threads/2026-2027-virginia-tech-carilion-school-of-medicine.1517875/>

VTCSOM Inquiry to Impact: AI in Action student-led session (February 2025).

<https://medicine.vtc.vt.edu/events/inquiry-to-impact--ai-in-action--an-interactive-student-led-sess.html>

Unit 9. College of Architecture, Arts, and Design (AAD)

Key Signals: AAD's AI activity is entirely faculty-driven and distinctively creative — emotion-responsive installations, AI-augmented architectural competitions, accessibility navigation aids for blind users, and generative AI for psychological interventions. The AI-Accessibility project (ICAT SEAD-funded) is the college's flagship cross-disciplinary AI initiative. A Fall 2024 hiring wave brought multiple researchers with explicit AI profiles, and a 2026 graphic design search targets AI and digital technology expertise.

AAD comprises four schools: Architecture, Visual Arts (SOVA), Performing Arts, and Design. Approximately 2,200 students and 260 faculty and staff. Under Dean Lu Liu's leadership (since July 2023), funded research and fundraising more than doubled. No AAD-specific AI governance has been publicly documented. The AAD faculty research page explicitly highlights AI: "Their research harnesses AI, material science, acoustics, and immersive tech to create responsive environments — from sound-sensitive walls to talkative benches — that promote well-being, enhance access, and push the boundaries of intelligent design."

9.1 Governance & Policy

No AAD-specific AI policy, AI task force, or AI position statement has been publicly documented. AAD follows the university-wide AI framework. Faculty participate in university-wide AI initiatives (Tucker in the Teaching with AI cohort; Elgewely as an ICAT Senior Fellow; Gipe-Lazarou and Borunda in ICAT-funded projects), but no college-level governance structure specific to AI has been publicly documented. Through the AI Futures Working Group (appointed spring 2026; roster published August 20, 2026) the college has a seat in institutional AI governance: Jeffrey Loeffert, director of the School of Performing Arts, is a member of the university AI Futures Working Group (Part I, Section I.B), and the vision announcement is tagged to the college. Dean Liu is not on the group. The School of Performing Arts also contributed courses to the university-wide AI minor (CINE 2014 AI in Filmmaking; MUS 2014 AI in Music), and Loeffert supplied the minor announcement's most-quoted line: "Students need to worry less about losing their jobs to AI and worry more about losing their jobs to people who know how to use AI."

No public AI-specific statement from Dean Liu was identified. His public positioning focuses on creative excellence, design thinking, human-centered innovation, and community building.

9.2 People

Lu Liu — Dean (since July 2023). Professor of industrial design. Previously led Graphic Design and Industrial Design at NC State (2012–2023). Named IDSA Fellow in 2025. No public AI-specific statements identified.

Sida Dai — Assistant Professor of Building Structures and Design, School of Architecture (hired Fall 2024). PhD from Clemson. Research intersects AI, structural engineering, and HCI within an architectural context. Has explored reinforcement learning for optimizing building performance. Published on generative AI for computationally mediated posters (IUI 2024). Developing AI-based dynamic acoustic systems (Faculty-Initiated Research Grant). Listed as a collaborator on Haghnazar's Mood-vironment installation (arch.vt.edu, September 2026). The Responsive Sound Space installation (with Algargoosh, Nichols, Dee; ICAT "Open (at the) Source" exhibition, May 2025) is described on the college site as a shape-changing wall system with projection and spatial audio, without an AI label.

Ashley Anderson — Assistant Professor of Graphic Design, SOVA (hired Fall 2024). PhD candidate (2024) from NC State. Research explores generative AI technologies to facilitate psychological interventions addressing stereotype threat for Black first-year undergraduate students in STEM.

Alaa Algargoosh — Assistant Professor, School of Architecture (hired Fall 2024). PhD from University of Michigan. Research merges architecture, neuroscience, and material science. Current work in generative AI for design and supportive acoustic experiences.

Ramtin Haghnazar — Assistant Professor of Architecture. Co-designed "Mood-vironment," an interactive public art installation displayed in New Bedford, Massachusetts (summer/fall 2025) as part of the Design Art and Technology Institute biennial. The installation used AI to translate visitors' facial expressions and vocal cues into an evolving environment of light and sound. VT students fabricated and assembled the installation. Featured on VT's Research and Innovation AI frontier page (March 2026). Also led the "Bamboo Nexus" installation at the AMT 2025 Conference at Indiana University, integrating augmented reality into the assembly process. Teaches Integrated Computational Design and Digital Fabrication. Mood-

vironment won Silver in the Design for Impact category of the Design Educates Awards 2026 (announced September 14, 2026); the college's announcement credits Mona Ghandi, Sida Dai, and 18 other named collaborators.

Andrew Gipe-Lazarou — Assistant Professor, School of Architecture. Co-PI of the AI-Accessibility project. Recipient of the 2024 Sally Brown Excellence in Design Education Award. Published *Weird-Fictional Narratives in Art, Architecture, and the Urban Domain* (Cambridge Scholars Press, 2024, co-editor). Teaches ARCH 3234 (Topics: AI-Accessibility + Blind Design Workshops, offered Fall 2026). Conference presentations include "Assistive LLM for Individuals with Vision-Impairment" at ICAT Playdate (February 2025, with Borunda) and "AI-Accessibility: Challenges and Opportunities for Inclusive Design Technologies" at the AAD Research Symposium (November 2024). Previously worked with Rem Koolhaas at OMA. Founded a nonprofit offering multi-sensory travel experiences for blind people. Co-PI on VR-ACCESS (2026-27 SEAD grant with Chang-Tien Lu, Sanghani, and Eiman Elgewely). Recipient of the 2026 AIAS/ACSA New Faculty Teaching Award (January 2026), whose citation describes the "AI-Accessibility Seminar" that "challenges students to design and test new building technologies aimed at maximizing the functionality of AI navigation aids for individuals with disability" and states he has "directly instructed more than 500 students across twenty different courses over the past four years." VT News (April 2026) reported the fifth year of the Blind Design Workshop as an "AI-driven accessible design seminar" in which "AI allows early students of design to visualize space with language," with guest lecturer Chris Downey (UC Berkeley). The Fall 2026 ARCH 3234 listing could not be verified for this snapshot.

Luis Borunda Monsivais — Assistant Professor, School of Architecture. Co-PI of the AI-Accessibility project. Specializes in computational design and digital fabrication, 3D printing, robotics, and sensor integration.

Margarita McGrath — Associate Professor of Architecture. Led the "HI | AI" course (see Section 9.3).

Eiman Elgewely — Assistant Professor of Interior Design, School of Design. ICAT Senior Fellow. Faculty affiliate of CHCI. Founding director of the Visualization and Virtual Reality Lab. Scholarship incorporates AI and extended reality for cultural heritage, museum design, and education. Received a Faculty-Initiated Research Grant for "From AI-Aided Design to

Computer-Aided Manufacturing: Bridging Digital Concepts to Sustainable Fabrication in Interior Design Education."

Thomas Tucker — Associate Professor, SOVA. Member of the Summer 2024 "Teaching with AI" faculty cohort organized by TLOS.

Jeffrey Loeffert — Director, School of Performing Arts. Member of the university AI Futures Working Group (appointed spring 2026; roster published August 20, 2026); collaborator on the university-wide AI minor.

Kimberly Goddard Loeffert — Associate Professor, School of Performing Arts. Gave the August 28, 2026 CDRS Distinguished Lecture, "Disciplinary Thinking as AI Literacy," arguing that "disciplinary expertise already functions as AI literacy," with music theory as the case and Universal Design for Learning as a route to AI integration. The SOPA profile (Kimberly Loeffert, Associate Professor; modified August 10, 2026) lists her research as including "Artificial Intelligence (AI) and creative rights, AI and Universal Design for Learning"; the "Kim Loeffert" on the Summer 2024 cohort roster (Unit 5) is the same faculty member.

Irene Curulli (Landscape Architecture) and **Eunju Hwang** (School of Design) — PIs on the two AI-component CDRS Collaborative Research Grants of 2026 (\$10,000 each): "Resilient Post-Industrial Landscapes along the James River: A Collaborative AI and Archival Approach" and "Human-Centered GeoAI for Age-Friendly Walkability" (with Junghwan Kim, CNRE).

David Kennedy — Assistant Professor of Practice (WAAC), fall 2026 hire, teaching with "emerging computational tools for design and performance evaluation." The other fall 2026 architecture hires (Scott Colman, Michael Ezban, Alyssa Kuhns) carry no AI or computation description.

9.3 Teaching & Curriculum

"HI | AI" Course (Spring 2024)

Led by Associate Professor Margarita McGrath in the School of Architecture. Students developed "human intelligences" alongside experimentation with "artificial intelligences." They interviewed stakeholders to create an RFP for a new AAD building, then used AI to augment small local design firms for a mock competition. AI augmentations included fictional built projects, client testimonials, staff members, and design visions. Five teams presented AI-generated boards and pitches to a jury including the VT University Architect. This is one of the few documented VT courses with "AI" in the title.

ARCH 3234: Blind Design Workshop

Topics module taught by Gipe-Lazarou, incorporating AI-Accessibility research into studio instruction. Offered Fall 2026 (listing not verified for this snapshot). Students designed and built exhibit pieces for the Cube, participated in Blind Design Workshops with vision-impaired participants, and tested AI-enhanced navigation tools.

Creative Technologies Program (SOVA)

The BFA and MFA in Creative Technologies are STEM-designated. ART 3114 (Creative Coding for Creativity and Innovation) addresses generative and algorithmic artwork, the artful application of randomness, and ethics of algorithmic systems. The Collaboration for Creative Technologies in Arts and Design (CCTAD) is a cross-disciplinary initiative with Art, Music, Computer Science, and Communications.

Ongoing Faculty Hiring

SOVA ran a tenure-track search for a graphic design faculty position (start August 2026) with explicit interest in candidates whose expertise in "AR, VR, AI, motion, web, and interaction" reflects the future trajectory of the profession, and in "responsible/transparent AI use." The SOVA faculty page as of September 2026 lists graphic design faculty as Silvia Alberti, Meaghan A. Dee, and Rachael Paine; no new AI-profile hire is visible, and the outcome of the search is not documented.

No AAD-specific AI teaching guidelines have been publicly documented.

9.4 Tools & Technology

The AI-Accessibility project uses Meta Aria glasses for indoor mapping and a SmartGuide mobile app (AI-enhanced navigation aid tested with two vision-impaired participants in November 2024). Students and faculty from the School of Architecture and Department of Computer Engineering conducted the usability test.

Haghnazar's Bamboo Nexus project at AMT 2025 used AR overlays to guide physical assembly of bamboo elements without traditional drawings or templates.

Institutional AI tools are documented in Part I, Section IV.

9.5 Research & Scholarship

AI-Accessibility Project (ICAT Major SEAD Grant, 2024-2025)

Multidisciplinary project investigating agency and accessibility in the age of AI — covering on-campus navigation, accessible public infrastructure, inclusive tourism, and medical facilities. Full team: Andrew Gipe-Lazarou (Co-PI, Accessibility + Design Lead), Luis Borunda Monsivais (Co-PI, Technical Lead), Meng Zhu (Marketing/Pamplin, Co-PI), Na Meng (Computer Engineering, Co-PI), Abhijit Sarkar (VTI, Data + Analytics, Co-PI), and Ralisa N. Dawkins (STS/CLAHS, Accessibility, Co-PI).

Activities documented through ICAT reporting: AI-Accessibility Workshop (Fall 2024) where students reimagined spatial experiences; SmartGuide app usability test (November 29, 2024) with two vision-impaired participants; Cube exhibition (April 9, 2025) with approximately 25 student-constructed pieces; Blind Design Workshop (5-day immersive program for 12-15 aspiring young designers with vision impairment, in collaboration with the Virginia Department for the Blind and Vision Impaired); alumni weekend workshop on AI accessibility and inclusive design (June 2024); and NFB (National Federation of the Blind) workshops in Portsmouth, VA (Fall 2024), where older participants used AI to solicit suggestions for interior layouts.

Planned extensions: professional development session at the Kennedy Center's Office of Accessibility 2025 LEAD Conference (Cleveland, OH, August 2025); AI-Design workshop at the NFB 2025 National Convention (New Orleans, July 2025); and accessible tourism collaboration with Professor Kristin Lamoureux (Hospitality and Tourism Management, Pamplin) and Access Alexandria.

The ICAT project report notes a challenge: "architecture students took the lead, and the functionality of AI wasn't as integrated as it could have been if they had been more deliberately designed / built together."

Faculty-Initiated Research Grants with AI Components

Dai's dynamic acoustic system using AI and sensors for real-time spatial adaptation. Elgewely's project bridging AI-aided design to computer-aided manufacturing in interior design education.

Anderson's research on generative AI for psychological interventions addressing stereotype threat is in progress.

Haghnazar's "Mood-vironment" installation featured on VT's Research and Innovation AI frontier page (March 2026) and won Silver, Design for Impact, in the Design Educates Awards 2026 (September 2026). Two 2026 CDRS Collaborative Research Grants with AI components went to AAD faculty (Curulli; Hwang with Kim), alongside non-AI awards to Borunda,

Lamoureux, and Zhu ("In the Eyes Of," an oral-history archive continuing the accessible-tourism thread), Dee, Lantz, and Nichols ("Belonging"), Paine, Lechner, Yoo, and Tural and Tucker. A \$20 million gift from Salahuddin and May Choudhury to the School of Architecture (July 2026) carries no AI or technology language.

9.6 Events & Public Engagement

The "HI | AI" course presentations (April 11, 2024) functioned as a public event with a jury including the University Architect. The AI-Accessibility Blind Design Workshop and alumni weekend workshop (June 2024) engaged external participants. The Cube exhibition (April 2025) was a public-facing research showcase. The NFB workshops in Portsmouth (Fall 2024) and planned NFB National Convention workshop (July 2025) and Kennedy Center LEAD Conference session (August 2025) extend AAD's AI engagement to national disability and accessibility communities.

"Assistive LLM for Individuals with Vision-Impairment" presentation at ICAT Playdate (February 17, 2025), jointly presented by Gipe-Lazarou and Borunda.

Kimberly Goddard Loeffert's CDRS Distinguished Lecture, "Disciplinary Thinking as AI Literacy" (August 28, 2026). The 2026 Blind Design Workshop with a Chris Downey lecture. The New Music + Technology Festival (September 14 to 19, 2026; School of Performing Arts, ICAT, Center for the Arts) included works using large language models for real-time dance observation and analysis.

Gaps and Observations

AAD's AI activity is the most creatively distinctive in the inventory. The AI-Accessibility project, the Mood-vironment installation, the "HI | AI" course, and Anderson's generative AI for stereotype threat work all approach AI from angles that no other VT college occupies. The Fall 2024 hiring wave signaled deliberate AI-relevant capacity-building without a formal AI strategy; 2026 added a national teaching award and an international design award to the record, and Loeffert's seat on the AI Futures Working Group gave the college a position in institutional governance it did not have before. The 2026 graphic design search, advertised around AI competence, has no visible outcome.

The ICAT project report's self-critique — that AI functionality wasn't as integrated as it could have been — is notable for its candor and suggests

the team recognizes the gap between design ambition and technical execution. Whether AAD develops the computational depth to close that gap, or continues to depend on engineering collaborators, will shape the college's AI trajectory.

Cross-References

- **ICAT (Unit 22):** AI-Accessibility project funded by ICAT Major SEAD grant. Elgewely is ICAT Senior Fellow. ICAT Playdate hosted Gipe-Lazarou/Borunda presentation.
- **CLAHS / STS (Unit 5):** Ralisa Dawkins (STS Ph.D. student) is Co-PI on AI-Accessibility.
- **Pamplin (Unit 3):** Meng Zhu (Marketing) is Co-PI on AI-Accessibility. Accessible tourism collaboration with Kristin Lamoureux (HTM).
- **College of Engineering (Unit 4):** Na Meng (Computer Engineering) is Co-PI on AI-Accessibility.
- **VTTI (Unit 13/14):** Abhijit Sarkar (VTTI) is Co-PI on AI-Accessibility.
- **TLOS (Unit 18):** Tucker participated in Summer 2024 AI Faculty Cohort.
- **Part I, Section IX:** Hagnazar's Mood-vironment featured on VT's AI frontier page.

Sources

AAD faculty research page — highlights AI, material science, acoustics, and immersive tech across the college's research portfolio.

<https://aad.vt.edu/research/faculty.html>

AI-Accessibility project page (School of Architecture) — project description, team members, activities, and research scope.

<https://arch.vt.edu/experiential-learning/research-and-creative-scholarship/ai-accessibility.html>

ICAT SEAD grants page for AI-Accessibility — funding details and project summary.

<https://icat.vt.edu/projects/supported-research/sead-grants/2024-2025/major/ai-accessibility.html>

Digital Fabrication and Computational Design projects page (School of Architecture) — Hagnazar's Mood-vironment and Bamboo Nexus projects.

<https://arch.vt.edu/experiential-learning/research-and-creative-scholarship/digital-fabrication-and-computational-design-projects.html>

Gipe-Lazarou faculty profile — research areas, Sally Brown Award, OMA background, and nonprofit work.

<https://arch.vt.edu/people/blacksburg-faculty/gipe-andrew.html>

VT Research and Innovation AI frontier page — features Haghazadeh's Mood-virionment installation (March 2026).

<https://www.research.vt.edu/initiatives/research-frontiers/artificial-intelligence.html>

VT News on AAD Faculty-Initiated Research Grants (May 2025) — Dai and Elgewely AI-related projects.

<https://news.vt.edu/articles/2025/05/aad-FIRG-projects.html>

AAD career opportunities page — SOVA graphic design tenure-track search targeting AI, AR, VR, and interaction expertise (start August 2026).

<https://aad.vt.edu/resources/aad-job-openings.html>

AAD graduate programs page — Human-Centered Design graduate program in development with College of Engineering, AAD faculty managing the design track.

<https://aad.vt.edu/academics/graduate.html>

VT News on Blind Design Workshop (April 2022) — earlier iteration of Gipe-Lazarou's accessibility design work.

<https://news.vt.edu/articles/2022/04/unirel-blinddesignworkshop.html>

Summer 2024 AI Faculty Cohort site — Tucker listed as AAD/SOVA participant.

<https://aiteaching.vt.domains/about-this-site/>

arch.vt.edu: Mood-virionment wins Design Educates Award (September 14, 2026).

<https://arch.vt.edu/news-and-events/news/fall-2026/moodvirionment-design-educates-award.html>

VT News: redefining architecture for accessible design, Blind Design Workshop (April 2026).

<https://news.vt.edu/articles/2026/04/cm-redefiningarchitectureforaccessibility.html>

arch.vt.edu: Gipe-Lazarou 2026 AIAS/ACSA New Faculty Teaching Award (January 2026).

<https://arch.vt.edu/news-and-events/news/spring-2026/2026-AIAS-ACSA-New-Faculty-Teaching-Award.html>

ACSA 2026 architectural education award winners.

<https://www.acsa-arch.org/awards-archive/2026-architectural-education-award-winners/>

arch.vt.edu: fall 2026 new faculty.

<https://arch.vt.edu/news-and-events/news/fall-2026/new-faculty-welcome.html>

SOVA faculty page (graphic design faculty as of September 2026).

<https://sova.vt.edu/faculty.html>

Chronicle jobs: SOVA graphic and experience design posting (2025).

<https://jobs.chronicle.com/job/37891896/assistant-professor-graphic-and-experience-design/>

arch.vt.edu: Responsive Sound Space at the ICAT exhibition.

<https://arch.vt.edu/news-and-events/news/spring-2026/responsive-sound-space-icat-exhibition.html>

School of Performing Arts profile: Kimberly Loeffert, Associate Professor (modified August 10, 2026).

https://sopa.vt.edu/faculty_staff/music-faculty/music-theory-musicology-faculty/kimberly-loeffert.html

Unit 10. Virginia-Maryland College of Veterinary Medicine (VMCVM)

Key Signals: VMCVM's AI activity concentrates in research labs and data infrastructure rather than governance or teaching policy. Its distinctive signals include AI-assisted veterinary diagnostics (Pacholec's CNN-based cancer detection), biodefense AI (Kehn-Hall's \$3.25M DTRA hemorrhagic fever project), and a veterinary terminology standardization group that VT describes as the only team in the world maintaining the veterinary extension of SNOMED CT — the foundational data layer without which AI in veterinary medicine cannot function at scale.

VMCVM is a constituent college of both Virginia Tech and the University of Maryland, with locations in Blacksburg, Roanoke (Animal Cancer Care and Research Center), Leesburg (Marion duPont Scott Equine Medical Center), and College Park, MD (Gudelsky Veterinary Center). Approximately 480 DVM students, 90 graduate students, 130 faculty, and 340 staff in Virginia. Dean M. Daniel Givens has led the college since June 2020.

10.1 Governance & Policy

No VMCVM-specific AI policy, AI task force, or generative AI guidance for DVM students or faculty has been publicly documented. VMCVM follows the university-wide AI framework. The DVM Curriculum Committee "constantly monitors and reviews" the curriculum, and an ad hoc Curriculum Review Working Group was appointed for comprehensive review, but no public documentation of AI integration into these reviews was identified. No public AI-specific statement from Dean Givens was identified.

10.2 People

M. Daniel Givens, DVM, PhD, DACT, DACVM — Dean (since June 2020). Fifth dean. Previously associate dean for academic affairs at Auburn. Member of VASEM. No public AI-specific statements identified.

Kylene Kehn-Hall — Professor of Virology, Department of Biomedical Sciences and Pathobiology. Received the 2024 Zoetis Research Excellence Award. Her lab uses AI to study hemorrhagic fever viruses (\$3.25M DTRA grant). Collaborates with Hehuang Xie on Venezuelan equine encephalitis neurological research.

Christina Pacholec, DVM, PhD — Assistant Professor, Clinical Pathology, Department of Biomedical Sciences and Pathobiology (Virginia Tech Animal

Laboratory Services); appointment date not shown. PhD, Biomedical and Veterinary Sciences (defended May 2025). Dissertation: "Advancing Veterinary Cytology with Deep Learning: Development, Validation, and Best Practices." Lead author of a two-part peer-reviewed series on AI quality assurance in veterinary diagnostics. Faculty research mentor in the 2026 Summer Veterinary Student Research Program on a smartphone-based AI tumor-grading project (see 10.3).

