
AI IN HIGHER EDUCATION

Lehigh University

Comprehensive AI Governance & Activity Inventory

A Public-Source Institutional Reference

What Lehigh has said and done publicly about artificial intelligence

LEHIGH

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Introduction

What This Document Is

This document is a public-source inventory of AI governance, teaching, research, and operations at Lehigh University. 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. Every major claim carries a URL. 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.

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 nine unit dossiers, one for each college, 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 June 10, 2026. 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 Lehigh inventory is the fifth completed institutional inventory produced from that research, joining comprehensive AI governance inventories for Virginia Tech (DOI: [10.5281/zenodo.19670612](https://doi.org/10.5281/zenodo.19670612)), William & Mary (DOI: [10.5281/zenodo.19696361](https://doi.org/10.5281/zenodo.19696361)), Marymount University (DOI: [10.5281/zenodo.19701771](https://doi.org/10.5281/zenodo.19701771)), and the University of Virginia (DOI: [10.5281/zenodo.20626786](https://doi.org/10.5281/zenodo.20626786)), alongside a peer benchmark covering 23 BOV-adopted national peer institutions (DOI: [10.5281/zenodo.19672836](https://doi.org/10.5281/zenodo.19672836)) and a public-source reference guide covering 30 Virginia four-year institutions (DOI: [10.5281/zenodo.19671839](https://doi.org/10.5281/zenodo.19671839)).

The working paper *Governance Without Readiness: How 53 American Universities Responded to Generative AI* (DOI: [10.5281/zenodo.19647273](https://doi.org/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.

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How to Read This Document

Part I is the institutional layer: ten sections that describe Lehigh's AI governance architecture, policy corpus, teaching posture, tool ecosystem, and investment record as a single system. Part II is the unit layer: nine dossiers, one per college, institute, or administrative division, 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 Gaps and Observations (the analytical layer, kept separate from factual reporting), Cross-References to related units, and 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, then Unit 7 (Office of the Provost), which holds the Generative AI Advisory Group, the published institutional principles and their planned spring 2026 revision, the Office of Educational Innovation and Assessment, and the AI Readiness initiative. Lehigh's governance is more centralized in the Provost's office than the unit structure alone would suggest; Unit 7 is where the strategy lives.

CIOs and IT leadership. Read Part I Section IV for the tool ecosystem and procurement record, then Unit 8 (Library and Technology Services and its April 2026 successor units), which documents the LibreChat-based LLM Gateway, the LTS sandbox, the GenAI Software Registry, the data classification implementation, and the reorganization that moved Information Technology Services under Finance and Administration.

Teaching center directors and academic affairs. Read Part I Sections III and V, then the Center for Innovation in Teaching and Learning material in Unit 7: the AI Tutor Project, the GEM framework, the three model syllabus options, and the SMART community of practice.

Library leadership. Read Part I Section VII, then Unit 8, which documents the AI LibGuides, the Special Collections AI programming, and the new Arts and Libraries division created in the April 2026 split.

Researchers, journalists, and policy staff. Every claim is sourced. Part I Section X (Evidence Archive) and the unit Sources sections together carry more than 220 unique URLs, frozen at the snapshot date, and are designed to be cited.

Vendors and partners. Read Part I Section IV for what is already licensed and deployed, then Unit 8 for the procurement apparatus, including the GenAI Software Registry and the documented decision to opt out of Turnitin's AI detection add-on.

Three conventions govern the whole document. First, the evidence is frozen at June 10, 2026; 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: June 10, 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

Part I synthesizes the cross-cutting AI governance, policy, teaching, tool, integrity, research, library, infrastructure, and public-statement signals at Lehigh University as of the snapshot date. Operational detail for each unit lives in Part II's nine unit dossiers; Part I describes how those pieces fit together at the institutional level. Where a fact is covered at length in a unit dossier, Part I states the institutional-level claim and points to the relevant unit. Part I's Sources section is independent of the unit dossiers' Sources sections; the same source may appear in both, described for the claim it supports in each location.

I. Institutional AI Governance Architecture

Lehigh's AI governance is centralized in the Office of the Provost to a degree uncommon among research universities of its size. A single advisory body — the Generative AI Advisory Group — was established by Provost Nathan Urban on January 20, 2025, charged to advise the Provost and the Vice President for Finance and Administration on three questions: where Lehigh has the greatest opportunity to use generative AI to improve educational, research, and administrative goals; how to better support faculty and staff in using AI effectively and ethically; and where the institution has gaps in policy regarding appropriate AI use. The group reported jointly to Urban and to Chris Cook (then Interim Vice President for Finance and Administration, since confirmed in the role), making the formal authority structure dual-stem from the start: academic affairs and finance/administration in joint stewardship of AI policy.

The founding membership of six included Bill Gaudelli (Senior Vice Provost for Educational Innovation and Assessment, on dean leave from the College of Education); Haiyan Jia (Associate

Professor of Journalism and Communication, College of Arts and Sciences); Ilena Key (then Chief Technology Officer, now Associate Vice President for ITS and CIO); Luis Nunes Vicente (Chair of Industrial and Systems Engineering); Dan Warner (Vice Provost for Admissions and Financial Aid); and Greg Reihman (then Vice Provost for Library and Technology Services, now Vice Provost for Arts and Libraries), who served as **Chair** of the Group as documented in the May 9, 2025 final report. The group produced its public report and recommendations within four months of formation. After the report's release, the Advisory Group transitioned into a permanent steering function that organizes the annual AI@Lehigh Summit and oversees the institutional AI Readiness initiative. Unit 7 documents this transition at length.

The operational architecture downstream of the Advisory Group runs through three integrated arms:

- **The Office of Educational Innovation and Assessment (OEIA)** under Vice Provost Dominic Packer is the assessment and pedagogy arm. Packer is the Provost-appointed lead of the Lehigh AI Readiness initiative and chaired the *Using AI in Teaching and Learning at Lehigh* panel at the 2nd Annual AI@Lehigh Summit on January 13, 2026.
- **The Center for Innovation in Teaching and Learning (CITL)** under Director Judd Hark is the faculty support arm — organizationally housed in the merged Library and Technology Services structure that existed from 2013 through April 2026, but operationally interlocked with the Provost cluster. CITL administers the AI Tutor Project, the GEM (Generative AI Exploration Module) program, the SMART community of practice, the AI@Lehigh Summit logistics, and the syllabus options framework that includes the three model statements (full integration, limited or assisted use with citation, prohibited use). After the April 2026 reorganization, CITL's administrative reporting line continues through Reihman in the new Arts and Libraries division, even though several CITL technology programs sit on infrastructure that now lives in ITS.
- **The ITS division** under Associate Vice President Ilena Key, now reporting through VP Christine Cook (Finance and Administration) after the April 2026 reorganization, owns the LLM Gateway, the sandbox, the GenAI Software Registry, the Data Classification Framework implementation, and the cybersecurity infrastructure that any institutional AI use must satisfy. Unit 8 documents the ITS portfolio at length.

A central public-facing portal at ai.lehigh.edu consolidates principles, tools, projects, events, and policies under one URL. The portal is the most consolidated single AI-information artifact published by any Lehigh administrative unit and serves as the canonical entry point for community members navigating Lehigh's AI ecosystem.

The **Office of the Vice Provost for Research** under Anand Jagota is governed by a separate stem reporting to the Provost. Its AI footprint is procedural rather than strategic: it has issued one substantive AI document (the *Guidance: Generative AI and Human Subjects Research*), administers research integrity through the IRB, IACUC, and CIRC, and oversees the sponsored funding pipeline through ORSP. It has not designated AI as a University Research Center theme, has not issued an AI-specific seed funding call, and does not name AI as a research-investment priority in the *Inspiring the Future*

Makers strategy alongside the three URC themes (catastrophe modeling, community-driven assistive technologies, electrification). Unit 9 documents this at length.

The **Provost's Core Implementation Team for AI**, a smaller working body distinct from the Advisory Group, includes Ilena Key (ITS), Vice Provost for Academic Systems and Services Jen O'Brien Knotts, and Associate Vice President for Institutional Data Yenny Anderson. The team handles cross-functional coordination on AI tooling rollouts and data governance decisions.

The April 2026 reorganization that split the merged Library and Technology Services into Arts and Libraries (under Reihman) and Information Technology Services (under Key, reporting through Cook) is significant for AI governance because the LLM Gateway, the sandbox, the GenAI Software Registry, the Data Classification Framework implementation, and cybersecurity infrastructure all sit in ITS post-split, while the AI LibGuides, library research consultation services involving AI tools, and CITL's administrative housing remain in Arts and Libraries. SMART, the AI Tutor Project, the AI@Lehigh Summit, and faculty AI office hours span both units operationally. The reorganization is fresh enough that the operational ownership of several jointly-built AI assets is not yet clearly redrawn in public sources.

Architecture in summary: one Provost-appointed Advisory Group (chaired by Reihman, Provost-and-Finance dual-reporting); three operational arms (OEIA/CITL/ITS); one separate research-side stem (VPR); one public portal (ai.lehigh.edu); one Core Implementation Team for cross-functional coordination. The structure is centralized enough that an institutional AI question can typically be routed to a single named owner, and decentralized enough that the colleges retain autonomy over their own AI teaching and research priorities.

II. Policy Infrastructure & Institutional Alignment

Lehigh's AI policy infrastructure consists of five publicly posted artifacts as of the snapshot date, with one historical artifact referenced but not directly archived:

1. The original AI policy (2023). Referenced in a November 2025 Brown and White article as having been "announced by Provost Nathan Urban" in 2023 and described as outlining ethical use, academic integrity, and responsible handling of sensitive information. The 2023 policy text itself is not archived under ai.lehigh.edu, and the citation chain from the 2023 policy to the January 2026 *Principles, Policies and Expectations* is not made explicit in current sources, a documentation gap flagged in Unit 7's Gaps and Observations section.

*2. Principles, Policies and Expectations for AI at Lehigh*** (January 14, 2026). Five guideposts: Foster Innovation and Exploration; Uphold Academic Integrity and Policy Requirements; Promote Ethical and Responsible Use; Empower Our Community through Education and Dialogue; and Cultivate Collaboration and Community.

*3. Guiding Principles for Artificial Intelligence** (*revised draft, early 2026*). *Reorganizes the framework around five new themes: aligning AI adoption with mission and the A Lehigh for Everyone* strategic priority; keeping people and human relationships at the center; educating the community to understand, use, and evaluate AI; innovating with AI where it improves learning and work; and using AI lawfully,*

ethically, and securely. The revised draft was opened for community comment via an SSO-authenticated, anonymized survey, and the comment period closed on February 28, 2026. The revised principles explicitly state that they are not a fixed policy or one-size-fits-all mandate but shared guideposts intended to support local, discipline-appropriate conversations while reducing ambiguity. A note on the original page confirms that, in spring 2026, leadership will circulate an updated draft for discussion, finalization, and approval to replace the existing principles. The principles documents are a moving target rather than a static artifact.

*4. **Guidance: Generative AI and Human Subjects Research***** issued by the Office of the Vice Provost for Research. Sets specific expectations for IRB applications involving AI, including: de-identification before AI use; metadata removal (file names, geolocation, timestamps); disclosure to participants in the consent process and to the scientific community in publications and presentations; verification of conclusions derived from AI; replicability of AI-using methods; restrictions on AI as an interpreter substitute (AI translations of study materials must be verified by a human translator, with certification required for greater-than-minimal-risk research); and tying acceptable AI tool selection to the Lehigh contracted services list, with services acceptable for Class II data permitted in human subjects research upon IRB approval. This is the only Lehigh policy document that addresses generative AI directly with operational specificity. Unit 9 documents the guidance in full.

*5. **CITL Guidance for Faculty on Generative AI in the Classroom***** with three model syllabus statements: (a) full integration, (b) limited or assisted use with citation, and (c) prohibited use. The page also documents the institutional history of Lehigh's Turnitin AI detection decision (covered in Section V).