Hehuang "David" Xie — Professor of Epigenomics and Computational Biology, Department of Biomedical Sciences and Pathobiology; joint appointment at the Fralin Life Sciences Institute. PhD dissertation co-chair for Pacholec.

Kurt Zimmerman — Professor of Clinical Pathology, Department of Biomedical Sciences and Pathobiology. PhD committee chair for Pacholec. Faculty mentor on the 2026 summer smartphone-AI mast cell tumor grading project (see 10.3).

Audrey Ruple, DVM, MS, PhD, DACVPM, MRCVS — Dorothy A. and Richard G. Metcalf Professor of Veterinary Medical Informatics (named 2022 by the Board of Visitors). Associate Professor of Quantitative Epidemiology, Department of Population Health Sciences. The Metcalf Professorship specifically recognizes faculty engaged in information technology to advance veterinary medicine. Co-PI and executive operations team member of the Dog Aging Project (the largest prospective study of dog health ever undertaken; published in *Nature*). Founding member of Fetch Forward (veterinary insurance data analytics). Chair of the Veterinary Advisory Board for Fetch pet insurance. Advocate for natural language processing in veterinary informatics. Led the PetSORT initiative establishing standardized reporting guidelines for clinical trials involving dogs and cats (published in *Frontiers*).

Julie Green, DVM, MS — Research Assistant Professor and Director of the Veterinary Terminology and Standards Group. The VT team maintains the veterinary extension of SNOMED CT (VetSCT), which VT describes as the only team in the world doing so. In 2014, SNOMED's international governing body recognized Virginia Tech's extension as the authoritative global source for all veterinary terminology. Team: Green, Wayde Shipman, Katie Krothapalli. First author of "Building the language of veterinary surveillance" (*American Journal of Veterinary Research* 87(6), June 2026, with Katie Krothapalli and Loyd W. Shipman). Speaker at the 2026 Talbot

Veterinary Informatics Symposium on data exchange standards (NAHLN, AHRMS).

A February 2026 VT News feature detailed the group's role during the avian influenza dairy herd outbreak: when labs across the country needed to test milk samples for a virus never before analyzed that way, new codes for sample types, testing methods, and species combinations had to be created rapidly. The VT team could produce codes in days rather than the 12–18 months that global SNOMED additions previously required. International use is expanding; Australia, South Korea, and other countries lobbied SNOMED International for easier access. Green noted that most veterinarians still record in free text, making data "effectively invisible to research or artificial intelligence applications." Several veterinary schools (Minnesota, Tufts, UC Davis, Colorado State) are working to transform clinical records into research-ready datasets using shared terminology.

10.3 Teaching & Curriculum

The DVM curriculum page describes integration of basic and clinical sciences, team-based learning, and early clinical entry but makes no mention of AI tools, AI detection, or generative AI guidelines. No AI-specific course has been publicly documented. AI has entered the DVM research track: in the 2026 Summer Veterinary Student Research Program (19th year; supported by an NIH T35 grant and Boehringer Ingelheim; director S. Ansar Ahmed), two DVM students ran smartphone-plus-AI tumor grading projects (VT News, August 13, 2026). Brandon Duncan (Class of 2029; mentor Zimmerman) trained a model on iPhone photographs of stained cytology slides from 28 archived canine mast cell tumor cases; a first model reached 67.8 percent accuracy and a second, "trained on more cases and evaluated patient by patient rather than photo by photo, reached 82.1% accuracy, within about 10 percentage points of the accuracy of modern pathology." Lydia Nesser (Class of 2029; mentor Pacholec) tested soft tissue sarcoma grading from Google Pixel photographs of 24 cases; three-grade classification "performed no better than chance," and grade one versus grade three "climbed to near 60 percent," with case count the limiting factor. Both presented at the Veterinary Scholars Symposium at NC State.

Pacholec undertook multiple machine learning and image analysis courses and participated in AI workshops as part of her PhD preparation, suggesting that computational pathology training is available as elective or supplementary coursework within the graduate program.

10.4 Tools & Technology

No VMCVM-specific AI tools or platforms have been publicly documented. The VetSCT infrastructure, while not an AI tool itself, constitutes the data standardization layer on which veterinary AI applications depend. Mars Veterinary Health is currently implementing SNOMED CT and VetSCT into its software system for its European practices network. Institutional AI tools are documented in Part I, Section IV.

10.5 Research & Scholarship

AI in Veterinary Diagnostics (Pacholec/Xie/Zimmerman)

A two-part peer-reviewed series published in *Veterinary Clinical Pathology* (2025, Vol. 54, Suppl. 2). Part I ("Harnessing artificial intelligence for enhanced veterinary diagnostics: A look to quality assurance — Model development," pp. S30–S42) reviews AI's transformative potential in veterinary pathology, covering cell enumeration, cancer detection, prognosis forecasting, virtual staining, and individualized treatment. Part II ("External validation," pp. S43–S51) covers explainable AI, model uncertainty, and stress testing. The series notes that veterinary medicine is a "high-risk setting" where incorrect AI output could lead to inappropriate diagnosis, delayed treatment, or euthanasia.

Pacholec's PhD research includes convolutional neural network performance for differentiating canine large cell lymphoma from nonlymphoma via lymph node cytology, AI for detection of minimal residual disease in dogs treated for lymphoma, and effects of image magnification, type, and resolution on AI model accuracy. Funded by the VMCVM Veterinary Memorial Fund, AKC Canine Health Foundation, and Morris Animal Foundation.

AI for Hemorrhagic Fever Virus Research (Kehn-Hall)

A \$3.25 million Defense Threat Reduction Agency grant supports AI-based study of hemorrhagic fever viruses, in collaboration with the University of Montreal and SRI International. The project focuses on short linear motifs (SLiMs) in viral proteins and uses AI to predict protein-protein interactions between viral and host proteins. Starting with Rift Valley fever virus, the work will expand to other hemorrhagic fever viruses to build an AI-trained library for predicting interactions when new viruses emerge.

Veterinary Terminology and Standards (Green/Shipman/Krothapalli)

The VetSCT standardization work is AI-adjacent rather than AI-native, but it constitutes the data infrastructure layer without which AI applications in veterinary medicine cannot function at scale. The avian influenza dairy herd response (2024-2025) demonstrated the operational urgency of rapid terminology creation. The common data model initiative across multiple veterinary schools relies on SNOMED terminology to make records comparable and searchable for large-scale research. The group published "Building the language of veterinary surveillance" in the American Journal of Veterinary Research (87(6), June 2026; DOI 10.2460/ajvr.26.04.0157; open access). The article states that VTS "completed migration of VetSCT to SNOMED's Managed Services platform" in March 2026, that VTS led development of the Animal Health Regulatory Message Structure with USDA Veterinary Services (completed September 2025, now in vendor testing), and that the infrastructure "was built over 20 years by a 3-person team." The VTSL site lists the "Veterinary Edition of SNOMED CT" March 31, 2026 release as loaded.

Ruple — Veterinary Medical Informatics

NLP in veterinary informatics, the Dog Aging Project (with Stanford University), Fetch Forward data analytics, and PetSORT standardized reporting directly intersect AI methodology.

10.6 Events & Programming

30th Annual Talbot Veterinary Informatics Symposium (September 2024)

The national conference of the Association for Veterinary Informatics returning to Virginia Tech, where it originated. Named after Richard Talbot, VMCVM's inaugural dean. Presentations included pet insurance data analytics, zoonotic disease monitoring, and student research on Lyme disease prediction in dogs.

2026 Talbot Veterinary Informatics Symposium (September 24-25, 2026)

Held virtually by the Association for Veterinary Informatics, not at Virginia Tech. Theme: "Artificial Intelligence / Machine Learning in clinical practice and academia, as well as standard terminology," with day one on evaluation and trust in AI systems and day two on practical implementation. Julie Green presents on data exchange standards. Other speakers include Jeanine Fletcher on the state of citations in ChatGPT, Gemini, and Claude for five

veterinary topics and Yumi Chang on language models in veterinary records.

Gaps and Observations

VMCVM's AI profile is anchored by three distinct strands: Pacholec's diagnostic AI research (already generating national citations), Kehn-Hall's biodefense AI, and Green's VetSCT standardization work. The informatics infrastructure — Ruple's Metcalf Professorship, the VetSCT group, the Talbot Symposium — gives VMCVM a data foundation that most veterinary schools lack.

The gap is on the governance and curricular side. No VMCVM AI policy, AI-integrated DVM curriculum, or dean-level AI statement was publicly documented. Pacholec's graduation did not end the diagnostic AI line: she is on the faculty as an assistant professor of clinical pathology and is mentoring DVM students on the same problem, and Zimmerman is doing the same. The research line has a faculty home. What it does not have is any presence in the curriculum beyond a summer research program.

Green's observation that most veterinarians record in free text, making data "effectively invisible to AI," frames the fundamental challenge: the infrastructure her team builds is necessary but insufficient. AI in veterinary medicine depends on adoption by practitioners who are not yet using structured data.

Cross-References

- **Fralin Life Sciences Institute (Unit 22):** Xie holds a joint appointment.
- **CALS (Unit 1):** Veterinary data standardization connects to agricultural animal surveillance through NAHLN. Precision livestock research depends on standardized terminology.
- **Part I, Section VIII:** institutional data and computing investment context for the college's veterinary informatics work (Ruple's Metcalf Professorship, Green's VetSCT), which Part I does not itself cover.

Sources

VMCVM home page — college overview, locations, and leadership.

<https://vetmed.vt.edu/>

VMCVM research page — labs, informatics, and veterinary sciences portfolio.

<https://research.vetmed.vt.edu/>

Veterinary Medical Informatics lab page — Ruple's research areas and Metcalf Professorship description.

<https://research.vetmed.vt.edu/labs/veterinary-medical-informatics.html>

Julie Green faculty profile — VetSCT directorship and terminology standards work.

<https://vetmed.vt.edu/people/faculty/green-julie.html>

Veterinary Terminology Standards Lab (VTSL) home page — VetSCT description and global authority status.

<https://vtsl.vetmed.vt.edu/>

VT News on veterinary terminology and the avian influenza response (February 2026) — VetSCT's operational role, international expansion, and Green's quote on free-text records.

<https://news.vt.edu/articles/2026/02/vetmed-vth-veterinary-terminology.html>

VT News on Kehn-Hall Zoetis Research Excellence Award (February 2025) — \$3.25M DTRA grant and AI-based hemorrhagic fever virus research.

<https://news.vt.edu/articles/2025/02/vetmed-zoetis-research-award-kehn-hall.html>

VT News on AI cancer diagnostics in veterinary medicine (March 2024) — Pacholec's CNN research and clinical applications.

<https://news.vt.edu/articles/2024/03/vetmed-AI-cancer-diagnostics.html>

VT News on VTSL SNOMED recognition (December 2022) — historical context for VetSCT's global authority status.

<https://news.vt.edu/articles/2022/12/vetmed-VTSL.html>

Pacholec PhD dissertation (VTechWorks, May 2025) — full title and scope of deep learning in veterinary cytology research.

<https://vtechworks.lib.vt.edu/items/6ba847ee-b22c-4264-8ce4-1b9fe44f3920>

Pacholec et al., AI quality assurance Part I — *Veterinary Clinical Pathology*, 2025, Vol. 54, Suppl. 2, pp. S30-S42.

<https://onlinelibrary.wiley.com/doi/10.1111/vcp.13401>

Pacholec et al., AI quality assurance Part II — *Veterinary Clinical Pathology*, 2025, Vol. 54, Suppl. 2, pp. S43-S51.

<https://onlinelibrary.wiley.com/doi/10.1111/vcp.13407>

VMCVM faculty profile: Christina Pacholec, Assistant Professor, Clinical Pathology.

<https://vetmed.vt.edu/people/faculty/pacholec-christina.html>

VT News: 2026 Summer Veterinary Student Research Program, smartphone-AI tumor grading (August 13, 2026).

<https://news.vt.edu/articles/2026/08/vetmed-summer-research-program.html>

PubMed record: Green, Krothapalli, Shipman, AJVR 2026.

<https://pubmed.ncbi.nlm.nih.gov/42049062/>

2026 Talbot Veterinary Informatics Symposium program.

<https://avinformatics.org/Talbot2026>

AJVR 87(6), June 2026: "Building the language of veterinary surveillance" (Green, Krothapalli, Shipman; open access).

<https://avmajournals.avma.org/view/journals/ajvr/87/6/ajvr.26.04.0157.xml>

Unit 11. University Libraries

Key Signals: The University Libraries are the most active non-academic AI unit in this inventory. Dean Tyler Walters is one of only a few VT deans to have made public AI statements. Yinlin Chen has emerged as a national-level leader in library AI literacy through the IMLS-funded LIBRAI incubator program, a VT prompt library, professional development courses, and published commentary. The Libraries function as an information-literacy intermediary — curating, linking, and contextualizing institutional AI guidance rather than generating standalone AI policy.

11.1 Governance & Policy

No standalone Libraries AI policy was identified on lib.vt.edu or the AI guide. Patrick Tomlin, Associate Dean for Academic and Creative Engagement, co-chairs the university AI Working Committee (Division of IT governance site, modified August 7, 2026; term to June 30, 2029; roster in Part I, Section I.B). The Libraries curate and aggregate institutional AI guidance through the "AI: Tips & Tools from Your Librarians" research guide, which links to VT's AI principles, TLOS GenAI guidance, SIRC research AI guidance, the Graduate School GenAI statement, SCHEV's AI reference guide, Virginia Executive Order 30, federal guidance (USPTO inventorship guidance, Department of Education AI report), and professional society AI position statements. As of September 23, 2026 the guide (guides.lib.vt.edu/ai; author of record Yinlin Chen) has five tabs (Home; What is AI?; Using (and Citing) AI; Resources, Tools & More; Guidance & Policies), and the Guidance & Policies page has grown: at the VT level it adds ai.vt.edu, PDN AI sessions, ARC AI-as-a-Service, and a Generative AI Learning Community sign-up; at the state level the VITA higher-education AI registration page (linked as the January 2024 executive order), the Virginia AI Education Guidelines, and VITA AI policy and standards; nationally the Campus AI Exchange policy map and USPTO AI resources; and, in a section new since April 2026, funding-agency AI guidance from NSF, NIH (NOT-OD-25-132), DOE Office of Science, and IMLS. The Libraries have no representative on the university AI Futures Working Group.

The guide's home page now carries the advisory: "Think twice about the information you put into an AI tool—if you would not post your AI prompts and other inputs in a blog, then they should not be in an AI tool either!" and notes that "VT's Copilot specifically does not train on your data." The earlier

advisory, which asked the community not to share "any personal, sensitive or high-risk data in publicly available AI platforms (e.g. ChatGPT.com, DeepSeek.com)," no longer appears on the home page. The page routes questions to an AI Support Group (ai-library-support-g@vt.edu): "Have questions or need more in depth help? Reach out to our AI Support Group!"

The guide does not address AI detection tools; the institutional position is documented in Part I, Section III.C.

11.2 People

Tyler Walters, PhD — Dean (since March 2011). Previously associate dean for technology and resource services at Georgia Tech. One of the few VT deans to have made public AI statements. In the *Collegiate Times* (March 2026), he stated that the Libraries' digital archives have been implementing AI for approximately five years, primarily as a consolidation and organization tool, and that generative AI is used for summarization, saving "months and months of time." In *Times Higher Education* (September 2025), he described library studios equipped with tools for augmented, virtual, and extended reality, photogrammetry, and "increasingly, machine learning and AI," emphasizing the staffing model — library professionals providing tailored support beyond technology access alone.

Yinlin Chen — Associate Director of the Center for Digital Research and Scholarship (CDRS) (promoted 2026; previously Assistant Director), Associate Professor in University Libraries (promoted 2025). Affiliate faculty in the Department of Computer Science (since 2023). PhD in Computer Science and Applications from Virginia Tech. PI on the IMLS LIBRAI grant. Curates the AI: Tips & Tools research guide, hosts online lectures, and teaches Introduction to Artificial Intelligence in the CS department. Presented "Transforming Libraries for the Future: Elevating Service Innovation with Generative AI and Prompt Engineering" at CNI (May 2024), introducing the VT prompt library for academic libraries. Taught "Efficient Prompt Engineering for Librarians" for the Association of College and Research Libraries. Teaches "Intro to Prompt Engineering" through VT Continuing and Professional Education — a course covering RAG techniques, LLM-powered chat-based applications, and intelligent agents, with a Certificate of Completion from VT CPE. Author of record for the AI research guide (updated September 23, 2026). Listed with Bill Ingram as event contact for the CDRS Distinguished Lecture Series, which ran two AI lectures in 2026 (see 11.6).

In *Times Higher Education* (September 2025), he argued that librarians will become "not only information experts but essential AI facilitators and navigators."

Chen also leads a separate IMLS National Leadership Grant (LG-254883-OLS-23): "Curating Very Large Biomedical Image Datasets For Librarian-In-The-Loop Deep Learning" (2023–2025). A VT Libraries Collaborative Research Grant funded "Leveraging Large Language Models to Understand the Financial Behavior of Women and Minority Groups" (2023–2024).

Edward Fox — Professor of Computer Science and co-PI on the IMLS LIBRAI grant. Director of the Digital Library Research Laboratory.

Bruce Pencek — Assistant Director for Collection Development. Raised concerns about AI summarization losing distinctive research details, noting the "least common denominator" problem with summary tools.

Bipasha Banerjee — Library partner on both AI-component CDRS Collaborative Research Grants of 2026 (Hwang/Kim GeoAI walkability, with Jennifer Goyne; Curulli AI and archival landscapes). Mengyu Yin presents "AI Tools for Researchers & Publishing Tips" (October 20, 2026, Zoom).

Key leadership: Andi Ogier (Associate Dean, Data Services and Faculty Affairs), Bill Ingram (Associate Dean and Executive Director, Information Technology), Julie Griffin (Senior Associate Dean, Scholarly Communications), Patrick Tomlin (Associate Dean, Academic and Creative Engagement), Virginia Pannabecker (Assistant Dean and Director, Research Collaboration and Engagement).

11.3 Teaching & Curriculum

Through digital literacy initiatives, the Libraries offer in-class workshops related to AI and digital ethics on a limited basis. Chen's ACRL course on prompt engineering for librarians represents national-level professional development. The CPE prompt engineering course extends this training to a broader audience with a formal VT certificate. The IMLS LIBRAI program includes a structured training component.

The AI: Tips & Tools guide's "Resources, Tools & More" page (updated September 23, 2026), which replaced the earlier "starter tips" list of ChatGPT, Claude, Google Gemini, and Microsoft Copilot, now carries an institution-facing tool list in three tiers: "Virginia Tech-Approved AI tools" (ChatGPT Edu, annotated "The ChatGPT Edu pilot will end on Dec. 31, 2026."; Google Gemini App; Google NotebookLM; Google AI Pro; Microsoft

Copilot Chat; Microsoft 365 Copilot Chat; ARC LLM gateway; ARC LLMs via Open OnDemand); "Other AI tools and cloud platforms" (ChatGPT, Claude, Claude Code, GitHub Copilot, Cursor, OpenAI Codex, Perplexity; the page says these "should only be used with low-risk, public data"); and "Research AI Tools" (Consensus and scite.ai, annotated as prior VT trial subscriptions; Covidence, free for VT users), plus Connected Papers, Elicit, Litmaps, Research Rabbit, SciSpace, and Undermind.ai. HokieAI is absent from the September 23 version, and the page does not link the VT prompt library. Fall 2026 workshops include "AI-enhanced Collaborative Qualitative Analysis with Atlas.ti Web" (October 8, 2026, Nathaniel Porter; library calendar) and, on the graduate workshops guide, "AI Tools for Researchers & Publishing Tips" (October 20, 2026). ai.vt.edu's resources page (June 2026) links this page as "University Libraries AI Resources, Tools, and More."

11.4 Tools & Technology

The Libraries maintain the VT prompt library (promptlibrary.cdrr.lib.vt.edu, VT access), described as a specialized collection of effective prompts to fine-tune LLMs and act as an instructional dataset for AI training.

Media Design Studios and technology-rich spaces include a prototyping studio (3D printing, laser cutting), immersive environments (the Cube via ICAT partnership), and emerging technology labs. Walters confirmed these are "increasingly" equipped with ML/AI capabilities. Three "data and informatics consultant" positions — a researcher/technologist/curator hybrid role — have been created.

An AWS partnership for AI and security literacy was referenced by Walters on LinkedIn. Reported but URL not confirmed beyond the LinkedIn post.

11.5 Research & Scholarship

IMLS LIBRAI Program (RE-256655-OLS-24, \$115,398)

"Liberating Libraries through Generative Artificial Intelligence Incubator Program." Two-year planning project. Partnership between Virginia Tech University Libraries and the University of California, Riverside. PI: Yinlin Chen. Co-PIs: Edward Fox (VT CS) and Zhiwu Xie (UC Riverside). Year 1 (2024–2025): workshop and curriculum development, pilot workshops at VT and UCR, program evaluation. Year 2 (2025–2026): curriculum refinement, national virtual workshops at four strategically selected universities (VT for Virginia/D.C., UCR for the UC system, UIUC for the Midwest, UNT for the

South), capstone projects in four themes (GenAI literacy, collection, preservation, research), and the 1st LIBRAI Symposium (June 2026). A VT PhD student graduate assistant converts workshop materials into online asynchronous courses.

LIBRAI is one of two IMLS-funded library AI projects led by Chen, alongside the DPLA-funded metadata pilot led by Ng, and the only one with a national training program.

Additional Funded Projects

IMLS National Leadership Grant for Biomedical Image Curation (LG-254883-OLS-23): "Curating Very Large Biomedical Image Datasets For Librarian-In-The-Loop Deep Learning" (2023-2025). PI: Chen.

The DPLA-funded Metadata Remediation and AI-Enhanced Workflow Pilot (announced March 18, 2026, documented in Part I, Section VII; Wen Nie Ng, digital collections and emerging formats librarian) trains library student employees to work with AI tools for metadata tasks. The CDRS Collaborative Research Grants, listed on the center's page under a "Seed Funding for AI Research" heading, made ten awards announced May 19, 2026 (call closed April 16; the awards page states the ten "were selected through a random draw"), two with AI components: "Human-Centered GeoAI for Age-Friendly Walkability: Curated Data and Visual Infrastructure at Warm Hearth Village" (\$10,000; Hwang, Kim, Banerjee, Goynes) and "Resilient Post-Industrial Landscapes along the James River: A Collaborative AI and Archival Approach" (\$10,000; Curulli, Banerjee). The other eight awards carry no AI component. The CDRS page states that "The mission of the CDRS's AI initiatives is to empower innovation, collaboration, and ethical integration of artificial intelligence within library operations, services, and research" and a vision "to position the CDRS as a leader in leveraging artificial intelligence to transform academic library operations, services, and research."

11.6 Events & Programming

The RISE Lecture Series includes "Responsible Use of Artificial Intelligence in Research and Scholarly Writing." Chen's CNI presentation (May 2024) was a national-level event. CDRS issues periodic calls for proposals. A first LIBRAI symposium was announced for June 2026; no program, recap, or news item confirming it took place was found as of the evidence snapshot date. The CDRS Distinguished Lecture Series ran two AI lectures in 2026: "Responsible AI at the Library of Congress" (Natalie Buda Smith, "Director

of Digital Strategy (AI and Innovation) at the Library of Congress"; April 24, 2026; five tenets: "trustworthy outcomes; exploration before implementation; strong governance and security; essential staff expertise; and well-scoped, mission-rooted implementations") and "Disciplinary Thinking as AI Literacy" (Kimberly Goddard Loeffert, School of Performing Arts; August 28, 2026). The guide lists "Unlocking the Power of AI in Research" (September 18, 2026, Steger Hall) with a research.vt.edu registration link that no longer resolves; the February 2026 edition was run by the Office of Research and Innovation and DoIT.

Gaps and Observations

The Libraries are doing more with AI than most academic colleges in this inventory. Chen's combination of a CS PhD, affiliate CS faculty appointment, IMLS-funded programs, a national training curriculum, and published commentary makes him arguably the most institutionally effective single faculty member in VT's library AI ecosystem. Walters's public statements, while measured, are more specific than most deans' — he names tools and describes operational applications.

The Libraries do not generate AI policy; they curate and contextualize it. This intermediary role is well suited to the institution but depends on other units (TLOS, SIRC, Graduate School) producing the primary guidance. The prompt library and LIBRAI program are the Libraries' original AI contributions, distinct from the curation function. In 2026 the curation got materially better: the guide's tool page is the only page identified in this inventory that lists approved tools, other tools, and research AI tools together, and it records the ChatGPT Edu end date. The LIBRAI symposium's status is unknown, and the Libraries were left off the AI Futures Working Group.

Cross-References

- **TLOS (Unit 18):** Libraries curate and link to TLOS GenAI guidance.
- **Graduate School (Unit 12):** Libraries link to the GenAI Graduate School Statement.
- **SIRC (Unit 20):** Libraries link to SIRC research AI guidance.
- **Part I, Section VII:** Libraries AI guidance page and DPLA metadata pilot documented.
- **College of Engineering / CS (Unit 4):** Edward Fox (CS) is co-PI on LIBRAI. Chen holds CS affiliate appointment.

Sources

AI: Tips & Tools from Your Librarians research guide — curated AI resource page linking institutional, state, and federal guidance.

<https://guides.lib.vt.edu/AI>

VT prompt library — specialized prompt collection for LLM fine-tuning and instructional use.

<https://promptlibrary.cdrrs.lib.vt.edu/>

Yinlin Chen CDRS profile — title, promotions, research areas, and program leadership.

<https://lib.vt.edu/center-for-digital-research-and-scholarship/people/our-team/yinlin-chen.html>

Chen personal site — publications, teaching, grants, and professional activities.

<https://www.yinlinchen.com/>

VT News on IMLS LIBRAI grant (September 2024) — grant amount, partners, program structure, and national scope.

<https://news.vt.edu/articles/2024/09/univlib-grant-AI-training.html>

VT Notice on prompt engineering course (CPE) — course description, RAG techniques, and certificate.

<https://news.vt.edu/notices/univlib-AI-prompt-engineering.html>

IMLS award page for LIBRAI (RE-256655-OLS-24) — official grant record.

<https://www.imls.gov/grants/awarded/re-256655-ols-24>

Collegiate Times on VT Libraries and AI (March 2026) — Walters quotes on five years of AI in digital archives and summarization time savings.

https://www.collegiatetimes.com/news/virginia-tech-libraries-embrace-ai/article_720de91f-801f-47bc-924a-4166897f4668.html

CNI presentation by Chen (May 2024) — "Transforming Libraries for the Future" prompt engineering presentation at national conference.

<https://www.cni.org/topics/information-access-retrieval/transforming-libraries-for-the-future-elevating-service-innovation-with-generative-artificial-intelligence-and-prompt-engineering>

ACRL prompt engineering course for librarians — national professional development offering.

<https://acrl.ala.org/acrlinsider/efficient-prompt-engineering-for-librarians-online-course/>

Libraries graduate workshop series, fall 2026.

<https://guides.lib.vt.edu/gradworkshops>

Library calendar: "AI-enhanced Collaborative Qualitative Analysis with Atlas.ti Web" (October 8, 2026).

<https://calendar.lib.vt.edu/event/17571138>

Unit 12. Graduate School

Key Signals: The Graduate School's primary AI contribution is the Generative AI Graduate School Statement, co-authored by Dean Aimée Surprenant and Dale Pike (TLOS). The statement was one of the earliest formal VT responses to generative AI. Its "cautiously optimistic" framing and emphasis on faculty autonomy established the tone that the institutional AI framework later built upon.

12.1 Governance & Policy

The Graduate School does not maintain an AI policy separate from the institutional framework. Jeremy Sippel, the Graduate School's IT Director, co-chairs the university AI Working Committee, and Pooja Bhagawat represents the Graduate Student Senate on it (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). The GenAI statement serves as guidance, not policy. It defers to the Graduate Honor Code (Article 1: honesty and ethical behavior in all academic pursuits), individual faculty judgment on AI appropriateness, TLOS workshops and engagements, and the Graduate Honor System for case-by-case adjudication. The statement's TLOS-hosted page is dated July 27, 2025 and unchanged. No AI provision for theses, dissertations, or ETDs was found: the Libraries' ETD policies guide (updated August 10, 2026; owner Janice Austin, Assistant Dean and Director of Admissions and Academic Progress), the graduate catalog policies page (June 2026), and the Graduate Honor System Constitution (effective fall 2025; page modified August 27, 2026) contain no AI language. The Graduate Honor System's web pages now carry AI references: the main page (modified September 15, 2026) links the university's AI principles, the Graduate School statement, TLOS guidance, and a Chronicle of Higher Education piece, and the GHS faculty resources page supplies syllabus language: "Plagiarism, cheating (including inappropriate/unauthorized use of AI tools), or other suspected violations of the Honor Code will be reported to the Graduate Honor System for review and adjudication." Whether the AI clause was added inside the April to September 2026 window cannot be determined from page dates. ai.vt.edu's restructured resources page (June 2026) no longer lists the Graduate School statement; it remains reachable through TLOS, the Libraries guide, and the GHS page.

Key Positions of the GenAI Statement

Tone is described as "cautiously optimistic," acknowledging "legitimate concerns about the potential misuse of new AI technologies" while noting "tremendous potential for these tools to positively augment human capabilities and productivity across many disciplines."

Academic integrity: "Using ChatGPT or other AI to generate work and misrepresenting it as one's own original work (replacing the student's effort expected by the course instructor with AI or using AI to replace rather than augment learning) would constitute cheating or plagiarism under the Code."

Faculty autonomy: "The extent to which AI is appropriate for any given coursework is a decision faculty will need to make on a course-by-course or assignment-by-assignment basis."

Recommendations for faculty include ensuring syllabi directly address generative AI use, frequently communicating AI-use expectations, focusing assignments on applying skills over reciting facts, emphasizing critical analysis and personal reflection, considering formative over summative assessment, conducting open discussions on responsible AI use, and grounding conversations in Honor Code principles.

A GenAI community email list is available for faculty who want to participate in occasional AI conversations and event announcements.

The statement does not endorse AI detection tools. VT's institutional position (documented in Part I, Section III.C) applies.

12.2 People

Aimée M. Surprenant — Dean, Graduate School. Co-authored the GenAI Graduate School Statement with Dale Pike. One of only a few VT deans to have co-authored a public AI statement. No 2026 AI statement from her was identified. Associate deans (July 2026 org chart): Kevin Edgar, William Huckle, Barbara Hoopes; Chief of Staff: Monika Gibson. Janice Austin (Assistant Dean, Admissions and Academic Progress) owns the ETD policies guide. GHS leadership (main page, September 15, 2026): Chair Molly Ryan (2025-26); Associate Chairs Emmanuel Edusei (2026-27) and Mitch Gerhardt (2025-26, 2026-27); Advisor Monika Gibson.

12.3 Teaching & Curriculum

The GenAI statement's faculty recommendations constitute the Graduate School's guidance for AI in graduate teaching. No Graduate School-specific AI courses, workshops, or training programs have been publicly

documented. Faculty and graduate students are directed to TLOS resources.

12.4 Tools & Technology

Institutional AI tools are documented in Part I, Section IV.

12.5 Research & Scholarship

Not publicly documented in available sources at the Graduate School level. Research AI guidance is provided by SIRC (documented in Part I, Section VI).

12.6 Events & Programming

The Master Your Future professional development series (contact Trey Waller) schedules "The Machine Cannot Dream: Research, Storytelling, and the Future of Graduate Work in the Age of AI" for November 12, 2026 (Zoom; speaker not named in the listing), the first Graduate School-run AI programming found. GLC Weekly issues from April to May 2026 carry no other Graduate School AI programming; the dean's weekly updates through May 15, 2026 mention AI only in passing (the April 10 update notes attendance at "a couple of AI and research talks") and went monthly over the summer.

Gaps and Observations

The Graduate School's GenAI statement was timely and set a tone that the broader university adopted. But it is a single document, not an ongoing program. The 2026 additions are modest: an AI clause in suggested syllabus language on the Honor System's site, a link set, and one scheduled webinar. No AI provision for theses, dissertations, or ETDs was found on the ETD policies guide, the graduate catalog policies page, or the GHS Constitution, which is the question most directly within the Graduate School's remit and the one it has not addressed. Operational responsibility stays with TLOS and the Honor System.

Cross-References

- **TLOS (Unit 18):** Pike co-authored the GenAI statement with Surprenant. TLOS provides the workshop and resource infrastructure the statement directs faculty toward.
- **Libraries (Unit 11):** The Libraries' AI guidance page links to the Graduate School GenAI statement.

- **Part I, Section II.C:** GenAI Graduate School Statement documented as supplemental guidance.
- **Part I, Section III.B:** Graduate School guidance summarized.
- **Part I, Section V:** Graduate Honor System's role in AI-related academic integrity.

Sources

Graduate School home page — institutional overview and dean.

<https://graduateschool.vt.edu/>

VT ai.vt.edu resources page — earlier versions linked the GenAI Graduate School Statement; the June 10, 2026 version does not list it.

<https://ai.vt.edu/resources.html>

GHS faculty resources: suggested syllabus language including AI tools.

<https://graduateschool.vt.edu/academics/expectations/graduate-honor-system/ghs-faculty-resources.html>

GHS Constitution (effective fall 2025; no AI language).

<https://graduateschool.vt.edu/academics/expectations/graduate-honor-system/ghs-constitution.html>

Libraries ETD policies and procedures guide (updated August 10, 2026; no AI language).

<https://guides.lib.vt.edu/c.php?g=547528&p=3815991>

Graduate School org chart, July 2026.

https://graduateschool.vt.edu/content/dam/graduateschool_vt_edu/org-charts/grad-school-org-chart-07-2026.pdf

GLC Weekly, September 21-27, 2026: Master Your Future AI session (November 12, 2026).

<https://glcweekly.graduateschool.vt.edu/2026/09/21/september-21-27-2026/>

Graduate School dean's weekly updates archive.

<https://graduateschool.vt.edu/about/deanscorner/weekly-updates.html>

Units 13/14. Virginia Tech Transportation Institute (VTTI) + Hume Center / National Security Institute (NSI)

Key Signals: VTTI operates one of the world's largest transportation safety research facilities (the Smart Road, \$1B+ in research since 2001) with AI embedded across autonomous vehicle perception, decision-making, and collision avoidance systems. NSI, built on the Hume Center foundation, operates at the nexus of AI, cybersecurity, and national defense — launching the Navy AI Training Program, described by VT and AWS as the first generative AI training program at a senior military college, and maintaining RF machine learning research capabilities. Neither unit has published standalone AI governance.

VTTI is one of the world's largest transportation safety research organizations, operating the Smart Road (12+ miles of instrumented roadway with weather-making capability), the Virginia Automated Corridors (70+ miles of Northern Virginia interstates/arterials), and a Falls Church Smart City test bed. The National Security Institute, using the Hume Center for National Security and Technology as its foundation, operates at the nexus of AI, cybersecurity, and national defense.

13/14.1 Governance & Policy

Kevin Kefauver, Director of Data and Analytics at VTTI, sits on the university AI Working Committee (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). Neither VTTI nor NSI/Hume Center has published a standalone AI governance policy, AI ethics framework, or AI-specific operational guidelines. Both defer to university-wide governance documented in Part I.

VTTI's NEC intersection safety deployment included software-based privacy filtering per VDOT requirements; no individual identification or authentication technologies were used. This represents a project-level privacy safeguard rather than a formalized AI governance protocol.

The AWS generative AI cadet training program offered through NSI/Hume Center was described by Deputy Director Jamie Cogbill as not having detailed information on how it addressed AI risks — the content was provided by AWS.

In December 2025, the National Security Agency designated programs within ECE, CS, and the Hume Center as a National Center of Academic Excellence in Cyber Defense and Cyber Research.

13/14.2 People

VTTI

Zachary (Zac) Doerzaph — Executive Director. Leads the autonomous vehicle program. Expert commentary on the federal automatic emergency braking standard (NHTSA).

Mike Mollenhauer — Director, Division of Technology Implementation. Led the NEC 5G+AI intersection safety partnership.

Rich Hanowski — Director, Division of Freight, Transit, and Heavy Vehicle Safety. Oversaw the autonomous trucking CONOPS project. Co-founder of Motorcycle Safety Solutions.

Andrew Krum — Senior Research Associate. PI on the \$7.5M USDOT autonomous trucking concept of operations project.

Jonathan Darab — Operations Director, GCAPS. Leads cybersecurity simulation for autonomous vehicles.

Kaitlyn Bedwell — Team leader, Supply Chain, Transportation, Automation and Resource Sustainability team. Project lead for the Dock to Door Coalition's GO Virginia workforce pathways grant with Torc Robotics.

Jacobo Antona-Makoshi — Research scientist. Led the RISE/AstaZero international collaboration on standardized AV safety evaluation methods.

Feng Guo — Professor of Statistics (College of Science) and lead data scientist for VTTI. Patricia Caldwell Faculty Fellow (Board of Visitors).

Abhijit Sarkar — VTTI researcher. Led a report on AI in transportation published by the National Academies of Sciences, Engineering, and Medicine. Co-PI on the AI-Accessibility project (Unit 9).

NSI / Hume Center

Eric Paterson — Executive Director of NSI (appointed 2021). Rolls-Royce Commonwealth Professor of Marine Propulsion; former head of Aerospace and Ocean Engineering.

Kelli Esser — Chief Strategy Officer and Interim Co-Director of the Intelligent Systems Division. Background: DHS Strategic Advisor for R&D

Coordination. PhD Biophysics, MA Applied Economics (Johns Hopkins). Leads the Navy AI Training Program.

Stephen Adams — Assistant Director, Intelligent Systems Division. Led research on adapting AI models for detecting new cyberattacks using transfer learning (2021–2024); the project won an outstanding research award from NSI.

Jamie Cogbill — Deputy Director, Defense Civilian Training Corps at Virginia Tech's National Security Institute. Led the Fall 2025 AWS Generative AI and Amazon Bedrock Training pilot. Coordinated with AWS to reserve at least half the training slots for Corps of Cadets members; the inaugural cohort exceeded that threshold. Public statement on the program's strategic positioning: "As one of our nation's six senior military colleges, Virginia Tech has the opportunity to be on the cutting edge of answering this call, and the AWS GenAI training certainly supports this goal." The spring 2026 Corps Review identifies him as "Col. Jamie Cogbill, Deputy Director for the Rice Center for Leader Development"; whether both titles are current is not stated. The same source describes David Appel as "a vice president for AWS and VTNSI board member."

Austin Phoenix — Director, Mission Systems Division, VTNSI; a named lead of the Counter-UAS Testing and Research Center opened August 28, 2026 (see 13/14.4). The ORI organizational chart (August 5, 2026) lists Eric Paterson as Executive Director of VTNSI and Zac Doerzaph as Executive Director of VTTI, unchanged.

Feng Guo — Lead data scientist, Division of Data and Analytics, VTTI, and professor in the Department of Statistics; senior author of the April 2026 *Nature Communications* study on automated driving system test-case selection (see 13/14.5).

13/14.3 Teaching & Curriculum

Navy AI Training Program (June 2025-)

NSI launched its inaugural AI Training Program with the Naval Surface Warfare Center, Dahlgren Division (NSWCDD) — the largest of the 10 warfare centers in the U.S. Navy. The program consists of three levels: Level 1 is a one-day leadership course providing an AI overview with activities to identify organizational priorities. Levels 2 and 3 are each one week long and conclude with capstone projects. Faculty from NSI, the Virginia Tech Statistical Applications and Innovations Group (SAIG), and the Sanghani Center deliver the curriculum. Courses are scheduled throughout

2026 with material adjusted to the evolving AI landscape. No 2026 cohort figures had been published as of the evidence snapshot date. A June 16, 2026 Axios sponsored placement paid for by Virginia Tech restates the program, quotes Melanie C. King on its value to NSWCDD, and states that, through the Hume Center, "VTNSI engages more than 1,000 clearable students each year."

AWS Generative AI and Amazon Bedrock Training (Fall 2025)

Virginia Tech, through NSI/Hume Center, piloted what was described as the first generative AI training program at a senior military college, in partnership with Amazon Web Services. The inaugural cohort of the AWS Generative Artificial Intelligence and Amazon Bedrock Training was offered to a combined 75 students drawn from the Virginia Tech Corps of Cadets, the Defense Civilian Training Corps, and the Hume Center for National Security and Technology. About 38 of the 75 were Corps of Cadets members; the remainder were NSI-affiliated students. The course was structured as two instructor-led four-hour sessions plus a four-hour hands-on AWS Jam lab, delivered across two cohort offerings (September 8 and 12 / September 22 and 23, with the lab on September 29, 2025). Curriculum: foundational concepts of generative AI, prompt engineering, retrieval-augmented generation (RAG), and agent-based applications using Amazon Bedrock. Participants received a discount on the AWS Certified AI Practitioner Exam, providing a credentialing pathway. AWS was exploring scaling the program to all six senior military colleges for 2026. A second offering followed in spring 2026. The Corps Review reports that "AWS offered four new 4-hour training sessions to over 30 students, more than half being cadets," and that "Amazon hopes to eventually expand this training to other senior military colleges and civilian universities." Cadet Tristan Price '27: "AI is now another tool in the toolbox rather than a magical black box." The Hume Center's course page for the program was last modified September 2, 2025 and still shows only the fall 2025 cohort; no 2026 cohort page or risk-content description has been published.

The program directly supports the White House AI Action Plan released in July 2025, which calls on senior military colleges to become "hubs of AI research, development, and talent building" and to "foster AI-specific curriculum in the senior military colleges throughout majors." Virginia Tech is one of six congressionally-designated senior military colleges. Jackson Cummings, a senior in the Corps of Cadets and Defense Civilian Training Corps pursuing dual degrees in National Security and Foreign Affairs and Russian, framed his participation in workforce-readiness terms: "A big

reason I wanted to take this course is that AI fluency is becoming essential for everyone in the modern workforce, but especially service members." David Appel, vice president of AWS Global Government, described the partnership as developing "critical AI expertise in the defense sector by providing students with the practical skills they need to lead in increasingly AI-driven environments." Cogbill noted that the course content was provided by AWS and that he did not have specifics on how the curriculum addressed AI risk management — a documentation gap on the responsible-use side of an otherwise well-documented training pathway.

Dock to Door Coalition — AV Workforce Pathways (November 2025-)

VTTI leads the Dock to Door Coalition, a 90+ member partnership spanning industry, government, higher education, and non-profits. A GO Virginia Region 2 planning grant with Torc Robotics supports planning to align university and community college curricula with workforce needs across the autonomous vehicle manufacturing ecosystem. The autonomous manufacturing sector is the second largest in Virginia's Region 2.

Hume Center Education Programs

The Hume Center operates several student-facing programs relevant to AI-adjacent national security talent development: the Department of War Cyber Service Academy Scholarship Program, the Defense Civilian Training Corps (DCTC), and the Intelligence Community Center for Academic Excellence (IC CAE).

VTTI InternHUB

Paid internship program placing VT students with leading employers on driverless vehicle safety research.

13/14.4 Tools & Technology

VTTI Infrastructure

VTTI operates a Level 4 autonomous driving system on a modified Ford F-150 and has conducted multiple high-profile AV demonstrations. The Virginia Smart Road spans 12+ miles with advanced sensors, weather-making capability, optical fiber networks, differential GPS, and highway/rural/urban simulation sections. An automation hub on the Smart Road supports autonomous transportation research. The Smart Road has generated close to \$1 billion in research since 2001.

The Virginia Automated Corridors (VAC) supports testing and certification of automated vehicle systems across 70+ miles of Northern Virginia

interstates and arterials, with dedicated HOT lanes, HD mapping, real-time traffic data, and location cloud technology.

VTTI's partnership with NEC Corporation of America combined private 5G and AI-based video analytics for a roadway warning system. Phase 1 (September 2022) demonstrated proof of concept on the Smart Road. Phase 2 (January–March 2023) expanded testing with CBRS spectrum and O-RAN specifications. The system predicted collisions within 0.5 seconds of detection.