Underlying frameworks that govern AI use at Lehigh but were not authored as AI documents:

- **Data Classification Framework** administered by the Office of Institutional Data, with four classes: Class I (Public), Class II (Internal), Class III (Restricted), and Class IV (Critical). Class I and certain Class II data may be used with standard generative AI tools. Class III and Class IV data — including Social Security numbers, student records covered by FERPA, and export-controlled information — may not be submitted to generative AI tools unless a specific Business Associate Agreement is in place with the vendor. These restrictions are tied to Lehigh's Acceptable Use of Computing Systems Policy.
- **Research Misconduct Policy** finalized and effective January 1, 2026, replacing the prior policy through a formal review process that included faculty consultation. The publicly posted policy and FAQs do not specifically address generative AI use in research products, fabricated data produced by generative tools, or undisclosed AI authorship. Whether the policy will be interpreted to cover these situations through existing categories (fabrication, falsification, plagiarism) or whether the office will issue supplementary guidance is not stated in publicly available materials.
- **Acceptable Use of Computing Systems Policy** that any AI use at Lehigh must satisfy regardless of the AI-specific principles.
- **Financial Conflict of Interest in Research and Sponsored Programs Policy**, requiring disclosure from each individual responsible for the design, conduct, or reporting of research,

with annual COI disclosures filed through the Lehigh Integrated Research Administration (LIRA) system.

Strategic alignment. The *Inspiring the Future Makers* strategic plan, launched under President Joseph J. Helble '82 with Year One starting in fall 2023, includes "Ensure Lehigh and its graduates are AI ready" as one of the explicit Year Three priorities articulated at the November 2025 Town Hall. AI Readiness is positioned as a workforce-relevant student-preparation priority rather than a research-investment priority — Provost Urban has framed Lehigh's posture as building "applied fluency with AI, not model building," aligned to employer expectations for graduates. The strategy commits to doubling Lehigh's research footprint and funding within a decade, but AI is not named as a designated research priority alongside the three URC themes.

III. Teaching & Learning Posture

Lehigh's institutional teaching posture on AI is articulated through three integrated programs and one credential:

The AI Readiness initiative (Provost-led, Packer as operational lead, OEIA-administered) is the umbrella under which the AI Tutor Project, the GEM program, the SMART community of practice, faculty AI office hours, and the syllabus options framework are organized. AI Readiness is positioned as the institution's response to the workforce expectation that graduates will be "AI fluent" — capable of using AI effectively and ethically in their professional contexts — rather than as a program for training AI engineers or model builders. Unit 7 documents the AI Readiness portfolio.

The AI Tutor Project is a faculty-development cohort effort that recruited 35 faculty across the colleges in its 2025 cohort to design and pilot AI-tutored learning experiences in their courses. The full 35-faculty cohort by college has not been enumerated in available public sources. Packer and Reihman are the named co-contacts for faculty interested in participating.

The Generative AI Exploration Module (GEM) is CITL's structured introduction to generative AI for faculty and staff, delivered in cohort format and tied to subsequent peer-learning communities under SMART. CITL also runs faculty AI office hours weekly during the academic year.

SMART (Sharing and Modeling AI for Research and Teaching) is the institution's faculty community of practice on AI use in teaching and research, co-delivered by CITL and LTS staff, and described as the operational continuation of the work begun in the AI@Lehigh Summits.

The Certificate in Artificial Intelligence and Learning Analytics, housed in the Teaching, Learning and Technology program in the College of Education, is a 4-course (12-credit) graduate certificate that "prepares teachers, learning designers, and instructional technologists to work with artificial intelligence (AI) and learning analytics in their professional contexts." All classes are offered online and can be taken in a flexible sequence, culminating in a capstone course in which students design and implement their own AI integration. **The Certificate is the only standalone AI-titled**

credential offered by any Lehigh college in available sources. Unit 5 documents the Certificate in full.

The employer demand evidence base. In summer 2025, the Center for Career & Professional Development (CCPD) conducted qualitative outreach with fifteen employers across industries and published the findings as *Employer Expectations for AI Fluency: Strategic Insights from Lehigh's Employer Partners*. The report's central findings — AI literacy as a baseline expectation rather than a bonus skill, ethical AI use as a hiring signal, and AI readiness demonstrable without a technical background — are the most direct public evidence behind the employer-expectations framing that runs through Provost Urban's "applied fluency" positioning and the AI Readiness initiative. The study's findings informed the design of AI Ready, CCPD's scaffolded Beginner, Intermediate, and Advanced learning pathways on LinkedIn Learning. Unit 7 documents the study and the pathways in full.

College-level AI teaching commitments vary substantially across the seven colleges and academic units:

- **The College of Business** has run two consecutive Year of Learning AI themes: 2024-25 *Generative AI in Business* and 2025-26 *AI at Work*. These themes structure college-wide programming including the AI in Business Research Lab co-directed by Michael Rivera (Director of the DATA Program), Mehmet Eskici (Visiting Professor), and Charles Arhin (Visiting Professor and AI for Business co-director). The two consecutive AI themes are the most explicit college-wide AI commitment by any Lehigh college as of the snapshot date. Unit 3 documents the College's AI portfolio.
- **The P.C. Rossin College of Engineering** carries the largest AI/ML research and teaching footprint by faculty count, anchored by the Department of Computer Science and Engineering (Brian Davison, Chair), the Industrial and Systems Engineering department (Frank E. Curtis, Luis Nunes Vicente), and the cross-departmental AI Initiative for Resilience and Learning (AIRL) lab. CSE 308/BIOE 308 *Genomics* and CSE 310/BSTA 310 *Assistive Technologies* are AI-relevant cross-listed courses with the College of Health. Unit 1 documents the Engineering portfolio.
- **The College of Health** carries explicit AI mandates in its Forlenza Endowed Chair in Health Innovation and Technology (\$5M endowment, held by Vinod Namboodiri), three open AI-related faculty positions, the Health Data Warehouse (Bilal Khan, Director), Thomas McAndrew's NSF IHBEM grant work and DECISIONCAST clinical decision-support tool, and BSTA 0001 as a foundational course. Unit 4 documents the Health portfolio.
- **The College of Arts and Sciences** carries 13 of the 26 contributors to the 2024 Lehigh AI Future Maker Strategy Grant program — the largest single college contribution. CAS is also home to Haiyan Jia (founding GenAI Advisory Group member), Dominic Packer (Vice Provost), and the broader research and teaching activity in Psychology, Cognitive Science, Journalism and Communication, Mathematics, and Biological Sciences. Unit 2 documents the CAS portfolio.

- **The College of Education's** AI activity is concentrated in the Teaching, Learning and Technology program, anchored by Zilong Pan, Tom Hammond, Alec Bodzin, and Shan Li (50/50 joint appointment with the College of Health). Unit 5 documents the COE portfolio.

Cross-college coordination. The Lehigh AI Strategic Grant program (Future Maker Strategy Grant) funded the *Lehigh AI* digital hub through a fall 2024 call that received 61 proposals and funded 20 with \$300 awards each. The 26 contributors broke down as 15 faculty, 4 staff, 4 undergraduates, and 3 graduate students. College affiliations were 13 from the College of Arts and Sciences, 3 from the College of Engineering, 3 from the College of Business, 3 from the College of Education, 2 from the College of Health, and 2 from Library and Technology Services. The Lehigh AI program is co-led by Justin Greenlee (CITL/LTS), Haiyan Jia (CAS Journalism and Communication), Zilong Pan (College of Education, Teaching Learning and Technology), and Greg Surovcik (College of Business, Decision and Technology Analytics). The four-college co-lead structure is the clearest institutional signal that AI teaching at Lehigh is treated as a cross-college coordination problem rather than as a single-college responsibility.

IV. Tool Ecosystem & Procurement Governance

Lehigh's AI tool ecosystem is the most operationally distinctive element of its institutional AI footprint. The ecosystem consists of three layers: institutional contracted tools, the Lehigh-built LLM Gateway, and a vendor inventory mechanism.

Institutional contracted AI tools available to Lehigh users through ai.lehigh.edu include:

- **Google Gemini** and the broader Google Workspace AI suite via Lehigh accounts. Gemini is the recommended starting tool for users new to generative AI, reflecting what Lehigh has called its "Gemini-first AI strategy" anchored in the Google AI for Education Accelerator partnership.
- **NotebookLM** (Google's AI research and writing assistant for synthesizing source documents).
- **Gems** (customizable specialized versions of Gemini).
- **AI Studio** (Google's developer-facing AI tooling).
- **DataCamp DataLab** for AI-powered data analysis training.
- **Keenious** (AI-powered scholarly article discovery).
- **Adobe Firefly AI** (available in the LTS Digital Media Studio).

The Lehigh LLM Gateway is a LibreChat-based interface providing all Lehigh faculty and graduate students with free access to multiple commercial large language models within a single interface: OpenAI's GPT family, Anthropic's Claude, Perplexity, and Google Gemini. Free access for all faculty and graduate students was announced in December 2025. Users do not need to sign up separately. The Gateway is positioned as an addition to the suite of Google AI tools available to all campus users. The LLM Gateway is funded in significant part by a gift from the H.S. Lee Family Foundation in collaboration with Hyo Sang Lee MS'76 PhD'80 (see Section VIII). The Gateway is the single most operationally distinctive element of Lehigh's AI tool stack — multi-model access in a single interface,

free for faculty and graduate students, sourced from a private gift specifically for AI Readiness, is not a common configuration at peer institutions.

The LTS sandbox uses the OpenAI API directly with the explicit guarantee that submissions are not used for model training. The sandbox is the bridge between users who need OpenAI capabilities and the data classification framework that prohibits Class III and IV data from being submitted to commercial AI tools. Unit 8 documents the sandbox in full.

The GenAI Software Registry is LTS's vendor inventory mechanism, used to track AI tools and AI features in software already in use across campus. The registry is the procurement-side mechanism for understanding institutional AI exposure across the vendor ecosystem.

Procurement governance is administered jointly by the Office of Institutional Data (data classification), LTS (vendor evaluation, sandbox operation, contracted tool selection), the Office of the General Counsel (Business Associate Agreements for Class III/IV data work), and the Provost's Core Implementation Team for AI (cross-functional coordination on rollouts). The Data Classification Framework is the single most consequential document governing what tools may be used with what data: Class I and certain Class II data may go to standard generative AI tools; Class III and IV data may not, except under specific BAAs.

Approved AI services list opacity. The IRB AI guidance refers to "a selection of contracted AI services" Lehigh offers and to services "acceptable for Class II data," but the list itself is not posted as a standalone artifact on the VPR site. Researchers wanting to know which specific tools they can use in human subjects research must infer the answer from the LTS tool inventory. A consolidated list maintained jointly by the VPR office and LTS would close this documentation gap.

V. Academic Integrity Integration

Lehigh's academic integrity posture on AI is anchored in two distinctive choices that depart from the institutional norms in U.S. higher education.

The Turnitin AI detection opt-out. LTS made the decision not to license Turnitin's AI detection add-on. The decision history is documented on the CITL faculty guidance page: instructors had access to Turnitin's AI detection during the spring and fall 2023 semesters as part of Lehigh's standard Turnitin license. When Turnitin moved AI detection to a separate license model in spring 2024, LTS evaluated the AI content checker, expressed concern about false positives, and decided not to pursue the add-on. Lehigh has continued to opt out through the 2025-26 academic year. The framing — that detection tools undermine student-teacher trust and have unacceptable false-positive rates — has been consistent across LTS and CITL communications. This is a publicly stated, institutionally documented choice rather than a procurement omission, and it constitutes the most distinctive academic-integrity-side AI signal in Lehigh's public record.

The three syllabus options. CITL's faculty guidance recommends instructors directly address generative AI in syllabi, assignment prompts, and course materials, and provides three model syllabus statements: (a) full integration, in which AI use is expected and encouraged; (b) limited or assisted use with citation, in which specific AI uses are permitted with disclosure; and (c) prohibited use, in which

AI is not permitted in the assignment. The three options frame AI use as a course-design decision delegated to the instructor rather than a centrally mandated policy. The framework is consistent with the institutional principles' commitment to "shared guideposts intended to support local, discipline-appropriate conversations" rather than a one-size-fits-all mandate.