The AV-Emergency Vehicle Interaction Study tested AV-emergency vehicle interactions on I-395 express lanes using NVIDIA DRIVE Hyperion platform (320 trillion operations per second AI computing). Partners included NVIDIA, CAMP LLC, VDOT, and Transurban.

Nauto AI Driver Monitoring Validation (April 2025): VTTI validated Nauto's AI driver monitoring system, finding it detected 100% of distracted driving events in both daylight and nighttime conditions and alerted in under five seconds.

GCAPS — Cybersecurity for Autonomous Vehicles

The Global Center for Automotive Performance Simulation partnered with VTTI and CCI Southwest Virginia to build a virtual data library of real-world driving scenarios for securing autonomous vehicles against cyberattacks.

NSI Infrastructure

The Intelligent Systems Division operates research infrastructure spanning data science, ML, AI, cybersecurity, and complex systems engineering. ISD capabilities include AI system test and evaluation, metric development for operational AI systems, critical test set development for AI assurance, and evaluations of transfer learning effectiveness. VTNSI maintains 17 public repositories on GitHub.

Counter-UAS Testing and Research Center (August 2026)

Opened at Kentland Farm on August 28, 2026 as a partnership of the Mid-Atlantic Aviation Partnership and VTNSI with the U.S. Army, funded by "a \$5 million award from the U.S. Army Futures Command Combat Capabilities Development Command C5ISR Center" (project first announced May 2025). Facilities: an indoor RF signal lab, "A virtual environment to model complex drone threats," an outdoor range with synthetic drone emulators, a sensor network "to measure the performance of counter-drone systems, sensors, and algorithms," and a test drone library. The article describes VTNSI as "home to some of the nation's top research faculty in

autonomy, spectrum dominance, cyber security and resilience, artificial intelligence, test and evaluation, and machine learning." The ribbon cutting was attended by Sands, Senator Warner, Rep. Griffith, Duma (ICTAS), Sui, Phoenix, and Paterson. The center is test infrastructure rather than an AI deployment; its relevance here is the algorithm-evaluation role.

13/14.5 Research & Scholarship

VTTI

\$7.5M USDOT Autonomous Trucking CONOPS (2020-2024): VTTI and 17 partners developed a guidebook for implementing automated driving systems in large trucks. Partners included Pronto.ai and Kodiak Robotics. PI: Andrew Krum.

International AV Safety Testing — RISE/AstaZero (2025): VTTI collaborated with RISE Research Institutes of Sweden's AstaZero facility to pioneer standardized automated vehicle safety evaluation methods.

NIST Collaboration (March 2024): The NIST Automated Vehicles team visited VTTI to discuss collaborative research covering AI, perception systems, AV communications, co-simulation, and system interactions.

DVBench (August 2025): VTTI-affiliated researchers published DVBench, a benchmark evaluating Vision Large Language Models' performance in safety-critical driving scenarios, featuring 10,000 multiple-choice questions.

National Academies AI in Transportation Report: Abhijit Sarkar led a VTTI team that produced a report on AI's future role in transportation.

Automated Driving System Test-Case Selection (*Nature Communications*, April 2026): Feng Guo, Xin Xing (Statistics), and former VTTI research assistants Chen Qian and Jingbin Xu used the SHRP2 naturalistic driving database ("33 million travel miles"), drawing about 300,000 segments (about 31,000 miles), to select representative and safety-critical test cases and benchmark automated driving systems against human drivers. Guo: "ADS training uses relatively large data sets, but many times those kinds of rare corner cases are not necessarily comprehensively represented in the training data sets." Future work names "deep generative modeling to create new rare or unseen driving scenarios." DOI 10.1038/s41467-026-69675-8.

Pedestrian communication (2026): a VTTI-Zoox study of audio tones for automated vehicle to pedestrian communication (Charlie Klauer, Rafael Patrick, Tanner Upthegrove; 40 participants, Smart Road; published at the

28th Enhanced Safety of Vehicles Conference; Newswise release September 9, 2026). It is not AI-specific on its face.

NSI / Hume Center

RF Machine Learning: The Hume Center advances radio frequency machine-learning research and the application of deep ML to wireless communication and electronic warfare applications.

Adaptive AI for Cyberattack Detection: Stephen Adams led research on adapting AI models for detecting new cyberattacks using transfer learning (2021–2024). NSI outstanding research award.

\$300K NSF Grant for Secure AI Research Ecosystem (January 2026): VT researchers, including Rockwell Clancy (Engineering Education), received NSF funding to build a more resilient, responsible, and secure AI research ecosystem, addressing espionage, misuse, and ethical misconduct vulnerabilities.

13/14.6 Events & Programming

Hume Center Colloquium

The 12th annual Colloquium (April 2025) featured presentations on AI and ML, cybersecurity, autonomy, and emerging technologies for the intelligence and defense communities. The 10th annual (2023) featured keynote by Dr. Stacy Dixon, Principal Deputy Director of National Intelligence. The 13th annual Colloquium (April 21, 2026, Squires Student Center; also billed as the 2026 Hume Center and IC CAE Colloquium) featured keynote George C. Barnes, former Deputy Director of the NSA, and student research "addressing artificial intelligence and machine learning, cybersecurity, autonomy, secure communications, and other emerging technologies."

AI Expo for National Competitiveness

NSI was featured at the first AI Expo for National Competitiveness in Washington, D.C. (2024).

D2D Coalition Annual Event (2026)

The Dock to Door Coalition hosts an annual event organized by VTTI.

Gaps and Observations

VTTI and NSI both deploy AI as a core operational tool — not as a subject of governance deliberation. Neither has published AI governance documents,

which is consistent with their roles as applied research organizations rather than academic units with student-facing policy needs.

The governance gap is most notable for the AWS cadet training program. Cogbill's statement that he did not have specifics on how the training addressed AI risks, and that the content was provided by AWS, raises questions about institutional oversight of externally delivered AI curricula at a senior military college. The program is small (75 students) and new, but if it scales to all six senior military colleges as AWS has proposed, the governance question becomes more consequential. The second offering in spring 2026 was reported through the Corps of Cadets alumni magazine with an enrollment count and a cadet quote; neither the Hume Center course page nor the spring 2026 Corps Review describes the training's treatment of AI risk.

VTTI's infrastructure — the Smart Road, the VAC, the GCAPS cybersecurity simulation, the NEC 5G partnership, the NVIDIA platform — represents some of the most capital-intensive AI-adjacent research at VT. The Dock to Door Coalition's workforce development work connects this research capacity to the broader regional economy.

Cross-References

- **College of Engineering / Sanghani Center (Unit 4):** Sanghani faculty deliver Navy AI Training Program curriculum. NSA CAE designation covers ECE and CS alongside Hume Center.
- **College of Science (Unit 2):** Feng Guo (Statistics) serves as VTTI's lead data scientist. SAIG faculty contribute to Navy AI Training.
- **AAD (Unit 9):** Abhijit Sarkar (VTTI) is Co-PI on the AI-Accessibility project.
- **Innovation Campus (Unit 21):** Falls Church Smart City test bed near VT's Northern Virginia Center.
- **Part I, Section VIII:** Research Frontier "Harnessing AI for Intelligence Augmentation."
- **Part I, Section IX:** executive and federal signaling context; the White House AI Action Plan reference (senior military colleges as AI talent hubs) appears in this dossier only.

Sources

VTTI home page — institutional overview, Smart Road, and AV research program.

<https://www.vtti.vt.edu/>

Virginia Automated Corridors (VAC) facility page — 70+ mile testing corridor description.

<https://www.vtti.vt.edu/facilities/vac.html>

VT News on AV emergency vehicle demonstration (October 2023) — NVIDIA DRIVE Hyperion, I-395, and partner details.

<https://news.vt.edu/articles/2023/10/research-autonomousvehicledemo.html>

VT News on USDOT autonomous trucking CONOPS (August 2024) — \$7.5M project, 17 partners, and final report.

<https://news.vt.edu/articles/2024/08/vtti-research-conops.html>

VT News on RISE/AstaZero AV safety testing (November 2025) — international collaboration and standardized methods.

<https://news.vt.edu/articles/2025/11/research-VTTI-Automated-vehicle-testing.html>

NVIDIA blog on VT AV-emergency vehicle testing — technical details of the DRIVE Hyperion platform. As of September 2026 the address resolves to a generic NVIDIA category page; the original post was not found there.

<https://blogs.nvidia.com/blog/virginia-tech-test-av-emergency-vehicles/>

NIST visit to VTTI (March 2024) — collaborative research discussion on AI and perception systems.

<https://www.nist.gov/news-events/news/2024/03/nist-automated-vehicles-team-visits-virginia-tech-transportation-institute>

New River Valley article on Smart Road — \$1B research value and automation hub.

<https://newrivervalleyva.org/virginia-tech-smart-road-leading-autonomous-vehicle-research/>

Cardinal News on Smart Road autonomous vehicle research — history and current capacity.

<https://cardinalnews.org/2024/02/20/virginia-techs-smart-road-is-a-driving-force-in-autonomous-vehicle-research/>

Design News on Nauto AI driver monitoring validation (April 2025) — 100% detection rate findings.

<https://www.designnews.com/automotive-engineering/nauto-s-ai-driver-monitoring-system-proves-benefits-in-virginia-tech-study>

DVBench on VTechWorks (August 2025) — Vision LLM benchmark for autonomous driving scenarios.

<https://vtechworks.lib.vt.edu/collections/6582a037-f40d-4fd5-abb7-e3c52d353b7d>

VT News on NEC 5G+AI intersection safety Phase 1 (November 2022) — proof of concept.

<https://news.vt.edu/articles/2022/11/vtti-nec-ai-safety.html>

VT News on NEC Phase 2 (May 2023) — expanded testing, 0.5-second collision prediction.

<https://news.vt.edu/articles/2023/05/vtti-nec-research-intersection-safety.html>

Torc Robotics on D2D Coalition GO Virginia grant (November 2025) — workforce pathways partnership.

<https://torc.ai/torc-autonomous-vehicle-workforce-training-vtti-dock2door-go-virginia/>

D2D Coalition 2026 annual event page.

<https://www.docktodoor.vtti.vt.edu/2026-coalition-annual-event/>

BusinessWire on D2D Coalition (March 2026) — coalition scope and activities.

<https://www.businesswire.com/news/home/20260310978079/en/>

VT News on GCAPS cybersecurity simulation for AVs (January 2023) — CCI-funded virtual data library.

<https://news.vt.edu/articles/2023/01/simulating-self-driving-security.html>

NSI home page — mission, divisions, and research scope.

<https://nationalsecurity.vt.edu/>

NSI Intelligent Systems Division page — AI system T&E capabilities, transfer learning, and metric development.

<https://nationalsecurity.vt.edu/research/isd.html>

Paterson profile — NSI Executive Director background and appointment.

<https://nationalsecurity.vt.edu/personnel-directory/paterson-eric.html>

Esser profile — Chief Strategy Officer, ISD Co-Director, and Navy AI Training Program leadership.

<https://nationalsecurity.vt.edu/personnel-directory/esser-kelli.html>

Hume Center home page — education programs, scholarship-for-service, and DCTC.

<https://hume.vt.edu/>

Hume Center about page — history, mission, and student programs.

<https://hume.vt.edu/about.html>

12th annual Hume Center Colloquium (April 2025) — AI, ML, cybersecurity, and defense presentations.

<https://hume.vt.edu/engagement/events/AY24-25/the-12th-annual-hume-center-colloquium.html>

10th annual Hume Center Colloquium (2023) — keynote by Dixon (PDDNI), student presentations.

<https://hume.vt.edu/engagement/colloquium/2023.html>

VT News on NSI launch (September 2021) — RF ML description, founding, and ISD establishment.

<https://news.vt.edu/articles/2021/09/research-virginia-tech-national-security-institute-launched.html>

VT News on Adams cyberattack detection award (November 2025) — transfer learning research and NSI outstanding research award.

<https://news.vt.edu/articles/2025/11/vtnsi-team-wins-outstanding-research-award.html>

Virginia Business on NSI launch — Stoney Trent's role and DoD JAIC background.

<https://www.virginiabusiness.com/article/va-tech-launches-national-security-institute/>

Washington Post on NSI at AI Expo for National Competitiveness (2024).

<https://www.washingtonpost.com/creativegroup/virginia-tech/meeting-the-demand-for-national-security/>

VTNSI GitHub repositories — 17 public repos including actuator_dataset, MIMIK, and codex.

<https://github.com/vtnsi>

VT Research Frontiers security page — NSA CAE designation (December 2025).

<https://www.research.vt.edu/initiatives/research-frontiers/security.html>

VT News on Navy AI Training Program (April 2026) — NSWCCD partnership, three-level curriculum, Esser and King quotes.

<https://news.vt.edu/articles/2026/04/Virginia-Tech-faculty-leverage-expertise-AI-to-train-researchers-engineers-for-US-Navy.html>

Federal News Network on AWS generative AI cadet training (December 2025) — program details, Cogbill quotes, scaling plans.

<https://federalnewsnetwork.com/artificial-intelligence/2025/12/virginia-tech-and-amazon-web-services-are-teaming-up-to-train-the-next-generation-of-national-security-leaders-in-generative-ai/>

VT News on AWS cadet AI training launch (October 2025) — enrollment numbers and program structure.

<https://news.vt.edu/articles/2025/10/virginia-tech-and-amazon-web-services-launch-ai-training-program.html>

Hume Center GenAI and Amazon Bedrock Training course page — Fall 2025 cohort schedules (Sept 8/12, Sept 22/23), AWS Jam lab (Sept 29), curriculum description, registration form.

<https://hume.vt.edu/undergraduate-education/curriculum/genai-amazon-bedrock-training.html>

VT News on NSF Secure AI Research grant (January 2026) — \$300K; Zhu PI; Clancy, Lee, and Talerico on the team.

<https://news.vt.edu/articles/2026/01/eng-coe-enged-secure-ai-research-engineering-education.html>

VT Research and Innovation AI frontier page — Sarkar's National Academies report reference.

<https://www.research.vt.edu/initiatives/research-frontiers/artificial-intelligence.html>

Corps Review, spring 2026: AWS generative AI training, phase II.

<https://vtcc.vt.edu/alumni/corpsreview/corpsreviewspring2026/AICorpsAmazon.html>

VT News: Counter-UAS Testing and Research Center opens (August 28, 2026).

<https://news.vt.edu/articles/2026/08/nation-s-drone-defenses-bolstered-by-new-center.html>

Cardinal News: Virginia Tech gears up to fight enemy drones (August 31, 2026).

<https://cardinalnews.org/2026/08/31/virginia-tech-gears-up-to-fight-enemy-drones/>

VT News: VTTI Nature Communications study on ADS test cases (April 29, 2026).

<https://news.vt.edu/articles/2026/04/vtti-research-ultimate-driver-test-autonomous-vehicles.html>

Newswise: VTTI and Zoox pedestrian audio study (September 2026).

<https://www.newswise.com/articles/audio-tones-can-help-automated-vehicles-communicate-with-pedestrians>

Hume Center: 13th Annual National Security Colloquium (April 21, 2026).

<https://hume.vt.edu/engagement/colloquium/2026.html>

Axios sponsored content by Virginia Tech on VTNSI (June 16, 2026).

<https://www.axios.com/local/washington-dc/sponsored/how-research-is-shaping-the-future-of-national-security>

Unit 16. Honors College

Key Signals: No AI-specific governance or positioning has been publicly documented. One AI-specific curricular item now exists: an AI Undergraduate Curriculum Development Grant to Stephanie Lewis and Neal Henshaw for a course in which students "compile research and public discourse on ethical generative AI practices" across professional, academic, and government settings. The college's current staff page lists Dean Rebecca Bott and no longer lists an associate dean for academic affairs. The absence of AI engagement remains notable for a college built on transdisciplinary collaborative discovery.

The Honors College underwent a dean transition during the inventory period: founding dean Paul L. Knox retired in Spring 2025, succeeded by Rebecca Bott-Knutson effective July 1, 2025.

16.1 Governance & Policy

No Honors College-specific AI policy, AI task force, or AI position statement has been publicly documented. The college defers to institutional-level guidance.

Knox served as founding dean from 2016 until his retirement. No public AI-specific statements from his tenure were identified. Bott-Knutson came from the Fishback Honors College at South Dakota State University with a background in animal science and biomedical science. Her appointment announcement does not reference AI.

The Honors College dean search committee was chaired by Pamplin Dean Saonee Sarker — the dean who created Pamplin's AI Taskforce. This creates a personnel link between VT's most AI-active college and the Honors College leadership selection, but no public evidence that AI was a criterion or focus in the dean search.

16.2 People

Rebecca Bott — Dean (effective July 1, 2025). The 2025 appointment announcement used "Bott-Knutson"; the college's staff page (August 2026) uses "Bott."

Paul Heilker — Associate Dean for Academic Affairs and Faculty Fellow for Curriculum Development through at least early 2026; not listed on the college's faculty and staff page as of August 26, 2026. No departure announcement was found. The page lists Lefter Daku (Associate Dean for

Finance and Administration), Sara Vandyke (Associate Dean for Academic Operations), and directors Christina McIntyre and Russell B. Shrader.

Neal Henshaw — Director of Instructional Technology and Spaces. Co-recipient, with Stephanie Lewis, of an AI Undergraduate Curriculum Development Grant (see 16.3). Lewis's Honors title is not given on the recipients page.

16.3 Teaching & Curriculum

The Honors College operates two main curricular tracks: the Honors Diploma (self-designed, 30+ honors credits across colleges) and the Calhoun Honors Discovery Program (CHDP; 140-student pilot combining structured disciplinary education with open-ended collaborative transdisciplinary discovery, with 13 participating programs listed). The Honors Collaborative Discovery Diploma (HCDD) is a limited pilot for 2023–2026 graduating classes.

The Office of Undergraduate Curriculum's AI grant recipients page lists one Honors College award: "Stephanie Lewis, Neal Henshaw | Honors College | Honors College | The proposed course will ask students to compile research and public discourse on ethical generative AI practices in various spaces: disciplinary professional environments, academic settings, government agencies, etc. The course number is an existing structure with learning objectives that can be applied to different topics and this topic does not exist under this course structure." The page carries no cycle label or amount; the program's timeline (December 2025 deadline, spring 2026 development) places it in the first cohort. The 2026-27 catalog's UH course descriptions contain no reference to AI, machine learning, or generative AI, so the grant-funded course, if approved, would be new. No AI workshops or other AI integration into the honors curriculum has been publicly documented. The Calhoun Honors Discovery Program page (November 2025) lists 13 participating programs of study for the CHDP Collaborative Discovery Diploma.

16.4–16.6 Tools, Research, Events

Not publicly documented in available sources.

Gaps and Observations

The Honors College is the lightest unit in this inventory. A program built around transdisciplinary discovery and collaborative problem-solving has one funded AI course proposal and no other visible engagement with the

technology. Whether the Lewis-Henshaw course reaches the catalog is the item to check at the next snapshot.

Cross-References

- **Pamplin (Unit 3):** Dean Sarker chaired the Honors College dean search.
- **Part I, Section III:** Institutional teaching guidance applies to Honors courses.

Sources

Honors College home page — programs, leadership, and curricular tracks.

<https://www.honorscollege.vt.edu/>

Honors College faculty and staff page (August 26, 2026).

<https://honorscollege.vt.edu/About/FacultyStaff.html>

2026-27 catalog: UH course descriptions (no AI references).

<https://catalog.vt.edu/course-descriptions/uhs/>

Calhoun Honors Discovery Program page.

<https://honorscollege.vt.edu/chdp.html>

Unit 17. Division of Information Technology / CIO Office (including Advanced Research Computing)

Key Signals: DoIT co-maintains ai.vt.edu with TLOS and administers the risk classification standards that govern all AI tool procurement and use at the university. In August 2026 it launched HokieAI, the newest university-supported generative AI platform open to all students, faculty, and staff at no cost and the first approved for all data risk levels short of export-controlled data. ARC's AI infrastructure has evolved rapidly: its first GPU cluster Infer (January 2021) was replaced by the 208-GPU Falcon cluster (December 2024), the AI-as-a-Service LLM offerings launched March 2025, and the Owl cluster gained 32 NVIDIA B200 GPUs in summer 2026 under a \$5 million FY26 investment with \$6 million planned for FY27. The AI Working Committee, housed in IT governance, is operational; the governance page says it will establish three subgroups. CIO Sharon Pitt sits on the president's AI Futures Working Group.

The Division of Information Technology (DoIT) is Virginia Tech's central IT organization, reporting to the EVP and COO. It manages enterprise systems, cybersecurity, network infrastructure, and — through Advanced Research Computing (ARC) — high-performance computing and AI-as-a-Service.

17.1 Governance & Policy

David Raymond, Associate Vice President for Security and Identity, co-chaired the AI Working Group that produced the Responsible and Ethical AI Framework (profiled in Part I, Section I). Karen Herrington, Director of Strategic Analytics, served as the DoIT representative on the Working Group.

Risk Classification System

DoIT manages the three-tier risk classification system for all software including AI tools: low-risk (public data only with unapproved tools), moderate-risk (ChatGPT Edu approved), high-risk (as of September 23, 2026: HokieAI, the ARC LLM services, Microsoft Copilot Chat, Microsoft 365 Copilot, the Google Gemini app, Gemini Notebook, Google AI Pro, and the three cloud platforms approved). Policy 7010 (Securing Technology Resources and Services) governs departmental risk analysis for technology assets. The IT Security Office evaluates tools for high-risk data approval.

The ai.vt.edu data-risk page (August 8, 2026) now gives tier examples (low: "Published research, public university information, course catalog content, general knowledge questions"; moderate: "Student records (FERPA), personnel records, internal university communications, unpublished research, draft grant proposals"; high: "SSNs, financial account numbers, protected health information (HIPAA)," "export-controlled research data (CUI / ITAR / EAR)," and further categories) and states that HokieAI's "vendor agreement with Cloudforce stipulates that user inputs will not leave Virginia Tech custody, and that they will not be used to train current or future AI models." The tools page (September 23, 2026) adds a blanket rule: "High risk data classified as export controlled or controlled unclassified information is NOT authorized for use with any AI tools."

DoIT implemented the DeepSeek restriction in February 2025 per Virginia Executive Order 46. The separate ByteDance/Tencent application restrictions derive from a December 2022 Youngkin executive order.

AI Working Committee

The IT Governance framework (formed 2022) houses the AI Working Committee as a standing committee, reporting to the IT Governance Advisory Committee. Kyle E. Johnson serves as AVP for IT Governance, Planning, and Strategy. As of early 2026 the committee had been formally established and charged by the IT Governance Executive Committee; the committee's page on the Division of IT governance site states that it "will address issues relating to artificial intelligence and the university's mission and strategic objectives," while ai.vt.edu still said "While the AI Working Committee is being established, the university community should refer to the published Responsible and Ethical AI Framework for guidance." The governance page was rewritten April 30, 2026: the committee now "provides advisory stewardship over shared practices, policies, and resources that enable responsible AI adoption," and says the committee "will establish domain-focused subgroups" (AI for Teaching & Learning; AI for Research; AI for Operations); "Day-to-day AI implementation decisions remain with campus operational leaders," and the committee "advises executive leadership on high-risk AI implementations." An August 10, 2026 DoIT flyer states the committee was "Formed in late 2025" and calls it "the university governance body for AI-related decisions." Its first documented act: the Provost's weekly update for March 30 to April 3, 2026 states that the Google Gemini app, NotebookLM, and Google AI Pro became available "After review by the Division of Information Technology's IT Security Office and the AI working committee of IT Governance." The governance page

links the committee's page on the Division of IT governance site (modified August 7, 2026), which lists co-chairs Patrick Tomlin (University Libraries) and Jeremy Sippel (Graduate School) and sixteen members, Alberto Cano among them (roster in Part I, Section I.B). Full treatment in Part I, Section I.B, including the separate AI Futures Working Group.

An FY2025 organizational restructure (effective July 1, 2025) introduced a new structure and operating model.

17.2 People

Sharon P. Pitt — VP for IT and CIO. Started February 1, 2024. VT alumna (B.S. Economics, M.Arch). Previously CIO of Brown University. EDUCAUSE board chair. In the FY2025 annual report, she outlined three foundational shifts: true shared governance for IT, AI innovation, and organizational restructuring. Member of the AI Futures Working Group (appointed spring 2026; roster published August 20, 2026). On HokieAI (August 23, 2026): "Our implementation team and steering committee have paid close attention to data protection, system governance, reliability, responsible stewardship of resources, and most importantly, the needs of users. We will continue to build on this foundation, evaluating and adopting new capabilities thoughtfully with input from the VT community."

Alberto Cano — AVP for Advanced Research Computing. Led the AI-as-a-Service launch. Key institutional AI voice on research infrastructure. On the approach: "While AI has the potential to significantly accelerate research, enhance teaching and learning, or even streamline business processes, users often face real barriers when trying to integrate it into their work. ARC's containerized LLM solutions address this by providing a secure, isolated environment where no data is shared externally or used to further train the model." Co-PI on the \$20 million NSF Programmable Cloud Laboratory Node (August 2026). On the Owl expansion: "The expansion gives Virginia Tech additional flexibility to support a broad range of research, from large-scale simulations to artificial intelligence training and inference, while continuing to manage university resources responsibly."

David Raymond — Associate Vice President and Chief Information Security Officer (title per the DoIT leadership page, August 2026; previously AVP for Security and Identity). AI Working Group co-chair. Serves on the Research Technology Committee within IT governance.

DoIT leadership page (August 18, 2026): **Steve Lee** — Assistant Vice President for Network Infrastructure & Services (previously Executive

Director). **Ryan Wellar** — Assistant Vice President for IT User Experience & Engagement (previously Executive Director). **Terri Pecora** — Interim Associate Vice President for Enterprise Solutions and Enabling Technologies; Dwane M. Sterling, AVP for that portfolio through at least early 2026, is not listed. Kenneth T. McCrery, Chief of Staff through at least early 2026, is not on the leadership page; no departure notice was found. **Carl Harris** — Chief Technology Architect; on HokieAI: "access to leading foundation and frontier AI models at Virginia Tech shouldn't depend on a student's ability to pay or a department's willingness to absorb the cost — and it shouldn't come at the expense of security or compliance." **Chris Bateson** — systems administrator and IT manager; technical lead for the HokieAI project: "Virginia Tech has a robust selection of AI offerings that include tools from Google and Microsoft, custom LLMs from Advanced Research Computing, and now, HokieAI."

ARC leadership (July 2026 Facilities, Equipment, and Resources document): Alberto Cano (AVP), Matthew Brown (Director of Research Computing Services), Jeremy Johnson (Director of Operations), Ben Sandbrook (Director of Research Software Engineering), Mark Gardner (Network Research Manager); five computational scientists and three graduate research assistants provide user support. Systems engineers Miles Gentry, Jessie Bowman, and Jeremy Johnson are pictured with the expanded Owl cluster; Chris Kuhlman is the workshop-series contact.

17.3 Teaching & Curriculum

ARC provides training workshops via the TLOS Professional Development Network. ARC staff deliver guest lectures and classroom presentations for undergraduate and graduate courses in computer science, mathematics, and other departments. Video tutorials are available on the ARC documentation site. Bimonthly user meetings are open to all VT students and faculty. The fall 2026 research computing workshop series runs September 2 to October 23, 2026, twice weekly on Zoom, with AI-relevant sessions "GPU Essentials on ARC Clusters" (September 23), "LLM Resources on ARC Systems" (September 30), "LLM Use on ARC Systems" (October 2), and "Containers on ARC Clusters" (October 21). The PDN course "AI at Virginia Tech: A Primer for HokieAI" (self-paced, one credit, free; instructor listed as Paige Marie Ghra) is recommended for all HokieAI users and, with "HokieAI API Access Training," required for API access. HokieAI drop-in office hours run Thursdays, 2:00 to 2:30 p.m., from August 20, 2026.

4Help knowledge base articles cover Microsoft Copilot access, ChatGPT Edu usage, and AI tool best practices.

17.4 Tools & Technology

ARC Compute Infrastructure

The July 2026 Facilities, Equipment, and Resources document gives unrestricted totals of 632 nodes, 64,736 CPU cores, 514 GPUs, and 360 TB of memory (September 2025 document: 570 nodes, 58,784 cores, 497 GPUs, 272 TB). Clusters:

TinkerCliffs — Flagship cluster. ARC documentation: 332 nodes, 41,600 CPU cores, 130 TB RAM, 112 NVIDIA A100 GPUs (14 nodes) and 48 NVIDIA H200 GPUs (6 nodes, eight per node). Located in the Steger Hall HPC Data Center, Blacksburg. H200 nodes installed late May 2025.

Falcon — GPU cluster, online December 2024. ARC documentation: 106 nodes, 4,768 CPU cores, 43 TB RAM, 298 GPUs (128 NVIDIA A30 with 24 GB each; 80 NVIDIA L40S with 48 GB each; 72 V100; 18 T4). Next-generation InfiniBand interconnect.

OWL — CPU cluster, online August 2024; VT's first direct-to-node water-cooled cluster; 768 GB memory per node; 40% higher sustained clock rate due to cooling. Expanded summer 2026 (VT News, August 26, 2026): "The expansion adds 76 CPU nodes each with 96 cores and 768 gigabytes of memory; eight large-memory nodes with three terabytes of memory each; and four GPU nodes equipped with eight NVIDIA B200 GPUs apiece. In total, the expansion brings the total size of the Owl cluster to 17,408 CPU cores, 174 terabytes of memory, and 32 NVIDIA B200 GPUs." ARC's own Owl documentation page gives 169 nodes, 16,256 cores, and 141 TB, and the FER lists 160 CPU nodes, 4 Milan nodes, 12 large-memory nodes, and 4 B200 nodes; the institutional sources disagree and both are recorded. The B200s provide "180 gigabytes of high-bandwidth memory" and "approximately eight terabytes per second of memory bandwidth" with FP4 support; all new nodes are liquid cooled. "The expansion was made possible through a \$5 million university investment in fiscal year 2026. Virginia Tech plans to continue supporting the growth of research computing with an additional \$6 million investment in fiscal year 2027." ARC users grew "approximately 30 percent year-over-year" and GPU utilization "grew by 62 percent in 2025." Early B200 user: Jianpeng Chen with Dawei Zhou (CS) on a DARPA-supported materials project. The August 2026 maintenance

window also moved clusters to Rocky 9.8 and Slurm 25.11.6 and added ollama and AlphaFold 3 modules.

Biomed cluster — NIST 800-171 compliant for biomedical research.

CUI cluster — CPU and GPU. Partnership between ARC and the Hume Center. For ITAR/export-controlled/CUI data and software.

AI-as-a-Service (LLMs)

Launched March 2025, expanded October 2025. Three access paths: llm.arc.vt.edu (web interface, VT login, no ARC account needed, three hosted LLMs with RAG, web search, vision, and image generation); llm-api.arc.vt.edu (OpenAI-compatible API endpoint, compatible with VS Code GitHub Copilot, Jupyter notebooks, data scripts); and LLM via Open OnDemand (dedicated instance with exclusive web and API access, any publicly available LLM model, requires ARC account). 40+ LLM models available. All data stays on-premises. No data sent externally. User data not used for model training. Data deleted after session. High-risk data permitted. ARC's AI-as-a-Service documentation now lists six access paths, adding vLLM and llama.cpp jobs under Slurm and API keys for coding agents and IDEs; the date of the change is not shown.

Centrally Managed AI Tools

From ai.vt.edu/tools (last updated September 23, 2026): HokieAI (active; all students, faculty, and staff; "Approved for all university data risk levels"; built on Cloudforce NebulaONE; OpenAI GPT-5.6 Luna, GPT-5.4 mini, GPT-5.4, GPT-5.5; metered monthly allocation; availability notice August 10, 2026). ARC LLM Gateway and ARC LLMs via Open OnDemand (active, high-risk approved). ChatGPT Edu ("Active Pilot Program (will conclude in Dec. 2026)," "Limited access (500 users)," moderate-risk). Microsoft Copilot Chat, free with M365 (active, all users, approved for high-risk data; listed at low risk in February 2026). Microsoft 365 Copilot Chat, licensed (department purchase, employees, high-risk). Google Gemini App and Gemini Notebook (active, all users, high-risk). Google AI Pro (department purchase, high-risk). A new platform-as-a-service section lists AWS, Google Cloud Platform (Vertex AI), and Microsoft Azure for "VT employees and their designees" at high risk. Full detail in Part I, Section IV. The August 10, 2026 "plainspoken guide to Virginia Tech's current and future AI tools" flyer lists the Google Gemini app, HokieAI, Copilot Chat, ARC LLM options, Google AI Pro, Microsoft 365 Copilot, NotebookLM, and ARC custom LLMs; ChatGPT Edu and Rolai do not appear on it.

AI-enabled tools within licensed platforms: Adobe Creative Cloud, Genio, Gradescope, iClicker, Grackle, PREP, Panopto, Zoom AI Companion. Panopto replaced Kaltura for fall 2026.

Procurement for unapproved tools follows the security review process. A Low-Risk Low-Cost Software path provides expedited purchasing.

Visualization

Visionarium Lab — web to headsets to CAVE environments. Nicholas Polys leads the visualization team. IEEE VR 2025 conference contributions in collaboration with CHCI.

17.5 Research & Scholarship

ARC directly supports AI/ML research workloads across all colleges. The Falcon early test user roster documents cross-disciplinary reach: Dawei Zhou's VLOG Lab (graph neural networks, LLM trustworthiness), Tuo Wang (LLM uncertainty quantification), Xinyue "Susan" Zeng (protein disorder simulations), Sina Mostafanejad (Chemistry/MolSSI molecular science). The CUI cluster partnership with the Hume Center supports classified and export-controlled research.

The ARC Facilities, Equipment, and Resources document (July 2026 edition; the September 2025 edition remains online) provides a standardized infrastructure description for grant proposals across all VT departments. ARC is a co-investigator on the \$20 million NSF Programmable Cloud Laboratory Node awarded August 4, 2026 (PI Rose Hu, ECE; Cano co-PI), which will pair "digital twin models, high-performance computing, a sharable data system" with the ICTAS nanofabrication facility to "transform these labor-intensive work cycles into AI-guided workflows" (Unit 4).

17.6 Events & Programming

ARC bimonthly user meetings (open to all). HPC workshop series (launched January 23, 2026, all skill levels, ongoing). ARC Open OnDemand demonstrations for interactive applications and access barrier reduction. Fall 2026 workshop series (see 17.3). HokieAI office hours from August 20, 2026. A February 2026 "Unlocking the Power of AI in Research" workshop (ORI and DoIT) preceded a September 18, 2026 edition listed on the Libraries' guide whose registration page no longer resolves. No FY2026 DoIT annual report had been posted as of August 25, 2026.

DoIT FY2025 Annual Report (published November 2025) featured AI innovation and HPC sections.

Gaps and Observations

DoIT/ARC is the infrastructure backbone of VT's AI ecosystem. The progression from Infer (2021) to Falcon (2024) to AI-as-a-Service (2025) represents a deliberate investment arc. The on-premises ARC services, through the CUI cluster, are the only AI resources this inventory records for export-controlled and CUI work; the September 2026 tools page approves several commercial tools for other high-risk data.

The AI Working Committee is now operational, with a documented first act (the March 2026 Google tools review), a published roster co-chaired from the Libraries and the Graduate School, and three planned subgroups, but no minutes or outputs beyond the tool approvals appear on the governance pages. HokieAI is the largest single AI decision DoIT has taken, and it was made through a steering committee whose membership is unpublished, on a vendor contract whose value is unpublished, with a metered allocation whose size is unpublished. The TLOS "Considering Generative AI" page is the only page reviewed that still says Copilot is the only tool licensed for everyone; it belongs to TLOS, DoIT's co-maintainer of ai.vt.edu. The gap between the committee's establishment and its visible output has narrowed; the gap between what DoIT deploys and what it discloses about how it decided has not.

Cross-References

- **TLOS (Unit 18):** Co-maintains ai.vt.edu. ARC delivers workshops through the TLOS Professional Development Network.
- **Hume Center / NSI (Unit 13/14):** CUI cluster partnership. Hume Center students use ARC resources.
- **Part I, Section I:** AI Working Group and Responsible and Ethical AI Framework.
- **Part I, Section IV:** Full tool ecosystem documented with risk classifications.

Sources

ai.vt.edu — VT's central AI portal, co-maintained by DoIT and TLOS.

<https://ai.vt.edu/>

ai.vt.edu tools page — centrally managed AI tool list with risk classifications and access details. Last updated September 23, 2026.

<https://ai.vt.edu/tools.html>

DoIT organizational structure — divisions, leadership, and reporting.

<https://it.vt.edu/administration/organization.html>

DoIT leadership page — CIO Pitt, AVPs, and executive directors.

<https://it.vt.edu/administration/leadership.html>

DoIT policies page — Policy 7010 and risk classification framework.

<https://it.vt.edu/resources/policies.html>

VT Risk Classifications document (PDF) — three-tier system for AI tool procurement.

https://it.vt.edu/content/dam/it_vt_edu/policies/Virginia-Tech-Risk-Classifications.pdf

ARC LLM Gateway documentation — web interface, API access, and Open OnDemand options.

https://docs.arc.vt.edu/ai/010_llm_arc_vt_edu.html

ARC AI documentation hub — AI-as-a-Service overview and usage guides.

https://docs.arc.vt.edu/zz_ai.html

ARC compute services page — cluster specifications, GPU counts, and node details.

<https://arc.vt.edu/services/compute.html>

ARC services overview — training, consulting, and infrastructure description.

<https://arc.vt.edu/services.html>

ARC news page — Falcon launch, H200 installation, and AI-as-a-Service updates.

<https://arc.vt.edu/about/news.html>

4Help knowledge base on AI tools — Microsoft Copilot and ChatGPT Edu usage guidance.

https://4help.vt.edu/sp?id=kb_article&sysparm_article=KB0015697

DoIT FY2025 Annual Report — AI innovation, HPC, and CIO's three foundational shifts.

<https://it.vt.edu/resources/annual-report/2025.html>

FY2025 Annual Report AI innovation section — Cano quote and AI-as-a-Service positioning.

<https://it.vt.edu/resources/annual-report/2025/featured-highlights/AI-innovation.html>

FY2025 Annual Report HPC section — cluster fleet, Falcon and OWL launches, user reach.

<https://it.vt.edu/resources/annual-report/2025/featured-highlights/high-performance-computing.html>

FY2025 Annual Report CIO message — Pitt's three foundational shifts statement.

<https://it.vt.edu/resources/annual-report/2025/intro/cio.html>

ARC Facilities, Equipment, and Resources document (September 2025, PDF) — standardized infrastructure description for grant proposals.

<https://www.docs.arc.vt.edu/mou/arc-fer-2025-long-v02.pdf>

ARC system changes, August 2026 maintenance.

https://docs.arc.vt.edu/resources/systemchanges/2026_08.html

DoIT annual report index (FY2025 latest as of August 2026).

<https://it.vt.edu/resources/annual-report.html>

ARC documentation: TinkerCliffs (332 nodes, 41,600 cores, 130 TB RAM, 112 A100 and 48 H200 GPUs).

<https://docs.arc.vt.edu/resources/compute/00tinkercliffs.html>

ARC documentation: Falcon (106 nodes, 4,768 cores, 43 TB RAM, 298 GPUs).

<https://docs.arc.vt.edu/resources/compute/02falcon.html>

Unit 18. TLOS (Technology-enhanced Learning and Online Strategies)

Key Signals: TLOS is Virginia Tech's central hub for AI-in-teaching guidance and the de facto first point of contact for faculty AI questions. It co-maintains ai.vt.edu, manages the ChatGPT Edu and Rolai pilots, produced the AI Essentials self-paced learning modules, organized the Summer 2024 AI Faculty Cohort, and states the institutional position on AI detection tools: the Office of Undergraduate Academic Integrity does not accept AI detection reports as evidence. The August 2026 AI Teaching Symposium ("AI On / AI Off") is the first VT event dedicated entirely to AI in teaching identified in this inventory.

TLOS reports to the Office of the Executive Vice President and Provost (moved from DoIT) and co-maintains ai.vt.edu with DoIT.

18.1 Governance & Policy

Dale Pike, Associate Vice Provost for Technology-Enhanced Learning, co-chaired the AI Working Group. David Duckett represents TLOS on the university AI Working Committee (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). TLOS produces and manages the "Considering Generative AI at Virginia Tech" guidance page (updated August 17, 2026), the GenAI community email list for faculty, the ChatGPT Edu pilot, and the Rolai pilot.

TLOS guidance identifies Microsoft Copilot as the only universally approved GenAI tool and recommends caution on AI detection tools. TLOS explicitly states that the Office of Undergraduate Academic Integrity does not accept AI detection reports as evidence. The guidance directs faculty to set course-level AI expectations and to ai.vt.edu/tools for current approved platforms. The "Considering Generative AI" page was updated August 17, 2026, one week after DoIT's HokieAI availability notice, and still states: "At Virginia Tech, the only generative AI tool currently licensed and approved for use by all faculty, staff, and students is Microsoft Copilot, which is powered by OpenAI's large language models." It does not mention HokieAI, which ai.vt.edu and the President's welcome message describe as available to everyone (the Libraries' AI guide does not mention HokieAI either). The detection language is unchanged. Dale Pike sits on the university AI Futures Working Group (appointed spring 2026; roster published August 20, 2026). The August 23, 2026 HokieAI announcement assigns TLOS a support role: it

"can support Virginia Tech instructional faculty as they develop educational assets using HokieAI or other university-approved AI tools."

TLOS and Civil Rights Compliance and Prevention Education (CRCPE) are jointly leading the ADA Title II digital accessibility compliance initiative, with a mandatory conformance deadline of April 24, 2026. While not AI-specific, this positions TLOS in an expanding technology compliance role.

18.2 People

Dale D. Pike — Associate Vice Provost for Technology-Enhanced Learning. First executive director of TLOS (2014). AI Working Group co-chair. Co-authored the Graduate School GenAI statement with Dean Surprenant. Led the ChatGPT Edu pilot. A central institutional AI voice. Member of the AI Futures Working Group (appointed spring 2026; vision statement August 20, 2026).

Quinn Warnick — Assistant Vice Provost for Technology-Enhanced Learning. Co-directed the "Teaching in the Age of Generative AI" faculty cohort (Summer 2024). Co-facilitated with Andrew Katz (Engineering Education, CoE).

Aaron Bond — Senior Director of Learning Services. Cohort facilitator.

Daron Williams — Director of Instructional Design and Development. Cohort facilitator.

18.3 Teaching & Curriculum

Teaching in the Age of Generative AI Faculty Cohort (Summer 2024)

Formed May 2024 in partnership with the Provost's Office. Funded by the 4-VA initiative through an AI-centered course enhancement grant. Summer stipend for faculty to design or redesign assignments, assessments, and classroom activities leveraging GenAI responsibly.

Five working groups with named faculty from multiple colleges: Comparison of Generative AI Tools (AAD, CoE), Getting Started Guide for Faculty (CLAHS, COS/CNRE, CALS/CoE), Syllabus Statements about Generative AI (Pamplin, COS), Sample Assignments (COS, CLAHS), Engaging University Leadership (AAD).

Output: Website aiteaching.vt.domains with resources including a getting started guide, syllabus statements, sample assignments, prompt engineering guides, and an AI tools comparison/evaluation.

AI Essentials for Teaching and Learning Learning Journey

Self-paced modules: Module 0 (Intro to Generative AI), Module 1 (Foundational AI Literacy for Educators), Module 2 (Intro to AI Prompting for Faculty), Module 3 (Integrating AI into Teaching Workflows), Module 4 (AI-Conscious Course and Assignment Design). TLOS also provides "AI in 5 Minutes" course integration activities.

Pilot Programs

ChatGPT Edu Pilot — Launched spring 2025 for up to 500 full-time employees and graduate assistants. \$240 value per participant. The pilot page (updated June 16, 2026) states that the pilot "was extended through the 2026 calendar year" and "will end on December 31, 2026," and that access "may be removed" after 60 or more days of inactivity; ai.vt.edu lists the pilot as concluding December 2026. Mandatory training and responsible usage compliance. Moderate-risk data approved. No public statement addresses what replaces it for its users.