Academic integrity policy vs. Research integrity policy. Lehigh's academic integrity framework for student work and its research integrity framework for faculty research are governed by distinct policies and offices. The student-facing academic integrity policy is administered by the Office of Student Conduct and Community Expectations and applies to coursework and student academic activity. The Research Misconduct Policy effective January 1, 2026, administered by the Office of Research Integrity, applies to faculty and staff research products. Neither policy specifically addresses generative AI scenarios as of the snapshot date — both rely on existing categories (cheating, fabrication, falsification, plagiarism) and on the syllabus-level disclosure framework for case-by-case interpretation. Whether the institution will issue supplementary guidance on AI-specific scenarios is not stated in public materials.

The Code of Conduct. Lehigh's Code of Conduct does not mention AI directly as of the snapshot date. The Acceptable Use of Computing Systems Policy that any AI use must satisfy is the institutional behavioral baseline that catches AI use in its broader scope.

VI. Research Governance & Ethics

Lehigh's research governance structure is centered in the Office of the Vice Provost for Research under Anand Jagota, with the Institutional Review Board (IRB), the Institutional Animal Care and Use Committee (IACUC), and the Conflict of Interest in Research Committee (CIRC) administered through Research Integrity. Unit 9 documents the structure in full.

The IRB AI guidance is the institution's only AI-specific research governance artifact. The guidance addresses six specific expectations for IRB applications involving generative AI, summarized in Section II above. The Class II data reference and the contracted-services framing connect the IRB guidance directly to the LTS-administered tool ecosystem documented in Section IV — Lehigh has built a single tool-eligibility chain that runs from data classification through ITS/LTS contracting to research compliance, with the IRB acting as the case-by-case approval authority for human subjects work that uses AI.

The Research Misconduct Policy effective January 1, 2026 is silent on AI-specific scenarios. The policy went through formal faculty review before adoption. As of the snapshot date, the office has not issued supplementary guidance on AI-specific misconduct scenarios. Unit 9 flags this as a documentation gap.

Internal seed funding for research runs through three discretionary tiers administered by ORSP: Faculty Innovation Grants (FIG, up to \$35,000), Collaborative Research Opportunity (CORE) Grants (up to \$70,000), and Accelerator Grants (up to \$250,000 over two years). All three are funded in part by the Smith Fund for Research and Innovation in Science and Engineering and in part by university funds. As of June 9, 2025, the FIG program is on hold, and the broader internal grants pause is

documented across the program pages. The office announced two replacement programs in 2025 — including the Fund for Proposal Development at \$20,000 — that are sized for grant-writing support rather than substantive seed research. None of the FIG, CORE, or Accelerator awards have been publicly designated as AI-themed, and the office has not announced an AI-specific internal seed call. Unit 9 documents this in full.

External research funding for AI flows through the colleges and through the cross-college research institute structure rather than through a centrally designated AI program. Notable AI-relevant external awards include:

- **The Health Data Warehouse** infrastructure work (Bilal Khan, Director) and Thomas McAndrew's NSF IHBEM grant (College of Health, documented in Unit 4).
- **Vinod Namboodiri's NSF accessibility research portfolio**, including the MABLE Strategic Research Translation Project (documented in Units 4 and 9).
- **DECISIONCAST** clinical decision-support translation work led by McAndrew and supported through the Research Translation AcceLURator (documented in Units 4 and 9).
- **The CCMR catastrophe modeling portfolio**, including Maryam Rahnemoonfar's AI-Driven Damage Assessment project under the CERCat consortium, the NSF IUCRC planning grant (which explicitly cites machine learning as a team strength), and the Bocchini-led wildfire risk assessment work (documented in Units 1, 6, and 9).
- **Brook Sawyer's nearly \$2 million IES Development and Innovation Research Grant for Parents Plus** in the College of Education (documented in Unit 5; not centrally AI-themed but technologically related).
- **The Bodzin/Hammond/Pan/Fu RiVR Faculty Research Grant** for headset VR-based learning experiences (documented in Unit 5).

The **University Research Center (URC) designation** is the office's flagship research-investment instrument. URCs receive institutional funding and infrastructure commitment, with affiliated faculty expected to invest at least 50% of their research effort in the center. Three URCs have been designated as of the snapshot date: the **Center for Catastrophe Modeling and Resilience (CCMR)** under Paolo Bocchini (established 2024 as Lehigh's first URC, originating from a research initiative within I-DISC); the **Center for Community-Driven Assistive Technologies (CDAT)**; and the **Center for Advancing Community Electrification Solutions (ACES)**. AI is not designated as a URC theme. AI surfaces inside the URC structure as a method (CCMR's AI-driven damage assessment, CDAT's accessibility AI work) rather than as a research focus area in its own right. Unit 9's Gaps and Observations section discusses the structural implications.

The Research Translation AcceLURator (RTA) funded by a four-year, \$6 million NSF Accelerating Research Translation award (John Coulter, PI and Associate Vice Provost for Research Translation) is the office's primary translation-funding instrument. Five Strategic Research Translation Projects have been supported since the program's February 2024 inception. The most explicitly AI-

focused RTA project is McAndrew's DECISIONCAST translation work. Unit 9 documents the RTA in full.

VII. Library & Information Literacy Signals

The Lehigh Libraries (now under the Arts and Libraries division after the April 2026 reorganization, led by Vice Provost Greg Reihman) carry a distinct AI footprint that operates alongside the LTS/ITS tool ecosystem.

The Lehigh AI LibGuide is the libraries' generative AI research guide, "tailored for academic research" and "designed for students and researchers seeking information-literacy-informed approaches to exploring AI's applications." The LibGuide is referenced from ai.lehigh.edu as the canonical library-side AI resource. The specific URL of the LibGuide and the curator's name are not surfaced in available search results — Unit 8 flags this as a chase item.

Library subject librarian AI involvement. Elizabeth Young Miller (Social Sciences subject librarian) served on the *Using AI in Teaching and Learning at Lehigh* panel at the 2nd Annual AI@Lehigh Summit on January 13, 2026, representing the library instruction perspective alongside teaching faculty from CAS, Engineering, Health, and Education. Her presence on the panel signals the integration of library information literacy work with the AI Readiness initiative.

Library research consultation services involving AI tools, Special Collections AI programming, and the AI LibGuide are all administered through the Arts and Libraries division post-reorganization, while the institutional AI tooling (LLM Gateway, sandbox, GenAI Software Registry) sits in ITS. The library-side AI work is therefore organizationally separated from the tool-stack-side AI work, with both reporting up through Reihman's two roles bridging the structures (he was the founding director of CITL 2013-2022, Vice Provost for LTS 2020-2026, and Vice Provost for Arts and Libraries from April 2026).

The XR Lab at the E.W. Fairchild-Martindale Library Computing Center launched in spring 2023 as a student-centered space for hands-on extended-reality development work, supporting the library-side immersive technology footprint that intersects with AI and VR research in the College of Education (Bodzin/Hammond/Pan RiVR work) and the College of Engineering.

VIII. Infrastructure & Strategic Investment Signals

Lehigh's AI-relevant infrastructure investments cluster in four areas:

1. High-Performance Computing — Sol and Hawk. LTS Research Computing operates the Sol and Hawk high-performance computing clusters that serve as the compute backbone for Lehigh research. According to the LTS 2024-2025 Annual Report, the two clusters delivered 27 million core hours on a shared platform during the year. Hawk delivered 1.8 million core hours to Lehigh researchers and contributed an additional 3.5 million core hours to the Open Science Grid. Faculty condo investors who helped build Sol consumed 22 million core hours. More than 50 research groups and courses with 450 unique students and faculty used HPC resources during the year. The Hawk cluster supported six courses with traditional HPC and Jupyter Notebooks delivered through the

Open OnDemand web portal. Ceph storage systems provided 500 TB of usable storage to researchers and staff. The HPC infrastructure is the foundation for AI and machine learning research at Lehigh and is treated more fully in Unit 6 (I-DISC) and Unit 1 (Engineering).

2. The H.S. Lee Family Foundation gift. A gift in late 2025 from the H.S. Lee Family Foundation in collaboration with Hyo Sang Lee MS'76 PhD'80 funds the LLM Gateway expansion (free access for all Lehigh faculty and graduate students) and an AI prize incentivizing graduate students to design breakthrough AI applications. The named purpose of the gift is to propel Lehigh's AI Readiness initiative forward and to position Lehigh as a recognized leader in AI by supporting effective and ethical use of these tools by students. The gift is the single largest publicly documented private investment in Lehigh's institutional AI infrastructure.

3. The Forlenza Endowed Chair in Health Innovation and Technology (\$5 million endowment, held by Vinod Namboodiri) carries an explicit AI mandate as part of the chair's terms and is the largest single endowed faculty position with documented AI focus at Lehigh. Unit 4 documents the chair in full.

4. R1 research designation and the doubling commitment. Lehigh was designated R1 by the Carnegie Classification of Institutions of Higher Education in February 2025, recognizing FY2023 expenditures of \$56.3 million and 94 doctorates awarded. FY2024 sponsored program expenditures reached \$58.7 million. The *Inspiring the Future Makers* strategy commits to doubling Lehigh's research footprint and funding within a decade. Sponsored program expenditures grew from \$40 million in fiscal year 2021 to \$58.7 million in fiscal year 2024 (47% three-year growth), and President Helble has stated that annual research expenditures grew 55% over four years. Lehigh is the only R1 institution in the Lehigh Valley, one of seven in Pennsylvania, and one of 187 nationwide.

5. CSE faculty searches in ML/AI and Robotics. The 2025-26 academic year recruitment cycle in the Department of Computer Science and Engineering includes specific faculty searches in machine learning, AI, and robotics, signaling continued institutional investment in the AI-research faculty pipeline. Unit 1 documents the searches in full.

6. The TRIPODS Institute for Optimization and Learning (NSF award #1740796), led by Engineering faculty (Curtis, Vicente), is the most concrete federal Phase I investment in Lehigh's optimization-and-learning research capacity and is the seed of the broader I-DISC research portfolio. Unit 1 and Unit 6 document the TRIPODS Institute in full.

7. The October 2025 Future Maker Grants for AI Enhancement. A separate Future Maker Grant program from the Office of Strategic Planning and Initiatives (OSPI), distinct from the 2024 Lehigh AI Strategic Grant program described in Section III. The October 2025 round, announced at the November 2025 Town Hall, funded operational AI applications in administrative units rather than teaching or research projects. Awardees included: A Conversational AI for Unlocking Institutional Data (Kimberly Williamson); AI Enhancement for Contract Review Process — Lehigh University Contracts Intelligent Assistant (Heather Stoelzl, James Monek); Generative AI Tool for a Consistent Brand Voice (Audra Berner); Individual Development Plan Assistant Chatbot (Kate Arrington); Office of International Affairs AI Enhancement Proposal (Jessica Kingston); and Supporting Student-

AI Collaborative Intelligence in College-Level Mathematics Education (Zilong Pan). The two Future Maker Grant programs (the 2024 Lehigh AI Strategic Grant and the October 2025 AI Enhancement Grant) are administered by OSPI under VP Mark Erickson, not by the Office of Research, and are documented in Unit 7.

IX. Public Statements & Executive Signaling

Lehigh's public AI communications converge on three voices and two recurring framings.

President Joseph J. Helble '82 addressed AI at the November 10, 2025 Town Hall, stating that AI should free more time for "the deeply human parts of our work" and emphasizing thoughtful adoption with attention to privacy, ethics, safety, potential negative consequences, and sustainability — including the energy footprint of AI data centers. Helble has framed AI in his public communications as a mission-aligned tool to be adopted carefully rather than as a transformative technology to be embraced unconditionally, and his framings are consistently coupled with his broader strategic message about Lehigh's research growth and R1 trajectory.