Rolai Pilot — GenAI platform tailored for higher education. Integrated with Canvas. Unlimited access to multiple leading GenAI models. Approved for student use. 20 instructors total (10 fall 2025, 10 spring 2026) with monthly professional development sessions. The pilot ended June 2026; the page still says there is "no promise of continued access to the platform after the pilot ends in June 2026," no findings or continuation decision has been published, and Rolai appears on neither the September 2026 tools list nor the August 2026 flyer.

18.4 Tools & Technology

TLOS manages or recommends: Microsoft Copilot (enterprise data protection, recommended for classroom use), ChatGPT Edu (pilot, concluding December 2026), and AI-enabled teaching tools including Genio, Gradescope, iClicker, Grackle, PREP, Panopto, and Zoom AI Companion. Panopto replaced Kaltura for fall 2026; the "TLOS Top 10 for Fall 2026" page (August 13, 2026) is devoted to the migration. Canvas LMS LTI integration supports AI tool deployment. The University Libraries Prompt Library is linked from TLOS resources. TLOS also runs the PDN course "AI at Virginia Tech: A Primer for HokieAI" (instructor Paige Marie Ghra), which DoIT recommends for all HokieAI users.

18.5 Research & Scholarship

No standalone TLOS research grants publicly documented. TLOS personnel contribute to faculty cohort scholarship and the aiteaching.vt.domains resource site. Andrew Katz (Engineering Education), who co-facilitated the cohort, holds an NSF CAREER Award studying how GenAI impacts instructional decisions and assessment in engineering education — a CoE grant, not a TLOS grant.

18.6 Events & Programming

2026 AI Teaching Symposium

Held August 13, 2026, noon to 9 p.m., at the Data and Decision Sciences Building, Blacksburg. Theme: "AI On / AI Off: The Balance of Human-Centered AI." Call for proposals issued April 2026 (registration April 1 to August 5). Keynote: David Wiley, Academic Affairs Fellow for AI in Education, Marshall University. Formats: lightning talks (8 to 10 minutes), tech demos (20 minutes), workshops (45 minutes), and panels (45 minutes). The framing explicitly acknowledges the spectrum: "Some faculty are 'AI on' — fully embracing AI tools in teaching and learning. Others are 'AI off' — intentionally limiting AI use to protect specific learning outcomes." Organized by TLOS with support from CETL, University Libraries, and Undergraduate Academic Affairs. No public recap, attendance figure, or recordings had been posted as of the evidence snapshot date; the TLOS events page was last updated April 27, 2026.

Other Programming

Summer Institute 2025 — annual conference co-hosted by CETL, TLOS, and multiple provost offices with AI sessions. Summer Institute 2026 — AI grantee cohort gathering May 22, 2026. Universal Design for Learning Day, April 10, 2026 (with CETL and Services for Students with Disabilities; Provost's weekly update, March 30 to April 3, 2026): "From Principles to Practice: Teaching Innovation with UDL and Artificial Intelligence," North End Center, in-person attendance limited to the first 70 registrants, plus virtual. TLOS Professional Development Showcase, April 21, 2026, Center for the Arts, with a "Teaching with AI" track of more than 30 named faculty presenters. GenAI community email list. No fall 2026 TLOS AI event had been posted as of the evidence snapshot date.

Gaps and Observations

TLOS is the operational center of VT's teaching-side AI response. Pike's dual role — AI Working Group co-chair and AVP for Technology-Enhanced

Learning — gives TLOS outsized influence on how the university's AI posture is communicated and implemented. The AI detection position (no reports accepted as evidence) is the most consequential policy choice TLOS has made, and it applies to Honor Code cases in every college. In 2026 that position has an exposed seam: the TLOS guidance page and the university's tool posture no longer describe the same thing. TLOS updated its page in August 2026 and left Copilot as the only tool licensed for all, while DoIT and the President were announcing HokieAI to everyone. Pike sits on both the body that produced the framework and the president's vision group; the page he owns has not caught up with the platform his division co-announced.

The August 2026 AI Teaching Symposium's framing — explicitly legitimizing the "AI Off" position alongside "AI On" — is a notable institutional signal. It acknowledges that not all faculty want to integrate AI and that this is an acceptable pedagogical choice.

Cross-References

- **DoIT / CIO (Unit 17):** Co-maintains ai.vt.edu. ARC delivers workshops through TLOS Professional Development Network.
- **Graduate School (Unit 12):** Pike co-authored the GenAI statement with Surprenant.
- **Libraries (Unit 11):** TLOS links to Libraries AI guidance and prompt library.
- **CETL (Unit 19):** Co-hosts Summer Institute. Co-organizes AI Teaching Symposium.
- **CNRE (Unit 6):** Kim/Pike GenAI perception study directly informed TLOS policy timeline.
- **Part I, Sections I-III:** TLOS guidance, AI Working Group, and faculty support infrastructure.

Sources

TLOS Generative AI guidance page — "Considering Generative AI at Virginia Tech." Updated August 17, 2026.

<https://tlos.vt.edu/resources/generative-ai.html>

TLOS about page — organizational structure and reporting.

<https://tlos.vt.edu/about.html>

TLOS Professional Development Network — workshop offerings including ARC training.

<https://tlos.vt.edu/learn/pdn.html>

ChatGPT Edu pilot page — enrollment details, risk classification, and feedback requirements.

<https://tlos.vt.edu/training-tools/chatgpt-edu-pilot.html>

Rolai pilot page — Canvas integration, instructor selection criteria, and timeline.

<https://tlos.vt.edu/training-tools/rolai-test.html>

Summer 2024 AI Faculty Cohort site — working groups, named participants, and resource outputs.

<https://aiteaching.vt.domains/about-this-site/>

Teaching WAC with AI (Gardner) — 250+ curated resources referenced by TLOS.

<https://teachingwacwithai.tracigardner.com/>

VT Notice on 2026 AI Teaching Symposium — theme, call for proposals, and organizational support.

<https://news.vt.edu/notices/2026/04/provost-tlos-ai-symposium.html>

TLOS events page (modified April 27, 2026; symposium call).

<https://tlos.vt.edu/about/events.html>

Unit 19. Center for Excellence in Teaching and Learning (CETL)

Key Signals: CETL provides the pedagogical framework for VT's AI-in-teaching response, complementing TLOS's technology layer. It co-administers the AI Undergraduate Curriculum Development Grants, runs AI-specific workshops that explicitly reject reactive approaches ("How do I prevent ChatGPT on this assignment?"), and hosts the Conference on Higher Education Pedagogy (~500 participants). CETL Director Catherine Amelink served on the AI Working Group.

CETL is a unit of the Office of the Executive Vice Provost. It provides pedagogical support, instructional consultation, and faculty development, and partners with TLOS and the Office of Undergraduate Curriculum on AI-related programming. Its functions are distinct from TLOS: CETL handles pedagogy and faculty development; TLOS handles technology-enhanced learning and AI tools.

19.1 Governance & Policy

Stephen Biscotte, Assistant Vice Provost for Undergraduate Curriculum, and Tiffany Willis, Director of Undergraduate Academic Integrity, sit on the university AI Working Committee (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). Catherine Amelink serves as both Associate Vice Provost in the Office of the Executive Vice Provost and Director of CETL. She was the "Excellence in Teaching and Learning representative" on the AI Working Group.

CETL co-administers the AI Undergraduate Curriculum Development Grants with TLOS and the Office of Undergraduate Curriculum. CETL provides the pedagogical framework; TLOS provides the technology layer.

19.2 People

Catherine Amelink — Director of CETL and Associate Vice Provost. AI Working Group member. Co-editor of *Global Insights into Transdisciplinary Higher Education Initiatives* (VT Publishing, 2025). Facilitates the Destination Area initiative.

MichaelENZ — Director of Professional Development, CETL.

Tiffany Shoop — Director of Special Programs, CETL.

Hannah Harris — Associate Director for Professional Development, CETL. The staff page (December 2025) also lists Ivonne Wallace Fuentes (Assistant Director of Professional Development) and Abbie Gill (Project Manager).

Stephen Biscotte — Contact for the AI Undergraduate Curriculum Development Grants (reported but direct CETL affiliation URL not confirmed).

19.3 Teaching & Curriculum

AI-Specific Workshops (Spring 2026)

"How do we teach well when AI is everywhere?" — Workshop focused on pedagogical agency in the AI landscape. The framing explicitly rejects reactive approaches: "We'll move beyond reactive fixes ('How do I prevent ChatGPT on this assignment?') to intentional pedagogical design." Offered multiple times (February 9, March 11, 2026). Explores when AI tools support learning objectives versus undermine them.

"Current State of AI Technologies" — Session reviewing latest AI trends, tools, and market shifts with implications for teaching practice. Offered as a standalone workshop and as a CIRTL-approved session for graduate students and postdocs.

AI Undergraduate Curriculum Development Grants (Co-Administered)

Joint program with the Office of Undergraduate Curriculum and TLOS. Round one: up to \$10,000 per proposal (\$5,000 maximum per individual faculty member), December 2025 deadline, kickoff February 2026, cohort meetings March and April, Summer Institute gathering May 22, 2026, optional showcase fall 2026, target offerings AY 2026/27 or 2027/28. The recipients page lists 29 funded proposals by lead college: College of Engineering 5 (including the university-wide AI minor launched fall 2026), CLAHS 6, College of Science 6, Architecture, Arts, and Design 5, CALS 3, CNRE 2, Honors College 1, Pamplin 1. Round two, retitled "Grants to Support AI Awareness, Resilience, and Literacy Across the Undergraduate Curriculum" (page dated September 21, 2026): "up to a maximum of \$5,000 per proposal" with "a maximum of \$2,500 going to each individual faculty member"; deadline December 4, 2026; awardees by January 15, 2027; kickoff early February 2027; Summer Institute May 21, 2027; report due July 1, 2027; target offerings AY 2027/28 or 2028/29; scope "AI-aware, AI-resilient, or AI-centric." AI software subscriptions, GTA costs, and buyouts are excluded.

Other Programs

Course Design Clinic (includes generative AI in course design), Principles of Effective Teaching Certificate, Faculty Innovation Groups (facilitated with EVP Provost office and TLOS), CIRTl at Virginia Tech Associate Teaching Program.

19.4 Tools & Technology

Not publicly documented as unit-specific. CETL directs faculty to TLOS and DoIT for AI tools.

19.5 Research & Scholarship

CETL supports SoTL research through grants, workshops, and an annual writing retreat. No AI-specific CETL research was publicly documented, though Amelink's work on transdisciplinary initiatives intersects with AI education themes.

19.6 Events & Programming

Conference on Higher Education Pedagogy — annual conference, approximately 500 participants, national reach. Summer Institute 2025 and 2026 — co-hosted with TLOS and multiple provost offices; the 2026 institute included the AI grantee cohort gathering. Spring 2026 Workshop Series — AI-specific sessions; the fall 2026 list had not been posted as of June 8, 2026 or the evidence snapshot date. Universal Design for Learning Day (April 10, 2026, with TLOS and Services for Students with Disabilities; Provost's weekly update, March 30 to April 3, 2026) took the theme "From Principles to Practice: Teaching Innovation with UDL and Artificial Intelligence." Welcome Back Symposium (August 21, 2026, "Practical Strategies to Enhance Student Engagement and Learning") included "Why Can't Chat GPT Write my Essay?" (Katherine Hall, Advanced Instructor, English) and the closing keynote "If AI Can Do the Assignment, Why Are We Still Assigning It?" (Nicole Pitterson, Associate Professor, Engineering Education). Teaching and Learning Hub — joint resource with TLOS; the hub's AI resources page was last modified February 23, 2026 and does not reference HokieAI. CETL co-organized the August 13, 2026 AI Teaching Symposium with TLOS, Libraries, and UAA.

Gaps and Observations

CETL occupies the pedagogical design space that TLOS's technology focus leaves open. Its spring 2026 workshops explicitly frame AI as a pedagogical

design question rather than a policing question — the strongest articulation of this stance at VT. The AI Curriculum Development Grants are the most consequential joint program CETL administers: they fund the courses that will define VT's AI-in-teaching landscape for AY 2026/27 and beyond. The grants program's second round halves the money per proposal. The recipients page shows which colleges got the first-round money.

Cross-References

- **TLOS (Unit 18):** Co-maintains Teaching and Learning Hub. Co-administers AI Curriculum Development Grants. Co-hosts Summer Institute.
- **Part I, Section III.A:** AI Undergraduate Curriculum Development Grants detailed.

Sources

CETL about page — organizational structure and CETL/TLOS distinction.

<https://teaching.vt.edu/about-us.html>

CETL workshops page — spring 2026 AI-specific sessions with descriptions.

<https://teaching.vt.edu/programs/workshops.html>

CETL programs page — full program listing.

<https://teaching.vt.edu/programs.html>

Teaching and Learning Hub — joint CETL/TLOS resource.

<https://teaching.vt.edu/hub.html>

AI Undergraduate Curriculum Development Grants page — grant structure, timeline, and deliverables.

<https://www.undergraduate.provost.vt.edu/ouc/ai-undergraduate-curriculum-development-grants.html>

CIRTL at Virginia Tech — graduate teaching program with AI session.

<https://cirtl.vt.edu/teaching-program.html>

Unit 20. Office of Research and Innovation (ORI) — SIRC, OESRC, VTIP, PRDP

Key Signals: SIRC maintains the most substantial research-specific AI governance output at VT. Its "Considerations for the Responsible and Ethical Use of AI," revised May 19, 2026, translates the AI Framework into stage-specific considerations across eight stages of the research lifecycle, links a declaration generator for disclosing AI use, and is listed in the SIRC index under SIRC-0031, the number the January 2024 guidance also carries; the 2024 document remains available as a PDF but no longer appears in the index. A September 24, 2026 announcement set a leadership change for September 28, 2026: Daniel Sui moves to a special assistant role and Kevin Pitts becomes interim vice president for research and innovation. No standalone AI-specific guidance appears on the OESRC, VTIP, or PRDP pages reviewed; PRDP's AI role runs through the SIRC documents.

The Office of Research and Innovation was led from 2020 to September 2026 by Senior Vice President Daniel Sui, reporting to the EVP and Provost and sitting on the president's cabinet. On September 24, 2026, the university announced that Sui "is transitioning to a new role with the university and will serve as special assistant to Virginia Tech President Tim Sands" and will return to the CNRE faculty "with a focus on GEO AI, world models, and geospatial intelligence"; Kevin Pitts, dean of the College of Science, "will assume the role of interim vice president for research and innovation on Sept. 28, 2026." The Sui profile states that ORI "encompasses over 500 employees across research administration." The transition announcement gives extramurally sponsored research expenditures as rising "from \$325 million in 2020 to a record \$493.9 million in 2025".

20.1 Governance & Policy

SIRC AI Guidance Documents

Julie Cook (Research and Innovation; PRDP director) sits on the university AI Working Committee (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). SIRC, under Lisa Lee's direction, has published two AI guidance documents; as of September 2026 the SIRC index lists only the later one.

Document 1: "Guidance: Using Artificial Intelligence During Research Activities" (January 2024; originally SIRC-0031).

Established responsibilities across five numbered roles: principal

investigators (responsible for understanding AI tools and compliance), research team members, the IT Security Office, university departments, and SIRC (covering its research integrity program, PRDP, and the Human Research Protection Program). Key provisions: only low-risk data may be shared with generative AI tools absent vendor agreements; medium and high-risk data requires contractual protections; AI tools cannot be responsible or accountable; authors who rely on AI-generated material without confirming its accuracy "will open themselves up to findings of academic and research misconduct, should fabrication, falsification, or plagiarism be contained within those AI materials" (the only policy the PDF cites is Policy 13015). Status as of September 2026: the HTML address now serves the Considerations page; the PDF (effective January 1, 2024, numbered SIRC-0031 on its face) remains available at its original address; and the SIRC forms and guidance index (modified March 12, 2026) lists SIRC-0031 as the Considerations document. Whether the 2024 guidance was withdrawn or absorbed is not stated on any page reviewed.

Document 2: "Considerations for the Responsible and Ethical Use of AI" (SIRC-0031; drafted November 25, 2025; last revised May 19, 2026). Translates the AI Framework and the Generative AI Delegation Taxonomy (GAIDeT) into stage-specific considerations across eight stages of the research lifecycle: conceptualization, literature review, methodology, software development, data management, writing, ethical oversight, and (added in the May 2026 revision) "Publication Support: Responsible Use of AI in Research Dissemination and Communication." A separate caution addresses peer and proposal review. For each stage, guidance spans all seven VT AI principles in a matrix format with reflection prompts and practical tips. Key provisions: AI tools must not be used to decide which ethical reviews are required; AI-assisted methods must be reproducible, explainable, and aligned with disciplinary standards; researchers should maintain verification logs. The revision links a "GAIDeT Declaration Generator: An open-source web tool for documenting and disclosing Generative AI use throughout the research lifecycle" and adds an "Examples of Discipline Specific Guidance" section (APA, ACM, AMA, HFES, IABC, UNESCO). Feedback goes to PRDP (prdp@vt.edu). The document does not mention HokieAI; the August 2026 HokieAI announcement says research faculty may use the platform "in consultation with" SIRC in developing research-specific guidelines and standards.

OESRC — Export Controls

John Talerico III serves as Assistant Vice President and Chief Research Security Officer (title per the August 5, 2026 ORI organizational chart, which also lists Mike Kendrick as Associate Director, Export Control and Sanctions). VT won the 2023 Jack Donnelly Award for Excellence in Counterintelligence. The AI tools page at ai.vt.edu directs researchers to consult OESRC regarding storage and analysis of high-risk data, and as of September 2026 states that export-controlled and CUI data are not authorized for use with any AI tool. Policy 13045 governs activities involving controlled technology, including AI tools applied to controlled data. OESRC has not published standalone AI-specific guidance.

VTIP — Intellectual Property

VTIP is a not-for-profit affiliated corporation. President: Brandy Salmon. Policy 13000 (Intellectual Property) governs all IP but contains no AI-specific provisions. The IP disclosure form does not include AI-specific fields. The VT AI Principles state: "We will closely monitor and consider the implications and impact of the intersection of AI and intellectual property." No VT-specific policy addressing AI-generated inventions or AI co-authorship of patent applications has been publicly documented.

PRDP — Privacy and Research Data Protection

Director: Julie Cook. PRDP provides guidance on confidentiality, privacy, and security protections when using AI tools to collect and process research data. PRDP's AI role is documented through contributions to the SIRC guidance documents. No standalone AI-specific guidance has been published separately.

20.2 People

Daniel Sui — Senior Vice President for Research and Innovation through September 2026 (appointed vice president and chief research and innovation officer in fall 2020); special assistant to the president from September 28, 2026 per the September 24 announcement, returning to the CNRE faculty with a focus on GEO AI, world models, and geospatial intelligence. Internationally renowned geographer/GIScientist. Identified "Harnessing Artificial Intelligence for Intelligence Augmentation" as a Research Frontier. VASEM member. Published on smart technologies led by AI, ML, and data science. The transition announcement credits him with the four Research Frontiers, the NSI and the IAC, the SURATech Jefferson Lab venture, and central large-proposal support that produced awards including "AI-enabled semiconductor facilities."

Kevin Pitts — Interim Vice President for Research and Innovation from September 28, 2026 (per the September 24 announcement); Dean of the College of Science (Unit 2).

Wei Zhou — Associate Professor, ECE; "special advisor to the senior vice president for research and innovation for AI-guided semiconductor manufacturing and nanotechnology" (August 2026); co-PI on the \$20 million NSF Programmable Cloud Laboratory Node. The first ORI-adjacent advisory title with AI in it identified in this inventory.

Lisa M. Lee — Senior Associate VP and Director of SIRC. Prior to VT (2018): inaugural chief of bioethics at Walter Reed Army Institute of Research; executive director of President Obama's Presidential Bioethics Commission. PI on the NSF Innovative Research and Ethical Impact institutional transformation grant.

Iris Jenkins — Director of Research Integrity and Research Integrity Officer. Appointed August 2024. PhD neuroscience (UMass Amherst).

John Talerico III — Assistant Vice President and Chief Research Security Officer (ORI org chart, August 2026). Co-PI on NSF AI research security grant. The org chart also lists Barbara DeCausey (Senior Director, Integrity and Human Research) and Cristen Jandreau (Director, Research Conflict of Interest) under SIRC.

Brandy Salmon — VP for Innovation and Partnerships; President of VTIP. Oversees LINK, LICENSE, and LAUNCH centers.

Randy Heflin — Senior Associate VP, Research and Innovation Administration. ARC reports to ORI through Heflin (dotted line).

Qin Zhu — Associate Professor, Engineering Education (CoE). Director of the Laboratory and Network for the Cultural Studies of Engineering and Technology. PI on NSF AI research security grant (\$300K). Published on teaching AI ethics to graduate students. Referenced the VASEM "State of AI in the Commonwealth Report 2026."

Rockwell "Rocky" Clancy — Research Scientist, Engineering Education. Co-PI on NSF AI research security grant and NSF ethics institutional transformation grant.

20.3 Teaching & Curriculum

ORI does not operate degree programs. Research ethics education is delivered through SIRC infrastructure. The first cohort of 34 Innovative Research and Ethical Impact Fellows launched Fall 2025, spanning multiple

colleges. While not AI-specific, this fellowship creates institutional scaffolding for AI-specific research ethics content.

Qin Zhu has published on teaching AI ethics to graduate students. His NSF-funded AI ethics education typology project (with Ole Miss and Texas A&M) creates a baseline typology of AI ethics education across U.S. institutions.

20.4 Tools & Technology

ORI does not directly deploy AI tools. The SIRC guidance documents establish the framework for when and how AI tools may be used with research data across risk levels.

20.5 Research & Scholarship

NSF Grants

AI Research Security (\$300,000 NSF, January 2026). PI: Qin Zhu. Team: Rockwell Clancy (research scientist, Engineering Education), Lisa M. Lee, John Talerico (the release names them without designating co-PIs). Builds evidence-based, scenario-based tools for AI research security across the research lifecycle. Deliverable: digital toolkit for universities, funding agencies, and industry partners.

AI Ethics Education Typology (~\$400,000 NSF, multi-institutional, October 2024). PI: Deborah Mower (Ole Miss). VT collaborator: Qin Zhu. Creates a baseline typology of AI ethics education across U.S. institutions.

Innovative Research and Ethical Impact (NSF Institutional Transformation, 2023). PI: Lisa Lee. Co-PIs: Rocky Clancy, Kory Trott. 5-year project establishing peer-to-peer model to transform cultures of responsible research.

Research Frontiers

ORI identifies "Harnessing Artificial Intelligence for Intelligence Augmentation" as a Research Frontier. The AI Frontier page aggregates AI research stories, lists faculty expertise, and positions VT's footprint spanning Blacksburg and the D.C. metro area. The largest AI-labeled award under ORI's large-proposal support in 2026 is the \$20 million NSF Programmable Cloud Laboratory Node (August 4, 2026; PI Rose Hu, ECE; Unit 4), which the Sui transition announcement lists among "AI-enabled semiconductor facilities."

20.6 Events & Programming

RISE Lecture Series

April 2025: Holden Thorp, editor-in-chief of the *Science* journals — "Maintaining and Communicating a Robust Scientific Record in an Age of AI and Social Media."

April 20, 2026: David B. Resnik, NIH NIEHS — "Responsible Use of Artificial Intelligence in Research and Scholarly Writing." 400+ peer-reviewed publications. In-person at Steger Hall Auditorium; also via Zoom.

NSPIRE Series

Notable Scholars Promoting Innovative Research and Ethics forums provide peer-to-peer ethics discussions and RCR training credit as part of the NSF-funded institutional transformation infrastructure. The RISE page (July 2026) lists the April 2026 Resnik lecture as past, with a recording, and no fall 2026 RISE lecture scheduled; "NSPIRE Oct. 13 Sessions" and "NSPIRE Oct. 30 Sessions" appear in the menu without detail.

Gaps and Observations

ORI's SIRC guidance is the most operationally detailed AI governance output at VT, more specific than the AI Framework itself on research-stage considerations. The January 2024 document established the roles; the 2025 Considerations document connected those roles to every stage of the research lifecycle, and the May 2026 revision added publication support and a disclosure tool. The 2024 document's removal from the SIRC index, with its number reused, leaves the role-based provisions (who is responsible for what) resting on a PDF that the office's own guidance listing no longer points to. The office enters the next snapshot under an interim vice president who is also a sitting dean.

The IP gap is the most consequential omission. Policy 13000 contains no AI-specific provisions. The IP disclosure form has no AI fields. The AI Principles acknowledge the issue ("We will closely monitor...") but monitoring is not policy. As AI-generated or AI-assisted outputs become more common in grant-funded research, the absence of an IP position creates ambiguity for faculty inventors.

Cross-References

- **DoIT/ARC (Unit 17):** ARC-hosted research LLMs report through ORI via Heflin. Risk classification standards enforced by DoIT govern SIRC's data-tier framework.

- **TLOS (Unit 18):** TLOS guidance links to SIRC research guidance. RISE Lecture (April 20, 2026) cross-programmed with TLOS Showcase (April 21, 2026).
- **NSI/Hume Center (Unit 13/14):** Talerico (OESRC) is Co-PI on NSF AI research security grant with Zhu.
- **College of Engineering (Unit 4):** Zhu and Clancy hold primary appointments in Engineering Education.
- **Part I, Sections II, IV, VI:** SIRC guidance, data risk classification, and research compliance chain.

Sources

ORI organizational chart — reporting structure, direct reports to Sui.

<https://www.research.vt.edu/about/office-research-innovation-org-chart.html>

Daniel Sui profile — SVP background, research frontier identification, and VASEM membership.

<https://www.research.vt.edu/about/research-innovation-administration/daniel-sui.html>

SIRC AI Guidance Document 1 (SIRC-0031, January 2024) — six-role responsibility framework for AI in research.

<https://www.research.vt.edu/research-support/forms-guidance/sirc/guidance-using-artificial-intelligence-during-research-activities.html>

SIRC AI Guidance Document 1 (PDF) — full text.

https://www.research.vt.edu/content/dam/research_vt_edu/sirc/files/sirc-guidance-for-ai.pdf

VT Notice on research AI guidance — announcement of SIRC-0031.

<https://news.vt.edu/notices/research-artificial-intelligence-guidance-for-researchers.html>

SIRC AI Guidance Document 2 (drafted November 25, 2025; last revised May 19, 2026) — research lifecycle considerations and GAIDeT framework application.

<https://www.research.vt.edu/research-support/forms-guidance/sirc/considerations-responsible-ethical-use-ai.html>

VT News on NSF AI research security grant (January 2026) — \$300K, Zhu PI, scenario-based toolkit.

<https://news.vt.edu/articles/2026/01/eng-coe-enged-secure-ai-research-engineering-education.html>

Ole Miss AI ethics education study announcement (October 2024) — multi-institutional NSF grant with Zhu as VT collaborator.

<https://olemiss.edu/news/2024/10/ai-ethics-education-study/index.html>

NSF Innovative Research and Ethical Impact project page — Lee PI, 5-year institutional transformation.

<https://www.research.vt.edu/sirc/innovative-research-ethical-impact.html>

VT News on Ethical Impact Fellows launch (November 2025) — 34 fellows, multiple colleges.

<https://news.vt.edu/articles/2025/11/research-Innovative-Research-Ethical-Impact-Fellows.html>

Ethical Impact research team page — Lee, Clancy, and project personnel.

<https://www.research.vt.edu/sirc/innovative-research-ethical-impact/research-team.html>

RISE/NSPIRE lecture series page — past and upcoming events.

<https://www.research.vt.edu/sirc/ricp/rise.html>

Resnik RISE Lecture event page (April 2026) — speaker bio and topic.

<https://www.research.vt.edu/events/responsible-use-ai-research-scholarly-writing.html>

VT Notice on Resnik RISE Lecture — date, location, and Zoom availability.

<https://news.vt.edu/notices/research-rise-ai-research-writing.html>

OESRC about page — Talerico role, Donnelly Award, and export control mission.

<https://www.research.vt.edu/oesrc/about.html>

Policy 13045 — Export Control, Sanctions, and Research Security Compliance.

<https://policies.vt.edu/13045.pdf>

VT News on Donnelly Award (July 2024) — counterintelligence recognition.

<https://news.vt.edu/articles/2024/07/research-counterintelligenceaward.html>

VTIP home page — Salmon leadership and LINK/LICENSE/LAUNCH structure.

<https://link.vt.edu/vtip.html>

Policy 13000 — Intellectual Property (no AI-specific provisions).

<https://www.policies.vt.edu/13000.pdf>

PRDP home page — Cook directorship and privacy/data protection role.

<https://www.research.vt.edu/sirc/prdp/index.html>

Research Frontiers AI page — "Harnessing AI for Intelligence Augmentation" and faculty expertise.

<https://www.research.vt.edu/initiatives/research-frontiers/artificial-intelligence.html>

Iris Jenkins appointment (August 2024) — Research Integrity Officer background.

<https://news.vt.edu/articles/2024/08/research-iris-jenkins-director-research-integrity-consultation-program.html>

Qin Zhu faculty profile — Engineering Education appointment, NSF projects, and research areas.

<https://enge.vt.edu/People/researchfaculty/qinzhu.html>

Unit 21. Institute for Advanced Computing (IAC) and Alexandria Campus

Key Signals: Virginia Tech's Alexandria campus (opened January 2025) houses the new university-level Institute for Advanced Computing, with AI/ML as the first-listed of five research pillars. The Sanghani Center is headquartered on the fifth floor. Total investment from the Commonwealth, City of Alexandria, Boeing, Northrop Grumman, and other partners exceeds \$1 billion. At full buildout, the campus will graduate ~750 master's students and host 100+ doctoral and postdoctoral fellows annually. The OpenAI Leaders+ Discussion (March 2026) and VirginiaAI Summit (October 2025) position the campus as a national convening space for AI.

Virginia Tech's Alexandria campus (formerly the Innovation Campus) is an 11-story, 300,000-square-foot facility at Potomac Yard/National Landing, one Metro stop from Amazon's Arlington HQ2. In May 2025, the "Innovation Campus" branding was retired; the academic program became the Institute for Advanced Computing (IAC), and the physical location is now simply branded as Virginia Tech.

21.1 Governance & Policy

The IAC was established as a university-level thematic institute in May 2025. Then-Provost Clarke stated the institute is "built around core expertise and innovation in computing and structured to advance high-potential areas of application across a variety of disciplinary interests such as business, arts, and health sciences."

Kirk Cameron, Professor of Computer Science, was named interim director in 2025; by June 2026 the university styled him "managing director of the Institute for Advanced Computing," and the IAC team page (August 20, 2026) uses that title, while the institute's about page (last modified May 2025) still says interim director. The executive director search remains open: the Isaacson, Miller posting seeks an "inaugural Executive Director" reporting to the Vice President for the Greater Washington, D.C. Area, who will "secure new sources of philanthropic investments to reach its fundraising goal of \$250M." No campus-specific AI policy was identified. The campus operates under the university-wide AI framework. Naren Ramakrishnan sits on the university AI Futures Working Group; the August 20, 2026 VT News announcement lists him as AI and machine learning lead for the Institute for Advanced Computing. The IAC's relationship to the four

Investment Institutes and the AI Working Committee has not been publicly detailed.

21.2 People

Lance Collins — Vice President and Executive Director of Virginia Tech's Greater Washington, D.C., Area. Previously dean of engineering at Cornell.

Kirk Cameron — Managing Director, IAC; Professor of Computer Science; Boeing Endowed Professor (Board of Visitors, June 2026), a professorship "established with a generous gift from The Boeing Company to recognize a distinguished professor at the Institute for Advanced Computing."

Naren Ramakrishnan — University Distinguished Professor and Thomas L. Phillips Professor in the Department of Computer Science; IAC lead for AI/ML. Directs the Sanghani Center, headquartered on the fifth floor of Building One. Documented in Unit 4.

Walid Saad — Professor of ECE. Research on autonomous vehicle coordination uses quantum technology and AI. Moved to Building One in January 2025.

Kurt Luther — Associate Professor of CS; Associate Director for Research at CHCI. Directs the Crowd Intelligence Lab (crowdsourced human intelligence + AI for investigative applications). CCI Southwest 2026 cybersecurity grant for online safety of military families.

Lingjia Liu — Professor, ECE. CCI Southwest 2026 grant using frontier LLMs to generate detection logic against counterfeit cell towers.

Steve Flammia and **Yang "Cindy" Yi** — IAC faculty; CCI Southwest 2026 grant recipients for quantum changepoint detection and advanced data security research.

Jiaqi Leng — Assistant Professor of Computer Science based at the IAC from August 2026 (from UC Berkeley's Simons Institute); research in quantum algorithms for "large-scale optimization, machine learning, and scientific computing" and "differentiable hybrid quantum-classical frameworks for optimal control, with applications to large-scale AI and robotics problems." The hiring announcement states the IAC "currently includes 20 faculty members and serves more than 500 graduate students, with plans to grow to approximately 50 faculty."

IAC staff (team page, August 2026) — Elizabeth Quill (Experiential Learning Coordinator), Sara Hooshangi (Director, Computer Science Master of Engineering Program), Andy Woodall (Assistant Vice Provost, Enrollment

Management), Patty Cardenas (Director of Admissions), Franki Fitterer (Director of Marketing and Communications).

21.3 Teaching & Curriculum

The IAC manages Master of Engineering programs in computer science and computer engineering, with project-based learning informed by industry, government, and NGO partners. Pamplin programs occupy the fourth floor: online MSIT, Executive PhD, and MSBA specializations. Fall 2026 Pitch Day (August 25, 2026, Academic Building One): "There are 114 students in the classes this semester, participating in 25 projects," with more than 150 attendees and partners including the Alexandria City Office of Analytics, Innovation, and Data and Alexandria City Public Schools.

A K-12 education space (second floor, Alexandria City Public Schools partnership) is documented. An NSF-sponsored Summer 2026 AI Camp (Exploring AI, Chip Manufacturing, and Physical Computing) was announced at Potomac Yard as part of the Northern Virginia STEM Learning Network.

21.4 Tools & Technology

Building One facilities include a two-story drone testing cage, a cyber physical lab, an immersive visualization lab, a maker's space with 3D printing, 14 classrooms, and 32 huddle rooms. Two shell floors are reserved for future programming. The larger 40-acre development will include a VTTI smart mobility research test bed.

21.5 Research & Scholarship

The IAC organizes research around five pillars: AI/ML (first-listed), Wireless and Next-Gen Technology, Quantum Computing, Computer Systems, and Intelligent Interfaces.

CCI Southwest 2026 Cybersecurity Grants (July 2025–June 2026): Four IAC researchers received grants — AI/ML-powered counterfeit cell tower detection (Liu), online safety for military families (Luther), quantum changepoint detection (Flammia), and advanced data security for autonomous systems (Yi). The RISE-IoT Convergence Workshop (April 3, 2026, Academic Building One; "More than 35 participants") was led by Yang (Cindy) Yi and Lingjia Liu (ECE, IAC-based) with Peter Vikesland (CEE), on "Neuromorphic Sensing and Computing, NextG Connectivity, hardware-software co-design, and federated learning," with participants from the FDA, NSF, regional universities, and VTTI. Walid Saad, now styled "Next-G

Wireless lead at the Institute for Advanced Computing," appeared in the September 16, 2026 VT News Q&A on the AI slowdown debate.

ICTAS and IAC jointly solicit proposals for \$25,000-\$50,000 per year for up to two years (beginning October 2025), requiring transdisciplinary partnerships. Saad's quantum-AI autonomous coordination research and Luther's Crowd Intelligence Lab are based at Building One.

21.6 Events & Programming

Grand Opening (February 28, 2025): 1,000+ attendees including Governor Youngkin, Senators Warner and Kaine, and former DARPA director Regina Dugan as keynote.

OpenAI Leaders+ Discussion (March 31, 2026): President Sands welcomed OpenAI VP for Science Kevin Weil for a facilitated discussion with Rishi Jaitly (Institute for Leadership in Technology). 150+ researchers, graduate students, and industry community members.

VirginiaAI Summit (September 30-October 1, 2025): Hosted by VASEM at the IAC. Co-sponsored by College of Science, Sanghani Center, and IAC. Brought together AI researchers, industry leaders, and policymakers.

AI for Pediatric Health Symposium (May 28, 2026): Third annual symposium, hosted at Academic Building One by Children's National Hospital and Virginia Tech; announced the Children's National & Virginia Tech Pediatric Health AI Innovation Hub (Units 4, 8/15). Speakers: Ramakrishnan, Friedlander, Sally Allain, Sarah Clinton; keynote Rod Tarrago (AWS).

A summer 2026 NSF-sponsored AI camp (see 21.3); no post-event report on the camp was found.

Gaps and Observations

The IAC is VT's most ambitious AI-adjacent physical investment. The rebranding from "Innovation Campus" to "Institute for Advanced Computing" signals a sharper academic identity. Sixteen months after the institute was created, the inaugural executive director search is still open, the interim leader has been restyled "managing director" and given the Boeing chair, and the AI/ML lead has been named to the president's AI vision body. Whether the IAC develops its own research culture distinct from the Sanghani Center, which occupies the same building and shares the

AI/ML pillar leadership, remains an open question that the director search will shape.

Cross-References

- **College of Engineering / Sanghani Center (Unit 4):** Ramakrishnan directs both Sanghani and the IAC AI/ML pillar. Sanghani headquartered on fifth floor.
- **Pamplin (Unit 3):** Fourth floor hosts MSIT, Executive PhD, MSBA programs.
- **VTI (Unit 13/14):** Smart mobility test bed planned for the larger development.
- **College of Science (Unit 2):** VirginiaAI Summit co-sponsorship. Summer 2026 AI Camp.
- **ICTAS (Unit 22):** Joint ICTAS-IAC research funding mechanism.
- **Part I, Section VIII:** IAC documented among VT's strategic AI infrastructure investments.
- **Part I, Section IX:** Sands and Weil statements at IAC events; Warner and Dugan appearances are documented in this dossier.

Sources

IAC home page — institute overview, research pillars, and admissions.

<https://iac.vt.edu/>

VT News on IAC formation (May 2025) — Clarke statement, Cameron appointment, and rebranding.

<https://news.vt.edu/articles/2025/05/provost-dc-institute-for-advanced-computing.html>

VT Notice on Alexandria style guidance (May 2025) — branding change from Innovation Campus.

<https://news.vt.edu/notices/2025/05/cm-style-alexandria.html>

VT News on CCI Southwest 2026 grants to IAC faculty (August 2025) — Liu, Luther, Flammia, Yi.

<https://news.vt.edu/articles/2025/08/iac-cci-research-grants.html>

VT D.C. area locations page — Building One description and campus overview.

<https://dcarea.vt.edu/about/locations.html>

Alexandria Economic Development page on IAC — investment figures and partner details.

<https://alexandriaecon.org/featured-project/vt-innovation-campus/>

National Landing overview — IAC's position in the innovation district. As of September 2026 the address serves a general Business and Innovation page in which the IAC is one section.

<https://nationallanding.org/our-downtown/virginia-tech>

IAC team page (August 20, 2026).

<https://iac.vt.edu/about/team.html>

Isaacson, Miller: IAC executive director search.

<https://www.imsearch.com/open-searches/virginia-polytechnic-institute-and-state-university-institute-advanced-computing>

VT News: Jiaqi Leng joins the IAC (August 12, 2026).

<https://news.vt.edu/articles/2026/08/quantum-computing-researcher-joins-institute-for-advanced-computing.html>

VT News: Fall 2026 Pitch Day (September 2026).

<https://news.vt.edu/articles/2026/09/Fall2026PitchDayFeaturesNewProjectsforMasterofEngineeringStudents.html>

VT News: RISE-IoT Convergence Workshop (April 2026).

<https://news.vt.edu/articles/2026/04/iac-rise-iot-convergence-workshop.html>

Unit 22. Investment Institutes (ICAT, ICTAS, Fralin Life Sciences, ISCE)

Key Signals: VT's four investment institutes seed transdisciplinary research with university funds. ICAT bridges creative AI and HCI with a dedicated Sanghani Center partnership track for generative AI. ICTAS provides seed funding that incidentally reaches ML/AI projects and jointly funds research with IAC. Fralin Life Sciences supports computational neuroscience and biomedical AI through affiliates. ISCE's connection to AI is indirect — through STS researchers and GeoAI funding.

Virginia Tech operates four investment institutes under the Office of Research and Innovation: the Institute for Creativity, Arts, and Technology (ICAT), the Institute for Critical Technology and Applied Science (ICTAS), the Fralin Life Sciences Institute, and the Institute for Society, Culture and Environment (ISCE). None has its own AI policy. All operate under the university-wide AI framework.

22.1 Governance & Policy

No AI-specific policy, AI position statement, or AI governance framework was identified on the four institutes' pages. ICTAS and IAC now jointly solicit research proposals (\$25,000–\$50,000 per year for up to two years, beginning October 2025), requiring transdisciplinary partnerships. The ORI organizational chart (August 5, 2026) names the institute heads: Tom Martin (ICAT), Stefan Duma (ICTAS), Rob McCarley (Fralin Life Sciences), and Tina Savla (ISCE).

22.2 People

Tom Martin — Executive Director of ICAT from May 10, 2026; interim co-executive director with Lisa McNair (deputy executive director) from August 2025, "when the pair stepped in for the former executive director, Ben Knapp." Professor of Electrical and Computer Engineering; former NSF program director (Smart Health and Human-Centered Computing). Reports to the senior vice president for research and innovation. Oversees the SEAD grants program, including the dedicated Sanghani Center partnership track for generative AI. Knapp left the role by August 2025 and does not appear on the ICAT team page.

Stefan Duma — Executive Director, ICTAS; elected to VASEM 2026; attended the August 28, 2026 Counter-UAS center ribbon cutting. **Matthew**

Hull — Research professor and director of the Nanoscale Characterization and Fabrication Laboratory within ICTAS; co-PI on the \$20 million NSF Programmable Cloud Laboratory Node (August 2026), which makes the NCFL one of the node's three facilities. **Rob McCarley** — Executive Director, Fralin Life Sciences Institute. **Tina Savla** — Executive Director, ISCE.

Sue Ge (Economics) — Director, Center for Future Work Places and Practices (est. 2023 under ICAT). Research leverages ML/AI, immersive environments, HCI, human-centered design, autonomous systems, and labor policy.

Mary Kasarda (Associate Professor, Mechanical Engineering) — ICTAS Faculty Director for Scholarship. Oversees seed funding programs.

Fralin Life Sciences and Fralin Biomedical Research Institute leadership and affiliated AI researchers are documented in Unit 8/15. ICAT-affiliated AAD faculty (Elgewely, Gipe-Lazarou, Borunda) are documented in Unit 9.

22.3 Teaching & Curriculum

Not publicly documented at the institute level. Teaching activity occurs through affiliated departments and colleges. One exception: ICAT's Center for Future Work Places and Practices ran "Artificial Intelligence for Beginners," an online synchronous program for high school sophomores through seniors (three weeks, June 15 to July 2, 2026, Monday through Thursday evenings; weekly themes of AI, ML, and GenAI foundations; building an ML/AI model; and "AI in Society: Advantages and Opportunities"; \$400 domestic, \$1,000 international, with CFWPP scholarships and full scholarships for Botetourt County Public Schools students). CFWPP also runs a "Future of Work in Health Faculty Fellows Program" with applications due November 30, 2026.

22.4 Tools & Technology

ICTAS maintains the Nanofabrication Characterization and Fabrication Laboratory as shared research facilities. ICAT operates the Cube (immersive visualization environment) in partnership with the Libraries. CHCI's dual Blacksburg-Alexandria presence is documented in Unit 21.

22.5 Research & Scholarship

ICAT Major SEAD Grants

CHCI Marine Corps Training Deployment (May 2026)

Researchers from ICAT's Center for Human-Computer Interaction and the University of Memphis deployed a modified version of Call of Duty 4: Modern Warfare at Marine Corps University's Sergeants School in Quantico, funded by the Office of Naval Research. Louis Hickman recruited CHCI director Ryan McMahan and Memphis assistant professor Brandon Booth to the project. The platform runs 14 scenarios tailored to the school and collects player data for analysis by a large language model to strengthen after-action reviews; the first cohort began in January 2026. Hickman is documented in Units 23-24 and Part I, Section IX for the admissions AI essay reader.