Provost Nathan Urban has framed Lehigh's posture in public communications as building "applied fluency with AI, not model building," aligned to employer expectations for graduates. Urban delivered opening remarks at the 2nd Annual AI@Lehigh Summit on January 13, 2026, and at the November 2025 Town Hall articulated AI fluency (rather than AI engineering) as the workforce-relevant skill for Lehigh graduates. Urban is the official who chartered the Generative AI Advisory Group in January 2025 and is the strategic owner of the AI Readiness initiative.

Vice Provost Dominic Packer is the most consistent public voice on the institutional AI principles. He closed the AI segment of the November 2025 Town Hall with an overview of the draft principles, framing them as "high-level guideposts" rather than rules, and stated: "These principles are a living document. They are meant to evolve. We want AI to amplify, not diminish, what makes Lehigh Lehigh." Packer chaired the *Using AI in Teaching and Learning at Lehigh* panel at the 2nd Annual AI@Lehigh Summit and delivered opening remarks alongside Reihman.

Vice Provost Greg Reihman is the operational voice on AI tooling and the public lead on Google AI for Education Accelerator framing. He spearheaded the partnership for the University, which placed Lehigh in the first cohort of institutions in the Google AI for Education Accelerator. He chaired the Generative AI Advisory Group and organized the inaugural AI@Lehigh Summit on January 9, 2025.

Two recurring framings appear across all four executive voices:

- **AI fluency as workforce preparation, not AI engineering as research priority.** All four voices consistently frame AI at Lehigh as a student-preparation problem ("AI ready" graduates) rather than as a research-investment priority. AI is not named alongside catastrophe modeling, accessibility, and electrification as a designated research focus area, and AI Research has not been given URC status.
- **Principles as guideposts, not mandates.** All four voices consistently frame the institutional principles as living documents intended to support local, discipline-appropriate

conversations rather than centrally enforced policy. The phrasing "shared guideposts" appears across the principles documents, the Town Hall framing, and the Summit panel framings.

Other documented executive AI statements: Reihman appeared on the April 2023 iLUMinate podcast episode *The Impact of AI on Universities and Students* with Catherine Ridings (then DATA faculty, now Emerita), one of the earliest public Lehigh executive engagements on AI and the only documented podcast appearance of a sitting vice provost specifically on AI.

X. Evidence Archive

This section catalogs the principal public documents that anchor the institutional AI inventory. The Evidence Archive is not a complete bibliography — full source listings live in each unit dossier and in this section's own citations — but it identifies the most consequential public artifacts that future researchers should consult to verify or extend the inventory.

Governance documents:

- *Generative AI Advisory Group Final Report*, May 9, 2025 — the founding governance document
- *Principles, Policies and Expectations for AI at Lehigh*, January 14, 2026 — original principles
- *Guiding Principles for Artificial Intelligence*, draft early 2026 — revised principles open for community comment through February 28, 2026
- *Guidance: Generative AI and Human Subjects Research*, Office of the Vice Provost for Research — IRB AI guidance
- *CITL Guidance for Faculty on Generative AI in the Classroom* — three syllabus options and Turnitin opt-out documentation
- Data Classification Framework, Office of Institutional Data — the underlying data-governance document that AI policy depends on
- Acceptable Use of Computing Systems Policy — the institutional behavioral baseline
- Research Misconduct Policy effective January 1, 2026

Strategic documents:

- *Inspiring the Future Makers* strategic plan
- Year Three Annual Roadmap (academic year 2025-26)
- Community and Economic Impact Report (\$1.4 billion annual impact figure)

Tool ecosystem documentation:

- ai.lehigh.edu portal — central public hub for all AI resources
- LLM Gateway documentation (LibreChat-based, multi-model)
- LTS sandbox documentation (OpenAI API, no model training)
- GenAI Software Registry (vendor inventory)
- Google AI for Education Accelerator partnership announcement (September 2025)

Event documentation:

- AI@Lehigh Summit 2025 page (inaugural summit, January 9, 2025)
- AI@Lehigh Summit 2026 page (second annual summit, January 13, 2026, with recordings and panelist resources)
- November 2025 Town Hall coverage (Helble, Urban, Packer remarks)

Funding announcements:

- H.S. Lee Family Foundation gift announcement (late 2025)
- 2024 Lehigh AI Future Maker Strategy Grant program documentation (61 proposals, 20 funded, 26 contributors)
- October 2025 Future Maker Grants for AI Enhancement awardee list
- NSF Accelerating Research Translation award documentation (RTA, \$6M, John Coulter PI)
- NSF TRIPODS Institute award documentation (#1740796)

College and unit-level documentation is catalogued in each unit dossier's Sources section. The most consequential college-level artifacts include the College of Business Year of Learning AI program pages, the College of Education Certificate in Artificial Intelligence and Learning Analytics catalog entry, the I-DISC affiliated faculty roster, the Health Data Warehouse documentation, the CCMR/CERCat consortium pages, and the LTS Annual Reports (most recently 2024-2025).

The most consequential single document for understanding Lehigh's AI posture is the Generative AI Advisory Group Final Report (May 9, 2025), because it captures the institutional moment when AI governance was formally chartered, identifies the founding governance personnel, and anchors the principles documents that have evolved from it. The most consequential single ongoing artifact is the ai.lehigh.edu portal, because it is the only Lehigh-published location that consolidates principles, tools, projects, events, and policies under one URL and is the canonical entry point for community members navigating Lehigh's AI ecosystem.

Sources

Office of the Provost — *Generative AI @ Lehigh* institutional reports hub linking to the Generative AI Advisory Group Final Report and the two separately published 2025 Generative AI Survey instruments (Faculty and Staff)

<https://provost.lehigh.edu/institutional-reports/generative-ai-lehigh>

Generative AI Advisory Group Final Report (May 9, 2025) — recommendations on AI literacy, faculty development, tool governance, founding membership, and Reihman as Chair

<https://provost.lehigh.edu/sites/provost.lehigh.edu/files/Lehigh-Gen%20AI%20Advisory%20Group%20Report%205-9-2025.pdf>

AI@Lehigh Summit 2026 page — second annual summit (January 13, 2026), agenda, panelist roster including Packer (chair), Jia, McIntosh, Young Miller, O'Keeffe, Pan, Rovella, Sivakumar

<https://lts.lehigh.edu/aihigh-summit-2026>

LTS — *About the April 2026 Reorganization* and ongoing operational ownership of the LLM Gateway, sandbox, GenAI Software Registry, and CITL administrative reporting line

<https://lts.lehigh.edu/about>

Artificial Intelligence at Lehigh — central institutional AI portal consolidating principles, tools, projects, events, policies, and AI LibGuide

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

Office of the Vice Provost for Research — VPR home page, structure, and reporting relationships including ORSP, Research Integrity, OTT, and Postdoctoral Affairs

<https://research.lehigh.edu>

LTS Annual Report 2024-2025 — Provost's Core Implementation Team for AI membership including Key, O'Brien Knotts, and Anderson; Sol and Hawk HPC clusters with 27 million core hours total, 1.8 million Hawk core hours to Lehigh researchers, 3.5 million additional core hours contributed to Open Science Grid, 22 million Sol core hours to faculty condo investors, 50+ research groups and 450 unique users, six courses on Hawk via Open OnDemand, and 500 TB Ceph storage

<https://lts.lehigh.edu/lts-2024-2025-annual-report>

Lehigh expands AI use through training, grants — The Brown and White, November 14, 2025, including reference to the 2023 AI policy announced by Provost Urban

<https://thebrownandwhite.com/2025/11/14/lehigh-expands-ai-use-through-training-grants/>

Principles, Policies and Expectations for AI at Lehigh and *Guiding Principles for Artificial Intelligence* — the original AI principles document dated January 14, 2026 with five guideposts, and the revised draft with five new themes that was opened for SSO-authenticated community comment through February 28, 2026 and subsequently published to the same page, which notes that an updated draft will circulate in spring 2026 for finalization and approval

<https://ai.lehigh.edu/principles>

Guidance: Generative AI and Human Subjects Research — VPR's primary AI policy artifact, addressing IRB applications, de-identification, consent disclosure, AI translation limits, and approved Lehigh contracted AI services for Class II data

<https://research.lehigh.edu/policies-guidance-forms/guidance-generative-ai-and-human-subjects-research>

CITL — *Guidance for Faculty on Generative AI in the Classroom* — three syllabus options (full integration, limited or assisted use with citation, prohibited use) and the Turnitin AI detection opt-out decision history (spring 2024 evaluation, false-positive concerns, ongoing opt-out through 2025-26)

<https://its.lehigh.edu/citl-guidance-faculty-generative-ai-classroom>

Office of Institutional Data — Data Classification Framework with four classes (I Public, II Internal, III Restricted, IV Critical) and the AI tool eligibility chain

<https://oid.lehigh.edu/data-classification>

Office of Research Integrity — Research Misconduct Policy effective January 1, 2026, and FAQs

<https://research.lehigh.edu/policy-research-misconduct>

Lehigh Advances Into Year Three of Its Strategy With a Focus on Sustaining Success — Helble Town Hall November 2025 covering R1, 50% increase in research expenditures, doubling research footprint goal, AI Readiness as a Year Three priority, Helble's "deeply human" framing, Urban's AI fluency framing, and Packer's draft AI principles overview

<https://news.lehigh.edu/lehigh-advances-into-year-three-of-its-strategy-with-a-focus-on-sustaining-success>

Lehigh College of Education — *Certificate, Artificial Intelligence and Learning Analytics* — 4-course (12-credit) graduate certificate housed in the Teaching, Learning and Technology program, fully online with capstone

<https://ed.lehigh.edu/academics/certificates/certificate-artificial-intelligence-and-learning-analytics>

College of Business — *Lehigh Business Magazine* Issue 11 (2025-26) *AI at Work*, the cover theme for the 2025-26 Year of Learning, following the 2024-25 theme *Generative AI in Business* (Issue 10), and documenting the AI in Business Research Lab

<https://business.lehigh.edu/news/lehigh-business-magazine/issue-no-11-2025-2026/aiwork>

LTS — *Launch of Lehigh AI in The Preserve and call for new proposals* — describes the 2024 Future Maker Strategy Grant Lehigh AI program with 61 proposals, 20 funded at \$300 each, 26 contributors broken down as 15 faculty, 4 staff, 4 undergraduates, and 3 graduate students, and the four-college co-lead team (Greenlee, Jia, Pan, Surovcik)

<https://its.lehigh.edu/news/launch-lehigh-ai-preserve-and-call-new-proposals>

LTS news — *Free Access to Enhanced AI Tools for Lehigh Faculty and Graduate Students* (December 2025), announcing free LLM Gateway access via the LibreChat-based multi-model interface (OpenAI, Anthropic, Perplexity, Google)

<https://its.lehigh.edu/news/free-access-enhanced-ai-tools-lehigh-faculty-and-graduate-students>

Lehigh's First University Research Center to Focus on Catastrophe Modeling — describes the URC structure, 50% faculty effort commitment, and the establishment of CCMR as the first URC, with CDAT and ACES as the second and third URCs

<https://news.lehigh.edu/lehhighs-first-university-research-center-to-focus-on-catastrophe-modeling>

'XR Learning' Takes Lehigh Students Beyond the Classroom — Lehigh News article on the XR Lab in the E.W. Fairchild-Martindale Library Computing Center launched spring 2023

<https://news.lehigh.edu/xr-learning-takes-lehigh-students-beyond-the-classroom>

Lehigh Alumni news-blog — *Visionary Gift Expands AI Access for Lehigh Faculty and Graduate Students* (late 2025), H.S. Lee Family Foundation gift in collaboration with Hyo Sang Lee MS'76 PhD'80 funding LLM Gateway expansion and AI prize for graduate students

<https://alumni.lehigh.edu/news-blog/visionary-gift-expands-ai-access-lehigh-faculty-and-graduate-students>