The 2025-2026 cycle includes a dedicated partnership track with the Sanghani Center, seeking proposals that "focus on the potential of Arts and Design to partner with and expand the reach of generative AI." Areas of interest include deploying AI in creative and empathetic education, partnering with AI to advance artistic and design practice, and other SEAD-generative AI intersections. A parallel CALS partnership track with CAIA seeks proposals integrating advanced technologies (including AI) with large agricultural datasets. The 2026-27 cycle (deadline extended to February 6, 2026; awards the week of March 20; funding from August 1, 2026) offers up to \$25,000 for open-call proposals and, for eight special tracks, caps of \$40,000 (Creativity, Empathy, and AI with the Sanghani Center; Innovation Campus Partnership; ICAT/Institute for Advanced Computing Partnership), \$25,000 (Smart Ag; Future of Work; High-Risk, High Reward Transdisciplinary Course Creation; Sustainable/Renewable Creativity), and \$12,000 (ArtX with CIRMMT); the cycle adds tracks for an Innovation Campus partnership, an ICAT/IAC partnership, a CIRMMT/McGill exchange, the Future of Work, transdisciplinary course creation, and sustainable creativity. The ICAT supported-research page (July 2026) does not yet list 2026-27 awards, so the Sanghani-track awardees are not publicly documented; one 2026-27 award is known from its recipient's side: VR-ACCESS (\$40,000; PI Chang-Tien Lu, Sanghani; co-PIs Gipe-Lazarou and Elgewely, AAD).

Documented ICAT SEAD-funded AI projects: AI-Accessibility (Major SEAD, 2024-2025; Unit 9); "Verdant Visions" (Mini SEAD, 2024-2025), leveraging generative AI to illustrate climate impacts on plant life; "Mood Cocoon" (Mini SEAD, 2025-2026), integrating interactive technology, art therapy, and psychology for emotional well-being. ICAT and the Center for Human-Computer Interaction are tagged on a 2026 project, "Chatting with AI to combat online grooming" (VT News, September 14, 2026): Jin-Hee Cho (PI,

CS), Sang Won Lee (CS), and Pamela Wisniewski (ICSI) built an AI chatbot that "gradually advances the interactions from innocent to predatory" to train teens to recognize cybergrooming, funded by NSF, ICSI, CCI, the William T. Grant Foundation, and CHCI, building on a May 2026 ACM CHI paper. ICTAS's NCFL is one of three facilities in the \$20 million NSF Programmable Cloud Laboratory Node (August 2026). No AI-specific items were found for ISCE or Fralin Life Sciences in the window.

Susan E. Duncan Innovation in Agriculture and Life Sciences Seed Grant

Co-funded by ICAT, VT-ARC, and CALS ORI. Requires integration of agriculture/life sciences with arts, creativity, and design. 2026 cycle awards announced by March 21, 2026.

ICTAS EFO-O Grants

ML-related research includes "Machine Learning and Optimization for Advanced Manufacturing of Ultra-high-performance Polymer/Graphene Membranes" (Xi Chen, ISE) and "Machine-Learning-enabled Source Attribution of Salmonella enterica" (genomic variants).

ICTAS-IAC Joint Funding

Transdisciplinary proposals of \$25,000–\$50,000 per year for up to two years, beginning October 2025.

Fralin Life Sciences Institute

Supports computational neuroscience through affiliates at FBRI (Montague, Chiu, LaConte, Casas; documented Unit 8/15). Xie (VMCVM, Unit 10) is a Fralin affiliate. The Translational Plant Sciences Center includes Song Li's ML for plant systems work (Unit 1).

ISCE

Co-funds the Global Change Center (with Fralin). Funded Junghwan Kim's GeoAI research (Unit 6). AI relevance is indirect — through STS researchers studying AI's social implications (Unit 5).

22.6 Events & Programming

ICAT's SEAD-funded projects generate public events (AI-Accessibility Cube exhibition, Blind Design Workshop, NFB workshops documented in Unit 9). ICAT Playdate (February 17, 2025) hosted the "Assistive LLM for Individuals with Vision-Impairment" presentation. The Center for Future Work Places and Practices was established in 2023. ICAT's fall 2026

Playdate kickoff (August 28, 2026) introduced Martin and the institute's leadership; the page carries no AI content.

Gaps and Observations

The investment institutes' AI footprint is primarily a funding-and-convening function rather than an operational one. ICAT's dedicated Sanghani Center generative AI partnership track is the most deliberate signal, and its 2026-27 cycle caps the track at \$40,000; whether it produces lasting research programs or single-cycle projects will depend on follow-through that the institute's supported-research page does not yet show. ICAT went through a full leadership change (Knapp out by August 2025, Martin permanent from May 2026). ICTAS's role in the \$20 million NSF node is the institutes' largest AI-labeled research position to date.

The historical note matters: VT's former Virginia Bioinformatics Institute (founded 2000) moved to UVA in 2018. That loss of an entire computational biology institute still shapes VT's AI-in-life-sciences infrastructure today.

Cross-References

- **AAD (Unit 9):** AI-Accessibility project funded by ICAT Major SEAD. Elgewely is ICAT Senior Fellow.
- **CALS (Unit 1):** Duncan Seed Grant co-funded by ICAT. CALS partnership track in Major SEAD.
- **Sanghani Center / CoE (Unit 4):** Dedicated generative AI partnership track.
- **IAC (Unit 21):** ICTAS-IAC joint research funding.
- **VTCSOM / FBRI (Unit 8/15):** Fralin Life Sciences affiliates.
- **VMCVM (Unit 10):** Xie is Fralin affiliate.
- **CNRE (Unit 6):** ISCE funded Kim's GeoAI research.
- **CLAHS (Unit 5):** ISCE's AI connection through STS researchers.

Sources

ICAT home page — institute overview and mission.

<https://icat.vt.edu/>

ICAT funding overview — SEAD grants, partnership tracks, and application process.

<https://icat.vt.edu/funding.html>

ICAT Major SEAD Grant page — Sanghani partnership track and CALS partnership track descriptions.

<https://icat.vt.edu/funding/major-sead-grant.html>

ICAT supported research projects — full list of funded SEAD projects.

<https://icat.vt.edu/projects/supported-research.html>

AI-Accessibility ICAT project page — 2024-2025 Major SEAD grant details.

<https://icat.vt.edu/projects/supported-research/sead-grants/2024-2025/major/ai-accessibility.html>

Verdant Visions ICAT project page — 2024-2025 Mini SEAD, generative AI for climate visualization.

<https://icat.vt.edu/projects/supported-research/sead-grants/2024-2025/mini/verdant-visions.html>

Mood Cocoon ICAT project page — 2025-2026 Mini SEAD, interactive technology and art therapy.

<https://icat.vt.edu/projects/supported-research/sead-grants/2025-2026/mini/mood-cocoon.html>

Duncan Innovation Seed Grant page — ICAT/ARC/CALS co-funding and 2026 cycle.

<https://icat.vt.edu/funding/susan-duncan-innovation-in-agriculture-and-life-sciences-seed-gr.html>

ICTAS home page — institute overview and research facilities.

<https://ictas.vt.edu/>

Fralin Life Sciences Institute home page.

<https://fralinlifesci.vt.edu/>

VT News: Tom Martin named ICAT executive director (March 24, 2026).

<https://news.vt.edu/articles/2026/03/research-Tom-Martin-ICAT.html>

ICAT team: Tom Martin profile.

<https://icat.vt.edu/about/team/tom-martin.html>

VT News: interim co-directors of ICAT (July 2025).

<https://news.vt.edu/articles/2025/07/research-co-interim-directors-icat.html>

CFWPP: Artificial Intelligence for Beginners (summer 2026).

<https://cfwpp.icat.vt.edu/artificial-intelligence-for-beginners.html>

CFWPP home (Future of Work in Health fellows).

<https://cfwpp.icat.vt.edu/>

VT News: chatting with AI to combat online grooming (September 14, 2026).

https://news.vt.edu/articles/2026/07/icat-chci_Teaching_Teens_to_Navigate_Cybergrooming.html

ICAT Playdate fall 2026 kickoff (August 28, 2026).

<https://icat.vt.edu/events/2026/08/icat-playdate---fall-semester-kick-off-with-tom-martin-.html>

VT News on the CHCI Marine Corps training deployment (May 2026) — modified Call of Duty 4 at Sergeants School, ONR funding, and LLM-based after-action review plans.

https://news.vt.edu/articles/2026/05/icat-chci-Military_Education_No_Game.html

Units 23-24. Student Affairs, Enrollment Management, and Administrative Units

Key Signals: The admissions AI essay reader — debuted for Fall 2025 admissions and announced nationally via the Associated Press — is the most consequential operational AI deployment at VT outside of research computing. Academic Advising's "Responsible Use of AI in Advising" document, with its Human-in, Human-out (HIHO) framework, is the third documented unit-level AI policy in this inventory. Continuing and Professional Education operates two AI professional development partnerships (AI/ML Bootcamp with Fullstack Academy, Agentic AI program with Simplilearn).

This dossier covers the Division of Student Affairs and its sub-units with documented AI activity, Enrollment Management, the Office of Analytics and Institutional Effectiveness, Continuing and Professional Education, University Advancement, and administrative units represented on the AI Working Group.

23-24.1 Governance & Policy

Division of Student Affairs

No division-wide AI guidance or policy was identified. No public AI-specific statement from Vice President Frances Keene was identified. Hikmet Gursoy, IT Director for Student Affairs, sits on the university AI Working Committee, as do Undergraduate Student Senate and Graduate Student Senate representatives (Division of IT governance site, modified August 7, 2026; roster in Part I, Section I.B). The Undergraduate Student Senate had a representative on the AI Working Group. The first sub-unit AI guidance in the division identified in this inventory appeared in September 2026: Hokie Wellness's "Fall 2026 Digital Well-being Challenges" include Challenge 5, "Need health and wellness advice? Use AI but verify," stating that "Virginia Tech encourages responsible AI use. It can be a useful tool for learning about health topics," with the prompts "Who is the source? Can I verify it? Is there evidence?" The Student Affairs leadership page (September 2026) lists Keene, Ashley Roberts (Interim Chief of Staff), Meaghan Davidson (AVP and Dean of Students), Martha Glass, Chelsea E. Haines (Interim AVP, Student Engagement), Mike Staples, Chris Wise, and Heather Wagoner; no AI statement from any of them was identified. No Student Affairs representative sits on the AI Futures Working Group.

Academic Advising — HIHO Framework

Academic Advising and Transition Support published "Responsible Use of AI in Advising" (last updated February 2026) — the third documented unit-level AI policy after Pamplin's AI Position Statement and VCE-1213. Its Human-in, Human-out (HIHO) framework states that "human professionals initiate, guide, and validate all AI-assisted work." Key provisions: no PII, education records, or FERPA-protected information may be entered into AI tools unless formally approved for FERPA-aligned use; advisors must use only institutionally approved tools via VT accounts; when AI tools are used in contexts involving others (e.g., transcribing appointments), explicit consent is required from all participants; disclosure is recommended but not required when AI was used to prepare materials or inform recommendations; advisors retain the right to decline use of unauthorized AI tools. The document is a living document. Appropriate uses include drafting communication templates, summarizing general policy information, brainstorming advising strategies, generating meeting agendas, and creating educational materials.

Administrative Representation on AI Working Group

University Advancement, the Office of Audit, Risk, and Compliance (OARC), Human Resources, Outreach and International Affairs, and the Controller's Office all had representation on the AI Working Group. No AI-specific guidance from any of them was identified. The Academic Advising "Responsible Use of AI in Advising" page remains "last updated February 2026"; it does not reference HokieAI and directs advisors to ai.vt.edu/tools.html for approved tools. The Office for Strategic Affairs, not previously in this dossier, facilitates the president's AI Futures Working Group; its director, Lauren Pollard, is a member (Part I, Section I.B).

23-24.2 People

Juan Espinoza — Vice Provost for Enrollment Management. Led the deployment of the admissions AI essay reader and has been the most publicly vocal administrative leader on AI at VT, speaking to the Associated Press, VPM, US News, the Collegiate Times, IMSA's Acronym, and other outlets. On consistency: "Humans get tired; some days are better than others. The AI does not get tired. It doesn't get grumpy. It doesn't have a bad day." On transparency: "The feedback from a lot of colleagues is, 'You roll this out, we're watching you, and we'll see how everyone's reacting.'" On the rubric: "The rubric for the AI looks for non-academic, non-cognitive

factors — not only how students are gonna do in college, but how they're gonna do in life."

Louis Hickman — Assistant Professor, Department of Psychology (College of Science). Led the research team that developed the admissions AI essay reader over three years. Background in I-O psychology and ML includes positions as the first I-O psychologist to serve as Visiting Scholar at Amazon and as Senior Fellow at Wharton People Analytics (UPenn). Publications include "Using artificial intelligence to assess personal qualities in college admissions" (*Science Advances*, 2023, with Duckworth et al.), research on reducing subgroup differences in selection through ML (won the *Personnel Psychology* 2025 Best Paper Award and the 2025 Jeanneret Award), and an integrative review of algorithmic bias mitigation (*Journal of Applied Psychology*, 2025).

Rob Hopkins II — Assistant Vice Provost for Analytics & AI, Office of Analytics and Institutional Effectiveness. Co-led the admissions AI tool development. His title is one of the few VT administrative positions with "AI" in the name. No 2026 public statement from Hopkins on the essay reader was found.

Matthew Cowley — Associate Vice Provost for Career and Professional Development. Oversees VMock deployment and the Career Readiness Toolkit.

Shelly Jobst — Director, Continuing and Professional Education. Oversees the VT-Simplilearn Agentic AI partnership and the VT-Fullstack Academy AI/ML Bootcamp.

Jill Sible — Associate Vice Provost for Undergraduate Academic Affairs. Quoted in the Pamplin+ launch announcement (September 2026). Undergraduate Academic Affairs co-sponsored the August 13, 2026 AI Teaching Symposium.

Lauren Pollard — Director of Strategic Affairs (Strategic Affairs page; VT News renders it "director for strategic affairs"); member of the AI Futures Working Group, which her office facilitates.

23-24.3 Teaching & Curriculum

AI Undergraduate Curriculum Development Grants

The Office of Undergraduate Curriculum, CETL, and TLOS launched a joint grant program (February 2026) for faculty to develop new AI-centric courses, substantially revise existing courses, or create new AI-focused

minors or majors. Round one: up to \$10,000 per proposal; Summer Institute gathering May 22, 2026; showcase fall 2026; 29 funded proposals listed on the recipients page, including the university-wide AI minor launched fall 2026. Round two (page dated September 21, 2026): up to \$5,000 per proposal (\$2,500 per faculty member), deadline December 4, 2026. Full detail in Part I, Section III.A and Unit 19.

Continuing and Professional Education

The Virginia Tech AI & Machine Learning Bootcamp (powered by Fullstack Academy) covers statistics, Python, applied data science, machine learning, deep learning, NLP, generative AI, agentic AI frameworks, and MLOps. The program page as of September 2026: 23 weeks part-time; \$4,995 upfront or \$5,995 in four installments; application deadline September 25, 2026; cohort October 5, 2026 to March 29, 2027; Monday, Wednesday, and Thursday evenings (the spring 2026 page listed 26 weeks, \$6,995, and an April to October cohort).

The Applied Agentic AI: Systems, Design & Impact program (10 weeks, in partnership with Simplilearn, announced April 2, 2026) covers agent coordination, multi-agent orchestration, communication protocols, and planning systems, targeting product managers, designers, and tech leaders. Offers joint VT-Simplilearn digital badges and Microsoft Learn credentials, with access to 25+ tools and frameworks including LangChain, AutoGen, CrewAI, and Hugging Face. Listed at \$2,999 (with a 10 percent discount offered) across 13 modules; admission for the fall cohort closes September 29, 2026. CPE's Lifelong Learning Institute also lists a course described as teaching lifelong learners "to make AI a writing partner, not a ghostwriter" (the linked article was not retrievable).

Career and Professional Development

Published "How to Effectively Utilize AI Tools" for job search optimization. CPD's language acknowledges that "AI has come to the job hunting and hiring process, and anyone left out will invariably be left behind."

23-24.4 Tools & Technology

Admissions AI Essay Reader

Debuted for the 2025-26 undergraduate admissions cycle (announced July 24, 2025). Developed over three years by VT researchers (Hickman, Hopkins, Espinoza). The system uses a large language model architecture

that evolved from one LLM to three LLMs over the development period, trained on past VT applicant essays and the admissions scoring rubric.

Process: previously, each of four short-answer essays was scored by two human readers (0–12 scale) with a third reader if scores diverged by 4+ points. Now: one human reader plus one AI reader, with a second human reader stepping in if scores diverge by 2+ points (a tighter threshold).

Scale: 57,622 first-year applications for Fall 2025 (fifth consecutive record year, 10.2% increase), four essays per applicant. The AI scans all essays in under an hour versus approximately two minutes per essay per human reader. VT reports saving at least 8,000 hours of reader time and delivering early action decisions approximately one month earlier.

VT emphasizes the AI confirms but does not replace human reader scores. Final admissions decisions are made exclusively by human admissions professionals. The AI model was "rigorously tested for accuracy and fairness" and is subject to ongoing monitoring.

External criticism has been documented. College counselor Sarah Harberson noted a policy gap: VT uses AI to evaluate student essays but has not explicitly addressed whether applicants may use AI to write them. NACAC updated its ethics guide in Fall 2025 to add an AI section urging alignment with "transparency, integrity, fairness and respect for student dignity." The AP story (December 2, 2025) brought national attention, positioning VT as the first college to openly announce AI essay review. No new public statement on the essay reader for the 2026-27 admissions cycle was found, from VT or in external coverage, and no applicant-facing guidance on AI-assisted essays was found on the admissions pages reviewed as of the evidence snapshot date.

VMock

AI-powered resume feedback tool available to all VT students through Career and Professional Development. Provides instant, personalized feedback on resumes across three parameters: Impact, Presentation, and Competencies.

23-24.5 Research & Scholarship

Hickman's research program directly intersects the admissions AI deployment. His publication record includes the *Science Advances* article on AI assessment of personal qualities in college admissions (2023, with Duckworth), the *Personnel Psychology* paper on reducing subgroup differences through ML (2025 Best Paper), the *Journal of Applied*

Psychology integrative review of algorithmic bias mitigation (2025), and research on LLM performance on quantitative and verbal ability tests (*International Journal of Selection and Assessment*, 2024).

23-24.6 Events & Programming

The AI Undergraduate Curriculum Development Grants Summer Institute (May 22, 2026) and fall 2026 showcase; Undergraduate Academic Affairs co-sponsorship of the August 13, 2026 AI Teaching Symposium; and the Hokie Wellness fall 2026 digital well-being challenges.

Gaps and Observations

The admissions AI essay reader is the most consequential operational AI deployment in this inventory. It touches 57,000+ applicants annually, involves a three-LLM architecture developed by VT researchers, and was described by the AP as the first college to openly announce AI essay review. Espinoza's willingness to discuss it on the record — including with the AP — contrasts with the opacity of other institutions' admissions AI use.

The criticism about the policy gap (using AI to evaluate essays while not addressing applicant AI use) is legitimate and unresolved. No applicant-facing guidance on AI-assisted essay writing was found on the admissions pages reviewed. This asymmetry is noted but not explained.

The Academic Advising HIHO framework is the most operationally specific administrative AI policy in the inventory. Its FERPA-protective provisions, consent requirements, and right-to-decline clause address concerns that unit-level AI guidance at most VT colleges has not.

Cross-References

- **College of Science (Unit 2):** Hickman is CoS faculty (Psychology). His ADSDF-funded project documented in Unit 2.
- **TLOS / CETL (Units 18-19):** AI Undergraduate Curriculum Development Grants are a joint program.
- **Part I, Section IV:** Admissions AI essay reader and VMock documented as institutional tools.
- **Part I, Section VIII:** CPE programs documented as strategic investment.
- **Part I, Section IX:** Espinoza's public statements and media coverage documented.

Sources

VT News on admissions changes (July 2025) — AI essay reader announcement, Espinoza quotes, and process description.

<https://news.vt.edu/articles/2025/07/admissions-changes-2025.html>

VT News admissions FAQ (July 2025) — Hickman's background, three-year development timeline, and accuracy/fairness testing.

<https://news.vt.edu/articles/2025/07/admissions-updatesFAQ-2025.html>

VPM on college admissions AI (December 2025) — Espinoza interview, national AP syndication, and transparency positioning.

<https://www.vpm.org/news/2025-12-02/college-admissions-artificial-intelligence-virginia-tech-juan-espinoza>

US News on admissions AI (December 2025) — national coverage and institutional positioning.

<https://www.usnews.com/news/best-states/virginia/articles/2025-12-02/ai-may-be-scoring-your-college-essay-welcome-to-the-new-era-of-admissions>

IMSA Acronym on colleges using AI for applications (March 2026) — student journalism perspective on VT's tool.

<https://sites.imsa.edu/acronym/2026/03/31/colleges-are-using-ai-to-read-your-application/>

GradPilot AI policies analysis for VT — external criticism and policy gap observation.

<https://gradpilot.com/ai-policies/virginia-tech>

DC College Counseling on VT admissions changes — speculation on AI-generated essay detection.

<https://www.dccollegecounseling.com/blog/vtchanges>

AI Undergraduate Curriculum Development Grants page — grant structure, timeline, and OUC/CETL/TLOS co-administration.

<https://www.undergraduate.provost.vt.edu/ouc/ai-undergraduate-curriculum-development-grants.html>

Continuing and Professional Education home page — AI/ML Bootcamp and Agentic AI program listings.

<https://cpe.vt.edu/>

Hokie Wellness: Fall 2026 Digital Well-being Challenges (AI guidance).

https://hokiewellness.vt.edu/students/initiatives/digital_well_being.html

Division of Student Affairs leadership page (September 2026).

<https://students.vt.edu/leadership.html>

CPE Lifelong Learning Institute page (AI writing partner course listing).

<https://cpe.vt.edu/lifelonglearning.html>