Lehigh Named Top-Tier Research Institution by Carnegie — VPR announcement of February 2025 R1 designation, FY2023 expenditures of \$56.3 million, 94 doctorates awarded, 187 R1 institutions nationwide, only Lehigh Valley R1, one of seven in Pennsylvania

<https://research.lehigh.edu/news/2025-lehigh-named-top-tier-research-institution-carnegie>

Office of Strategic Planning & Initiatives — *Future Maker Grants: AI Enhancement* awardee list (October 2025), including Williamson, Stoelzl/Monek, Berner, Arrington, Kingston, and Pan

<https://ospi.lehigh.edu/strategic-plan/future-maker-grants>

Lehigh University joins Google AI for Education Accelerator to expand campus AI learning opportunities — LTS news, September 2025, describes Reihman's leadership on the partnership and Lehigh's "Gemini-first AI strategy"

<https://lts.lehigh.edu/news/lehigh-university-joins-google-ai-education-accelerator-expand-campus-ai-learning>

iLLUminate podcast — *The Impact of AI on Universities and Students* (April 2023), joint episode with Reihman and Catherine Ridings (then DATA faculty, now Emerita)

<https://business.lehigh.edu/blog/2023/impact-ai-universities-and-students>

CCPD report — *Employer Expectations for AI Fluency: Strategic Insights from Lehigh's Employer Partners* (public PDF, six pages), summer 2025 fifteen-employer qualitative outreach, five focus areas including AI literacy as baseline expectation, ethical use as hiring signal, and AI readiness without a technical background

[https://careercenter.lehigh.edu/sites/careercenter.lehigh.edu/files/Employer%20Expectations%20for%20AI%20Fluency%20\(3\).docx%20\(1\).pdf](https://careercenter.lehigh.edu/sites/careercenter.lehigh.edu/files/Employer%20Expectations%20for%20AI%20Fluency%20(3).docx%20(1).pdf)

CCPD AI Ready page — scaffolded Beginner/Intermediate/Advanced LinkedIn Learning pathways designed from the employer study findings

<https://careercenter.lehigh.edu/students/ai-ready>

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. P.C. Rossin College of Engineering and Applied Science

Unit 2. College of Arts and Sciences

Unit 3. College of Business

Unit 4. College of Health

Unit 5. College of Education

Unit 6. I-DISC — Institute for Data, Intelligent Systems, and Computation

Unit 7. Office of the Provost — AI Readiness, CITL, and OEIA

Unit 8. Library and Technology Services — Arts and Libraries and Information Technology Services

Unit 9. Office of the Vice Provost for Research

1.

P.C. Rossin College of Engineering and Applied Science

KEY SIGNALS

Rossin Engineering houses Lehigh's deepest concentration of named AI and machine learning research capacity — the Department of Computer Science and Engineering with 20 tenured and tenure-track faculty plus 10 instructional faculty and active 2025-26 searches for two new tenure-line positions explicitly designated for ML/AI and Robotics, the Industrial and Systems Engineering department whose May 2025 launch of two new courses on AI in industrial engineering and operations research (ISE 366/466 and a non-credit hybrid summer intensive) marks the most explicit AI curriculum expansion at Lehigh in 2025, and a federally-funded research portfolio in computer vision and machine learning documented through specific 2023-2025 NSF, NIH, DOE, PITA, PMFI, PFI, and Qualcomm awards to CSE faculty. The college is also the institutional home of I-DISC and contributes to the AI Readiness initiative through the Provost cluster, with its Dean Stephen DeWeerth having driven the 2016-2018 envisioning process that produced I-DISC and the broader IRI architecture.

The P.C. Rossin College of Engineering and Applied Science offers the Bachelor of Science degree in 17 programs across eight departments and is the largest engineering school at Lehigh. The college is led by Stephen DeWeerth, Lew and Sherry Hay Dean. As of recent U.S. News rankings, Rossin has approximately 107 full-time faculty and a Ph.D. student-to-faculty ratio of 2.8:1. Rossin houses the Department of Computer Science and Engineering, Lehigh's primary computing and AI department, and serves as the administrative home for the Institute for Data, Intelligent Systems, and Computation (I-DISC, documented in Unit 6).

1.1 Governance & Policy

College-Level AI Posture

Rossin does not maintain its own AI governance policy distinct from the institutional Lehigh frameworks documented in Unit 7 (Office of the Provost) and Unit 8 (LTS cluster). Engineering faculty operate under the same Acceptable Use of Computing Systems Policy, Data Classification Framework, and AI Principles that govern the rest of the university. Departmental and individual faculty practice on AI use in coursework follows the three CITL syllabus options (Full Integration, Limited or Assisted Use, Prohibited Use) and is left to instructor discretion under the Provost's explicit non-uniform policy on student AI use.

Faculty Hiring Signals

In fall 2025, the CSE department launched two simultaneous open-rank tenure-line searches with anticipated start dates of July 1, 2026: one for tenured or tenure-track faculty in machine learning and artificial intelligence, and a parallel search for tenure-line faculty in robotics. Tenure on appointment is possible for senior candidates. Successful candidates are expected to develop research programs in machine learning, artificial intelligence, or robotics, and to collaborate with faculty associated with I-DISC and the Institute for Cyber Physical Infrastructure and Energy (I-CPIE). The two parallel ML/AI and robotics searches in a single hiring cycle are the strongest documented Engineering faculty-hiring signal toward AI capacity expansion in available sources.

IRI Participation

Rossin Engineering is the administrative home for all three Lehigh Interdisciplinary Research Institutes: I-DISC (data, intelligent systems, computation), I-CPIE (cyber-physical infrastructure and energy), and IFMD (functional materials and devices). All three were established following Dean DeWeerth's fall 2016 envisioning process and the subsequent April 2018 Provost announcement. Engineering faculty constitute the majority of I-DISC's affiliated faculty roster and are the primary user population for Lehigh's HPC infrastructure (documented in Unit 6 and Unit 8).

Departmental Structure

Rossin Engineering's eight departments are: Bioengineering; Chemical and Biomolecular Engineering; Civil and Environmental Engineering; Computer Science and Engineering; Electrical and Computer Engineering; Industrial and Systems Engineering; Materials Science and Engineering; and Mechanical Engineering and Mechanics. CSE is the principal AI-focused department; ISE is the second-most AI-active through its operations research and machine learning curriculum; ECE, BioE, ME, ChBE, CEE, and MSE all contribute affiliated I-DISC faculty.

1.2 People

Stephen DeWeerth — Dean

DeWeerth is the Lew and Sherry Hay Dean of the P.C. Rossin College of Engineering and Applied Science. He led the fall 2016 Envisioning Process that produced Lehigh's three IRIs and announced the August 2025 leadership refresh across I-DISC, I-CPIE, and IDEAS that brought Héctor Muñoz-Avila back to Lehigh to direct I-DISC.

Brian D. Davison — Department Chair, Computer Science and Engineering

Davison is the Daniel E. '39 and Patricia M. Smith Professor and Department Chair of CSE. He is an NSF Faculty Early CAREER award winner whose research on search, mining, recommendation, and classification problems in text, datasets, and the web has been supported by NSF, NIH, DARPA, Microsoft, Amazon, and Sun Microsystems. He served as senior associate editor of the ACM Transactions on Intelligent Systems and Technology and as associate editor for *Frontiers in Big Data, Data Mining and Management Section*. He spent his most recent sabbatical with the Core Data Science

group at Facebook (Meta). Davison was a founding co-director of Lehigh's interdisciplinary Master's Program in Data Science and the founding director of Lehigh's undergraduate minor in data science. He is a former Associate Director of I-DISC. Office: Room 215, Building C, 113 Research Drive, Mountaintop Campus.

CSE AI and Robotics Faculty

The CSE department's AI and Robotics research group is the most concentrated AI faculty cluster at Lehigh. Faculty whose AI work is documented across departmental research pages and external award listings include:

Mooi Choo Chuah — Professor, CSE; Associate Director of I-DISC. Her research has received Qualcomm Awards in 2024 and 2025 and a 2024 PITA award (with Bharati) for *Mobile Flx Bot Robot for More Flexible and Robust Industrial Inspection*. She works on computer vision and mobile robotic systems.

Aparna Bharati — Assistant Professor, CSE. Recipient of a 2025 PITA award for *Monitoring Health and Well-being through Videos on Edge Devices*; co-recipient with Chuah of the 2024 PITA Mobile Flx Bot award; and a 2025 PFI Major Component Acquisition (PFI MCA) award for *Smart Disaster Response: Leveraging Big Data, Autonomous Systems, and Physics-Informed Models for Rapid Disaster Recovery*.

Lifang He — Faculty in CSE. Holds a 2023 NSF Award (#2319451) for *Collaborative Research: NSC-FO: Dynamic Brain Graph Mining* (MPI), a 2023 NIH R21 Award (R21EY034179) for *Surrogate Augmented Deep Neural Network Learning Toward Precision Medicine* (MPI), and a 2024 DOE Award (DE-SC0025801) for *Harnessing Nonnegative Matrix Factorization for Advanced Computational Materials Modeling* (Co-PI). Recent industrial-grade awards include a 2025 PITA Co-PI position on *Foundry Unified System for Inspection and Optimization of Networks* (FUSION) and a 2025 Pennsylvania Manufacturing Fellows

Initiative (PMFI) award as PI for *AI-Driven Digital Transformation for Semiconductor Manufacturing Systems: Enhancing Operational Efficiency with Machine Learning-Based Image Processing*.

Brian Y. Chen — Faculty in CSE. Teaches and researches in bioinformatics, with a cross-listed CSE 308/BIOE 308 / CSE 408/BIOE 408 *Genomics* course on biological discoveries and computational techniques affecting modern biotechnology, including genome assembly, annotation, and evolution.

Dominic DiFranzo — Faculty in CSE working on human-computer interaction and social computing.

Jeffrey Heflin — Faculty in CSE working on knowledge representation and reasoning, semantic web, and ontologies. Heflin teaches a graduate course on knowledge representation and reasoning that explores the relationship between KR&R and machine learning approaches.

Hank Korth — Faculty in CSE working on databases, information systems, and blockchain.

Roberto Palmieri — Faculty in CSE working on distributed and transactional systems.

Mark Erle — Associate Chair of CSE; teaches Cybersecurity (CSE 298-067) including the mathematical foundations of cryptography, hashing, and security techniques.

Vinod Namboodiri — Faculty cross-appointed in CSE and BSTA (BioStatistics). Teaches CSE 310 / BSTA 310 / CSE 410 / BSTA 410 *Assistive Technologies*, which examines opportunities presented by recent advances in mobile and AI technologies for persons with disabilities.

ISE AI Faculty

Meng Zhao — Assistant Professor, ISE. Tenure-track faculty member focused on high-dimensional analytics and the development of novel methodology with applications to health and transportation systems. Zhao teaches the new non-credit hybrid summer intensive *Embedding AI in Service Systems and Intelligent Operations*, which she developed for the May 2025 ISE AI curriculum launch.

Charalambos Marangos — Associate Teaching Professor, ISE. Specializes in industrial and systems engineering projects with a focus on rigorous modeling, critical evaluation of intelligent systems, and the responsible deployment of AI in complex operational settings. Marangos teaches the new for-credit summer course ISE 366/466 *Artificial Intelligence for Industrial Engineering and Operations Research*.

Luis Nunes Vicente — Chair, Department of Industrial and Systems Engineering; founding member of the Generative AI Advisory Group (Unit 7).

Frank E. Curtis — Professor, ISE. Researcher in optimization with significant ML applications. Curtis was a co-PI on the NSF TRIPODS Institute for Optimization and Learning award (Award #1740796).

Larry Snyder — Professor, ISE. Former I-DISC Director (2020-2025), now an active I-DISC affiliate. Creator of the Burrito Optimization Game, a Gurobi-collaborative educational tool for

optimization instruction that has been formally evaluated for classroom effectiveness in introductory optimization courses (Unit 6).

Katya Scheinberg — Founding co-director of I-DISC and former ISE faculty. Held the Harvey E. Wagner Endowed Chair in the Department of Industrial and Systems Engineering at Lehigh, departing in July 2019 to join the School of Operations Research and Information Engineering at Cornell University. In July 2024 she joined the H. Milton Stewart School of Industrial and Systems Engineering at Georgia Tech as the Coca-Cola Foundation Chair and Professor and Gary C. Butler Family Faculty Fellow. During her Lehigh tenure she was the lead PI on the NSF TRIPODS Institute for Optimization and Learning (Award #1740796), a Phase I institute based at Lehigh in collaboration with Stony Brook and Northwestern Universities, and co-founded Lehigh's Optimization and Machine Learning (OPTML) research group. She returned to Lehigh as the ISE Spencer C. Schantz Technical Talk speaker on April 10, 2025, presenting "Stochastic Oracles and Where to Find Them."

ECE AI Faculty

Parv Venkitasubramaniam — Professor, ECE; Associate Director of I-DISC (Unit 6).

Rick Blum — Professor, ECE. I-DISC affiliated faculty.

Shaline Kishore — Iacocca Chair Professor, ECE. Former Director of I-CPiE; I-DISC affiliated faculty.

Bioengineering AI Faculty

Anand Jagota — Professor, Bioengineering / Chemical and Biomolecular Engineering; also Vice Provost for Research at Lehigh. I-DISC affiliated faculty (Unit 6 and Unit 7).

Wonpil Im — Professor, Bioengineering. Founding member of the I-DISC Faculty Council in 2017.

Yaling Liu — Faculty in Mechanical Engineering and Mechanics / Bioengineering. Documented PI on the I-DISC Fellows hemolysis prediction project (Unit 6).

Other Engineering AI Faculty

Paolo Bocchini — Professor, Civil and Environmental Engineering. Founding member of the I-DISC Faculty Council; PI on the I-DISC Fellows Ebola spillover project (Unit 6).

Nader Motee — Faculty, Mechanical Engineering and Mechanics. Founding member of the I-DISC Faculty Council.

Srinivas Rangarajan — Faculty, Chemical and Biomolecular Engineering. Founding member of the I-DISC Faculty Council; co-organizer of the May 2019 I-DISC TRIPODS-X workshop on materials and molecular science (Unit 6).

Mayuresh Kothare — Department Chair, Chemical and Biomolecular Engineering; I-DISC affiliated faculty.

Kallie (Ziltz) Pearl — Teaching Assistant Professor, CSE; co-Director of the IDEAS (Integrated Degree in Engineering, Arts and Sciences) honors program as of August 2025. Lehigh alumna with

undergraduate degrees in Computer Science and Business and accounting, plus a master's and PhD in instructional technology. Her research focuses on computer science education with an emphasis on inclusive and equitable learning environments.

Ana Alexandrescu — Professor of Practice, ISE. Co-Director of the Integrated Business and Engineering (IBE) Honors Program with Richard J. Kish (Finance, College of Business).

Recent CSE Departmental Identity

The CSE department's faculty openings page describes its current strengths as "systems, robotics, human-centered computing, data science, and AI" and notes that CSE faculty include fellows of the ACM, IEEE, and NAI as well as several NSF CAREER award winners. The 20-tenure-track and 10-instructional-faculty composition is the most current public roster figure.

1.3 Teaching & Curriculum

CSE AI and Machine Learning Course Sequence

The CSE department offers a structured AI and machine learning course progression at the undergraduate and graduate level. Documented courses from the Spring 2025 and Fall 2025 listings include:

Undergraduate / introductory:

- *Artificial Intelligence (intended for non-majors)* — an introduction to AI concepts, systems, and history for students outside CSE.

Core ML and Deep Learning:

- **CSE 330/430 Deep Learning** — foundational deep learning course, prerequisite for advanced offerings.
- **CSE 426 Fundamentals of Machine Learning** — core ML graduate course.
- **CSE 398/498 Deep and Generative Models** — advanced course on generative models.
- **CSE 327 Knowledge Representation and Reasoning** — introductory KR&R course taught by Heflin, prerequisite for the graduate KR&R course.

Advanced and Research-Track:

- **Knowledge Representation and Reasoning (graduate, Heflin)** — examines KR&R formalisms and automated reasoning procedures, including the role of KR&R in modern systems, when knowledge representation should be preferred to machine learning, and how knowledge representation can be combined with machine learning. Discusses why technology companies are investing in knowledge graphs and how machine learning can be used to make automated reasoning more efficient. Prerequisite: CSE 327.
- **Scientific Machine Learning (seminar)** — a seminar course focused on solving scientific problems using advanced ML algorithms, exploring techniques such as physics-informed neural networks (PINNs), neural operators, digital twins, and foundation models like vision-

language models for scientific discovery. Prerequisites: CSE 330/430 Deep Learning, CSE 398/498 Deep and Generative Models, or CSE 426 Fundamentals of Machine Learning.

- **CSE 375 / CSE 475 Parallel Computer Architectures, Languages, Compilers, and Operating Systems** — design, implementation, and analysis of parallel algorithms for scientific and data-intensive computing.

Cross-listed AI-Adjacent:

- **CSE 308 (BIOE 308) / CSE 408 (BIOE 408) Genomics** — biological discoveries and computational techniques in modern biotechnology, taught by Brian Chen.
- **CSE 310 (BSTA 310) / CSE 410 (BSTA 410) Assistive Technologies** — examines challenges faced by persons with disabilities and the role of assistive technologies, with explicit attention to opportunities presented by recent advances in mobile and AI technologies. Taught by Vinod Nambodiri.

The CSE Spring 2025 course listings note that space in computer science courses is "extremely limited" and that highly qualified non-majors must request space directly from the Associate Chair.

ISE AI Curriculum (May 2025 Launch)

In May 2025, the Department of Industrial and Systems Engineering launched two new courses focused explicitly on the integration of AI into industrial engineering and operations research. The launch was framed by the department as reinforcing its leadership in preparing students and professionals for a rapidly evolving technological landscape, with explicit emphasis on impactful and ethical use of AI in complex service and industrial systems.

Embedding AI in Service Systems and Intelligent Operations — non-credit, university-wide hybrid summer intensive course taught by Meng Zhao. The program is designed to close the gap between academic preparation and industry expectations, providing hands-on experience with generative AI, optimization engines, and analytics tools in realistic service-system contexts. The course is delivered through a series of modular Saturday sessions and a culminating industry-focused workshop, with student projects centered on healthcare and transportation systems. Emphasizes ethical AI use, decision support, and automation, equipping participants with practical skills applicable to internships, co-ops, and early professional roles.

ISE 366/466 Artificial Intelligence for Industrial Engineering and Operations Research — for-credit summer course taught by Charalambos Marangos. Focuses on the strategic application of modern machine learning AI techniques to complex ISE and OR problems across manufacturing, logistics, and energy systems. Rather than emphasizing foundational algorithms alone, students critically evaluate models, interpret results, and assess ethical implications while working with real-world case studies. Uses contemporary software tools and current research literature to prepare students to integrate AI responsibly into system design, analysis, and decision-making.

The ISE course catalog also lists the standing **ISE 364 Introduction to Machine Learning**, **ISE 365 Applied Data Mining**, and the graduate **ISE 444 Optimization Methods in Machine Learning** — these predate the May 2025 launch and represent ISE's foundational ML curriculum.

CSE Faculty AI Course Innovation Examples

One faculty-driven AI course development story documented in the institutional press is **Bilal Khan's** course *The Art of AI Conversation*. Khan is a Professor of Biostatistics and Health Data Science (College of Health) and Professor in the Department of Computer Science and Engineering (Rossin) — a joint appointment. He spent the summer of 2025 writing a book and developing the course to help students learn how to engineer prompts to more effectively interact with large language models. The course's first exercise has students using an LLM to develop hooks for TikTok videos to appeal to a Gen Z audience, on the rationale that a task in which most young people can easily judge success or failure lets them quickly see the strengths and limitations of the tool. Khan's joint appointment makes him a connector between Engineering and the College of Health (Unit 4).

CSE Senior Capstone Program

The **Computer Science Capstone Program** is a two-semester course sequence (CSE 280 *Capstone Project I* and CSE 281 *Capstone Project II*, with CSE 379 *Senior Project* as a related course in the catalog) and is a graduation requirement for all three of the CSE department's Bachelor of Science programs: **BS Computer Science (Engineering)**, **BS Computer Science (Arts and Sciences)**, and **BS Computer Science and Business** (the joint CSB degree with the College of Business). All three BS programs are ABET-accredited; the CSB program is additionally a fully accredited business program through the Business college. The capstone runs from Spring of junior year through Fall of senior year. CSE 216 is a prerequisite; CSB students must additionally complete CSE 241 before registering. Each student team has a CSE faculty member as advisor, and the second semester culminates in a public presentation and live demonstration to external judges as well as CSE faculty and students. Project work is supplemented by weekly seminars, with the first semester emphasizing project definition, planning, and implementation, and the second emphasizing implementation, verification and validation, and documentation.

The CSE Capstone is structured around the **corporate-sponsor model**: external sponsors propose real-world software development problems, and student teams work on those problems "for corporate sponsors" through to delivery. The program is administered through a dedicated public-facing website (lehighcomputersciencecapstone.com) and involves a small group of industry-veteran adjunct faculty as project mentors alongside CSE faculty advisors. Among the documented adjunct mentors is **Stephen Lee-Urban**, a triple-degree Lehigh alumnus (BS Computer Engineering, MS and PhD in Computer Science) whose research interests include artificial intelligence, machine learning, game AI, and automated planning, and who conducted postdoctoral research at Georgia Tech and worked at the Georgia Tech Research Institute before returning to Lehigh as a Capstone adjunct. Lee-Urban's AI/ML/game-AI background is the most explicit AI specialization in the publicly documented Capstone adjunct roster.

The Capstone is also a structural recruitment vehicle for cross-college research projects that need front-end and machine-learning software development. The most concretely documented example is the **RiVR (Researching Immersive Virtual Reality) project** in the College of Education, led by Alec Bodzin (Teaching, Learning and Technology Program) with Tom Hammond, Zilong Pan, and

David Anastasio (Earth and Environmental Sciences, College of Arts and Sciences) as co-mentors. The RiVR team includes "more than a dozen students each year — undergraduates from multiple majors, graduate students from the College of Education, and senior students working on Capstone projects in computer science." The senior CSE Capstone teams contribute the front-end development and machine learning components of the RiVR immersive VR educational games portfolio (Watershed Explorers, Watershed Explorers: Industrial History, Lehigh Gap Story, Flood Adventures), and the project is a documented case in which a College of Education research program reaches into Rossin Engineering's senior undergraduate pipeline through the Capstone mechanism rather than through formal cross-listing or joint appointments. The RiVR Capstone collaboration is documented from the College of Education side in Unit 5 (5.4 Tools & Technology).

IBE and CSB Honors Programs

The **Integrated Business and Engineering (IBE) Honors Program** is a four-year AACSB-accredited program with annual admission limited to approximately 50 students. Co-directed by Ana Alexandrescu (ISE Professor of Practice) and Richard J. Kish (Finance, College of Business). After their freshman year, students declare a major in either Rossin Engineering or the College of Business.

The **Computer Science and Business (CSB) Honors Program** is a joint initiative between the College of Business and the CSE department, with faculty co-directors from both colleges. Sharon Kalafut (Professor of Practice, CSE) is the Rossin College co-director. The program is described as the only one of its kind accredited in both computer science and business. Graduates earn a unique joint degree from both colleges. CSB students take the Bachelor's-to-Master's Accelerated Program option that allows up to 12 undergraduate credits to apply to a master's degree within Rossin (or any Lehigh college).

IDEAS Honors Program

The **Integrated Degree in Engineering, Arts and Sciences (IDEAS)** honors program is co-directed (as of August 2025) by Kallie (Ziltz) Pearl on the CSE/Engineering side, replacing Bill (William A.) earlier leadership. Pearl's research on inclusive and equitable computer science education is cited as complementing IDEAS' interdisciplinary mission.

First-Year Rossin Experience (FYRE)

The First-Year Rossin Experience (FYRE) reimagines the first year of engineering with maker spaces, design labs, and collaborative studios. While not AI-specific, FYRE is the structural framework into which AI-focused first-year programming integrates. Christina Haden and Eric Obeysekare have stepped into FYRE leadership roles in 2025-2026.

1.4 Tools & Technology

Engineering's tool footprint runs through the Sol and Hawk HPC clusters operated by LTS Research Computing (Unit 8), the I-DISC Fellows program (Unit 6), and the institutional LLM Gateway and Google AI for Education Accelerator stack (Units 7 and 8). Engineering does not maintain a separate AI tool ecosystem from the institutional one. Departmental research labs run their own GPU compute

and software stacks, but the public-source documentation of these is at the lab and individual-PI level rather than at the college level.

CSE Departmental Research Areas

The CSE department's public research areas page organizes the department's work into five clusters: AI and Robotics; Machine Learning and Data Mining; Human-Computer Interaction and Social Computing; Systems; and Cybersecurity. The first two clusters are the primary AI and ML research groups.

The **AI and Robotics group** spans computer vision, machine learning, deep reinforcement learning, planning and learning, resilient robot swarms, environmental monitoring using automated vehicles, robotic manipulation, large-scale knowledge graphs, and semantic web research. Real-world applications include perception problems in autonomous vehicles, swarms of robots, and robustness of deep learning models. Funding sources are listed as ONR, NSF, NRL, AFRL, DARPA, Qualcomm, and Ford.

The **Machine Learning and Data Mining group** describes its work as encompassing foundational research in deep learning, AI, reinforcement learning, embeddings, tensor learning, and natural language processing, with applied research in classification, ranking, planning, recommendation, and prediction tasks across healthcare data mining, information retrieval, bioinformatics, neuroimaging, and simulations. Funding sources are listed as NSF, NIH, DARPA, ONR, AFRL, NRL, and industry grants.

The **HCI and Social Computing group** covers information visualization, social media design, human interactions with AI/ML systems, and social privacy practices. Recent work has addressed harassment detection and prevention, online political engagement, and resistance to technology development.

Autonomous and Intelligent Robotics Laboratory (AIR Lab)

The AIR Lab is a Mechanical Engineering and Mechanics laboratory that develops frameworks for risk-aware robotic systems. PhD student Guangyi Liu, a member of the AIR Lab, has been documented developing a framework to improve the risk awareness of robotic systems applicable to any robotic platform that can act safely with uncertain perception measurements and inputs.

InterCONnected Critical Infrastructure Systems Engineering Laboratory

A CEE laboratory led by Assistant Professor **Farrah Moazeni**. PhD students Nazia Raza and Saskia A. Putri have won awards in the Graduate Student Technical Paper Competition at the annual ASCE-EWRI event for work in the lab.

1.5 Research & Scholarship

NSF TRIPODS Institute for Optimization and Learning

In 2017, the NSF awarded Lehigh a Phase I TRIPODS Institute grant (Award #1740796) titled *Collaborative Research: TRIPODS Institute for Optimization and Learning*, with Lehigh as the lead institution

in collaboration with Stony Brook and Northwestern Universities. The institute's scientific work centered on advancements in the design, analysis, implementation, and use of algorithms for solving mathematical optimization and other types of problems for machine learning applications, with specific focus on stochastic algorithms for nonconvex optimization and adaptive parameter-free learning techniques. The lead PI was Katya Scheinberg, then I-DISC founding co-director and ISE faculty.

The TRIPODS Institute supported three postdoctoral researchers and 15 doctoral students. All postdoctoral researchers supported under the award subsequently took assistant professor positions in high-ranking academic departments, according to the NSF award report. The institute organized DIMACS/TRIPODS/MOPTA 2018 in collaboration with DIMACS and Lehigh University, preceded by a Summer School on optimization methods for machine learning taught by the institute investigators. Three additional workshops were organized with support from the parallel TRIPODS+X program. The award included an NSF INTERN supplement that allowed one doctoral student to collaborate with researchers from Argonne National Laboratory.

The Phase I institute ultimately involved partnerships among Lehigh, Cornell, Princeton, Stony Brook, Northwestern, and Boston University. Frank E. Curtis (ISE) was a co-PI on the award.

NSF TRIPODS-X Workshop Series (2018-2019+)

In late 2018, NSF announced support for I-DISC under the TRIPODS+X program as part of a broader \$8.5 million package supporting 19 collaborative projects involving 23 U.S. universities. Two of those NSF grants were awarded to Lehigh. The TRIPODS-X funding supported the *DISC Institute Workshop Series on Machine Learning + X*. The first workshop, *Foundational and Applied Data Science for Molecular and Material Science and Engineering*, was held May 22-24, 2019, in Iacocca Hall on Mountaintop Campus. It was organized by Srinivas Rangarajan (ChBE), Jeetain Mittal (then Lehigh ChBE), and Joshua Agar (then Lehigh Engineering) with Payel Das of IBM T.J. Watson Research Center. Speakers included Alex Dunn from Lawrence Berkeley National Lab on software tools for accelerating materials discovery with machine learning. (See Unit 6 for the I-DISC institutional perspective on this workshop series.)

Recent CSE Federal and State Awards (2023-2025)

A representative inventory of recent ML/AI-related external awards to CSE faculty, drawn from the I-DISC Computer Vision research page:

- **NSF Award 2023** (#2319451) — *Collaborative Research: NSC-FO: Dynamic Brain Graph Mining* (Lifang He, MPI)
- **NIH Award 2023** (R21EY034179) — *Surrogate Augmented Deep Neural Network Learning Toward Precision Medicine* (Lifang He, MPI)
- **DOE Award 2024** (DE-SC0025801) — *Harnessing Nonnegative Matrix Factorization for Advanced Computational Materials Modeling* (Lifang He, Co-PI)
- **PITA Award 2024** — *Mobile Fkx Bot Robot for More Flexible and Robust Industrial Inspection* (Mooi Choo Chuah and Aparna Bharati)

- **PITA Award 2025** — *Foundry Unified System for Inspection and Optimization of Networks (FUSION)* (Lifang He, Co-PI)
- **PITA Award 2025** — *Monitoring Health and Well-being through Videos on Edge Devices* (Aparna Bharati)
- **PMFI Award 2025** — *AI-Driven Digital Transformation for Semiconductor Manufacturing Systems: Enhancing Operational Efficiency with Machine Learning-Based Image Processing* (Lifang He, PI)
- **PFI Award 2025** (PFI MCA) — *Smart Disaster Response: Leveraging Big Data, Autonomous Systems, and Physics-Informed Models for Rapid Disaster Recovery* (Aparna Bharati)
- **Qualcomm Awards 2024 and 2025** (Mooi Choo Chuah)

PITA refers to the Pennsylvania Infrastructure Technology Alliance; PMFI to the Pennsylvania Manufacturing Fellows Initiative; PFI MCA to the NSF Partnerships for Innovation Major Component Acquisition track. These are state, federal, and federal-state partnership awards reflecting both academic-research and industry-engagement components of the CSE department's recent ML/AI research portfolio.

Edward Kim PhD '13 — NSF CAREER Award (Alumni)

Edward Kim, a 2013 Lehigh CSE PhD alumnus and now Assistant Professor of Computing Sciences at Villanova University, was awarded an NSF Faculty Early Career Development (CAREER) Award providing nearly half a million dollars over five years to develop an AI framework that mimics human intelligence using neuromorphic computer chips. Kim's work explores deep learning approaches for building biologically-inspired representations. This is included as an indicator of CSE's doctoral output trajectory in AI; Kim is no longer at Lehigh.

CSE Master's in Data Science

The CSE department co-founded Lehigh's interdisciplinary Master's Program in Data Science. Brian Davison (CSE Department Chair) was a founding co-director of the program. Lehigh also offers an undergraduate minor in Data Science available to students in any major; Davison was its founding director.

1.6 Events & Programming

NSF TRIPODS-X Workshop Series

Documented in Section 1.5 and Unit 6. The May 2019 inaugural workshop and subsequent workshops on robotics, supply chain optimization, and cognitive neuroscience were the primary public-facing AI events Engineering hosted in the institute's first phase.

DIMACS/TRIPODS/MOPTA 2018 Conference

Organized by the NSF TRIPODS Institute for Optimization and Learning investigators in collaboration with DIMACS and Lehigh University. The conference was preceded by a Summer School on optimization methods for machine learning taught by the institute investigators.

AI@Lehigh Summit Engineering Participation

Engineering faculty have served as panelists and speakers at both AI@Lehigh Summits. For the 2nd Annual Summit on January 13, 2026, the *Using AI in Teaching and Learning at Lehigh* panel included **Steve McIntosh**, Professor and Chair of the Department of Chemical and Biomolecular Engineering, as the Engineering panelist. Full summit programming is documented in Unit 7.

Inclusive Excellence in Teaching Workshop (January 2026)

The January 15, 2026 workshop at Mountaintop Campus on AI in higher education and the workplace included Engineering faculty in panel discussions and student-panel responses, with senior corporate executives from Lehigh's alumni network at companies including Johnson and Johnson, Lumeris, J.P. Morgan Asset Management, KPMG, and Bloomberg. Documented in Unit 7.

Departmental Seminars and Talks

CSE, ISE, ECE, and Bioengineering all run standing seminar series that include AI and ML talks. Public consolidated documentation of recent (2024-2026) departmental seminars on AI is uneven across departments, with most surface visibility through individual faculty pages and the Lehigh events calendar rather than through college-level event archives.

Gaps and Observations

The Engineering AI research portfolio is rich enough that the public-source documentation captures only a representative slice. The CSE department's research areas pages and the I-DISC research pages list named awards and projects for faculty in computer vision (Lifang He, Aparna Bharati, Mooi Choo Chuah) but the analogous research-area pages for machine learning and data mining, HCI and social computing, systems, and cybersecurity surface fewer specific awards in available sources. A complete Engineering AI research inventory would require department-by-department audits of faculty CVs and external grant databases like NSF Award Search, NIH Reporter, and DOE PAGES.

The two simultaneous CSE faculty searches in ML/AI and Robotics for July 2026 start dates are documented in the departmental faculty openings page but the search committees, expected number of hires, and any salary or startup-package information are not public. The searches are the strongest documented signal of Engineering's AI capacity-expansion intent in current sources.

Bilal Khan is documented as a joint appointment between Health (Biostatistics and Health Data Science) and Rossin (CSE), but the specific structural form of the joint appointment (primary department, FTE split, tenure home) is not specified in available public sources. Khan's *Art of AI Conversation* course is documented in Lehigh news but the course number, department of record, semester offered, and enrollment are not specified.

The May 2025 ISE AI course launch is well-documented for the two named courses (the non-credit summer intensive and ISE 366/466), but the standing ISE 364 Introduction to Machine Learning, ISE 365 Applied Data Mining, and ISE 444 Optimization Methods in Machine Learning courses' instructors, recent enrollments, and curricular position are not consolidated in the press release

framing of the May 2025 launch. The ISE department's positioning of the May 2025 launch as new offerings does not address how they relate to or build on the standing courses.

Sharon Kalafut is identified as the Rossin College co-director of the CSB program but her current title (Professor of Practice in CSE) and any AI-specific research or teaching are not surfaced. Kalafut's relationship to AI is via the CSB program governance rather than direct research involvement, based on available sources.

The full faculty roster of the AIR Lab, the InterCONnected Critical Infrastructure Lab, and other named research labs in Engineering is not consolidated at the college level — labs surface through department news and graduate student award announcements rather than through a unified Engineering research lab directory.

The transition from Larry Snyder to Héctor Muñoz-Avila as I-DISC Director in August 2025 is documented from the Engineering side (in the same Rossin announcement that named Lamadrid for I-CPIE and Pearl for IDEAS) but the operational implications for Engineering's AI research priorities are not yet surfaced in a public statement.

Katya Scheinberg's Lehigh affiliation history is now resolved (see People section). She held the Wagner Chair at ISE through July 2019, moved to Cornell ORIE, and joined Georgia Tech ISyE in July 2024 as the Coca-Cola Foundation Chair. She returned to Lehigh as the April 2025 Spencer C. Schantz Technical Talk speaker. Her foundational contributions to Lehigh AI — co-founding I-DISC, leading the NSF TRIPODS Award #1740796, co-founding the OPTML group — belong to the historical record.

Cross-References

- **I-DISC (Unit 6):** Engineering is the administrative home of I-DISC; the largest concentration of I-DISC faculty is from Engineering departments; the NSF TRIPODS Institute for Optimization and Learning award (#1740796) and the TRIPODS-X workshop series originated from Engineering faculty.
- **College of Business (Unit 3):** The CSB Honors Program and the IBE Honors Program are jointly administered with the College of Business; Bilal Khan's joint appointment connects Engineering to Business through the Computer Science and Business Honors Program co-direction.
- **College of Health (Unit 4):** Bilal Khan holds a joint appointment in CSE and the College of Health's Biostatistics and Health Data Science department; CSE 308/BIOE 308 *Genomics* and CSE 310/BSTA 310 *Assistive Technologies* cross-list with Health-side departments.
- **College of Arts and Sciences (Unit 2):** The CAS-track CS degree is administered through the same CSE faculty who teach the Engineering-track CS degree; the Mathematics department contributes I-DISC faculty (Wei-Min Huang, Garth Isaak); Psychology contributes I-DISC faculty whose work intersects with Engineering's HCI and social computing research.
- **College of Education (Unit 5):** The CSE Senior Capstone Program (CSE 280 / CSE 281) is a documented recruitment vehicle for the College of Education's RiVR (Researching

Immersive Virtual Reality) project, with senior CSE Capstone teams contributing front-end development and machine learning components to the RiVR immersive VR educational games portfolio led by Alec Bodzin, Tom Hammond, and Zilong Pan.

- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** Luis Nunes Vicente (ISE Chair) was a founding member of the Generative AI Advisory Group; Steve McIntosh (ChBE Chair) served on the 2026 AI@Lehigh Summit teaching panel.
- **Library and Technology Services cluster (Unit 8):** Sol and Hawk HPC clusters operated by LTS Research Computing are Engineering's primary research compute infrastructure; CSE is the largest faculty user population.
- **Office of Research (Unit 9):** Vice Provost for Research Anand Jagota holds his faculty appointment in Bioengineering and Chemical and Biomolecular Engineering; the Office of Research administers grants for the NSF, NIH, DOE, PITA, PMFI, and PFI awards documented above.
- **Part I, Section VIII (Infrastructure & Strategic Investment Signals):** The 2025-26 CSE faculty searches in ML/AI and Robotics; the I-DISC infrastructure investment; the TRIPODS Institute as a Phase I federal investment in Lehigh's optimization-and-learning capacity.
- **Part I, Section VI (Research Governance & Ethics):** Engineering's PI portfolio runs through Office of Research compliance and IRB structures.

Sources

Rossin Engineering — *Lehigh ISE debuts new courses harnessing artificial intelligence for industrial engineering and operations research* (February 2026), launch announcement and full course descriptions for the Meng Zhao non-credit summer intensive and the Marangos for-credit ISE 366/466

<https://engineering.lehigh.edu/news/article/lehigh-ise-debuts-new-courses-harnessing-artificial-intelligence-industrial-engineering>

Rossin Engineering — *Leadership updates: I-DISC, I-CPIE, IDEAS* (August 2025), DeWeerth-led leadership refresh including Muñoz-Avila return, Lamadrid appointment to I-CPIE, and Pearl appointment to IDEAS co-direction

<https://engineering.lehigh.edu/news/article/leadership-updates-i-disc-i-cpie-ideas>

U.S. News & World Report — Lehigh University (Rossin) graduate engineering school profile with faculty count and student-faculty ratio

<https://www.usnews.com/best-graduate-schools/top-engineering-schools/lehigh-university-02154>

Lehigh Office of the Provost — *Teaching at Lehigh: Policies, Guidance, and Syllabus Statements*, explicit statement that Lehigh has no uniform AI policy in courses

<https://provost.lehigh.edu/teaching-lehigh-policies-guidance-and-syllabus-statements>

CSE Department — *Faculty Openings* page documenting two open-rank tenure-line searches for ML/AI and Robotics with July 2026 start, plus current faculty composition

<https://engineering.lehigh.edu/cse/news/faculty-openings>

Rossin Engineering — Brian D. Davison faculty profile with NSF CAREER award, editorial roles, sabbatical at Facebook, and founding directorships of the data science master's and undergraduate minor

<https://engineering.lehigh.edu/faculty/brian-d-davison>

I-DISC — *Computer Vision* research page listing 2023-2025 NSF, NIH, DOE, PITA, PMFI, PFI, and Qualcomm awards to Lifang He, Aparna Bharati, and Mooi Choo Chuah

<https://idisc.lehigh.edu/research/computer-vision>

CSE Department — *Spring 2025 Courses* listing including the non-majors AI course, CSE 308/BIOE 308 Genomics, and CSE 310/BSTA 310 Assistive Technologies

<https://engineering.lehigh.edu/spring-2025-courses>

CSE Department — *Departmental Research Areas* overview page describing the five research clusters

<https://engineering.lehigh.edu/cse/departmental-research-areas>

CSE Department — *Fall 2025 Courses* listing including CSE 330/430 Deep Learning, CSE 426 Fundamentals of Machine Learning, CSE 398/498 Deep and Generative Models, CSE 327 KR&R, the graduate KR&R course, and the Scientific Machine Learning seminar

<https://engineering.lehigh.edu/cse/academics/fall-2025-courses>

LTS — *Lehigh Rings in New Year with New Summit Exploring Generative AI*, identifying Vicente as a founding GenAI Advisory Group member in his ISE Chair capacity

<https://lts.lehigh.edu/news/lehigh-rings-new-year-new-summit-exploring-generative-ai>

NSF Award Search — Award #1740796 *Collaborative Research: TRIPODS Institute for Optimization and Learning*, Lehigh as lead institution with Stony Brook and Northwestern, three postdocs and 15 doctoral students supported, DIMACS/TRIPODS/MOPTA 2018 conference and Summer School

https://www.nsf.gov/awardsearch/showAward?AWD_ID=1740796

Georgia Tech ISyE — *ISyE Welcomes Katya Scheinberg, Newly Elected MOS Chair* (July 2024) — documents her move from Cornell ORIE to Georgia Tech as Coca-Cola Foundation Chair, prior Wagner Chair tenure at Lehigh ISE through July 2019, and I-DISC co-directorship

<https://www.isye.gatech.edu/news/isye-welcomes-katya-scheinberg-newly-elected-mos-chair>

Rossin College — *Lehigh ISE Spencer C. Schantz Technical Talk: Katya Scheinberg, Georgia Institute of Technology* (April 10, 2025), talk title and current Georgia Tech affiliation

<https://engineering.lehigh.edu/news/article/lehigh-ise-spencer-c-schantz-technical-talk-katya-scheinberg-georgia-institute>

I-DISC — *I-DISC Fellow Projects* page documenting Yaling Liu's hemolysis prediction software and Paolo Bocchini's Ebola spillover modeling among the doctoral-fellow research matches, with additional projects spanning marketing field studies, insect-sentiment analysis, international trade-flow data, and automated radiographic scoring

<https://idisc.lehigh.edu/opportunities-resources/faculty/i-disc-fellows/i-disc-fellow-projects>

I-DISC — *I-DISC Faculty Members* page with Engineering-side roster

<https://idisc.lehigh.edu/i-disc-faculty-members>

Lehigh University Catalog — *Principal Officers* list, Anand Jagota as Vice Provost for Research with BioE and ChBE faculty appointment

<https://catalog.lehigh.edu/administrationfacultyandstaff/principalofficers/>

Lehigh University News — *Turning to Machine Learning for Molecular, Materials Research*, May 2019 NSF TRIPODS-X workshop coverage with NSF \$8.5M context, organizers, and speakers

<https://news.lehigh.edu/turning-to-machine-learning-for-molecular-materials-research>

Lehigh University Catalog — *P.C. Rossin College of Engineering and Applied Science* page with IBE Honors Program, CSB Honors Program, accelerated B.S.-to-M.S. program, and IBE co-directors Alexandrescu and Kish

<https://catalog.lehigh.edu/coursesprogramsandcurricula/engineeringandappliedscience/>

ISE Department — *Course Listings and Requirements* page documenting ISE 364 Introduction to Machine Learning, ISE 365 Applied Data Mining, and ISE 444 Optimization Methods in Machine Learning

<https://engineering.lehigh.edu/ise/academics/courses>

Lehigh University News — *Becoming 'AI Ready' at Lehigh* (January 2026), Bilal Khan joint appointment, *The Art of AI Conversation* course, and TikTok-hooks first exercise

<https://news.lehigh.edu/becoming-ai-ready>

Computer Science and Business — *CSB Honors Program* page documenting the joint CSE/Business accreditation and program structure

<https://csb.lehigh.edu/>

Rossin Engineering — homepage with FYRE program description and Christina Haden / Eric Obeysekare leadership, plus news items on the AIR Lab risk-aware robotics framework (Guangyi Liu) and the InterCONnected Critical Infrastructure Systems Engineering Laboratory (Farrah Moazeni, Nazia Raza, Saskia A. Putri)

<https://engineering.lehigh.edu/>

CSE Department — *AI and Robotics* research area page with funding sources and research topics

<https://engineering.lehigh.edu/cse/departamental-research-areas/ai-and-robotics>

CSE Department — *Machine Learning and Data Mining* research area page with funding sources and research topics

<https://engineering.lehigh.edu/cse/departamental-research-areas/machine-learning-and-data-mining>

Rossin Engineering — *CSE alum earns NSF CAREER award for AI research*, Edward Kim PhD '13 at Villanova

<https://engineering.lehigh.edu/news/article/cse-alum-earns-nsf-career-award-ai-research>

LTS — *AI@Lehigh Summit 2026* event page with Steve McIntosh on the teaching and learning panel

<https://lts.lehigh.edu/ailchigh-summit-2026>

Lehigh University News — *AI Dominates Conversation at Inclusive Excellence in Teaching Workshop* (February 2026), January 15 2026 Mountaintop event with corporate alumni panel

<https://news.lehigh.edu/ai-dominates-conversation-at-inclusive-excellence-in-teaching-workshop>

Lehigh Computer Science Capstone program site — overview of the Capstone Program as a graduation requirement for all three CSE BS programs (BS Engineering, BS Arts and Sciences, BS Computer Science and Business), the corporate-sponsor model, the joint CSB degree from both Business and Engineering colleges, and adjunct faculty mentor profiles including Stephen Lee-Urban (triple-degree Lehigh alumnus, AI/ML/game-AI background, Georgia Tech postdoc and Georgia Tech Research Institute prior experience)

<https://lehighcomputersciencecapstone.com/>

Lehigh CSE course catalog — CSE 280 *Capstone Project I* and CSE 281 *Capstone Project II* course descriptions documenting the two-semester sequence structure, the team-with-faculty-advisor model, the weekly seminar supplement, the first-semester emphasis on definition/planning/implementation and second-semester emphasis on implementation/verification/validation/documentation, and the culminating public presentation and live demonstration to external judges

<https://engineering.lehigh.edu/cse/academics/course-index/cse-280-capstone-project-i-3>

Lehigh University News — *Revolutionizing Learning Through Immersive Virtual Reality* (January 2025) documenting the RiVR project's annual student team composition ("more than a dozen students each year — undergraduates from multiple majors, graduate students from the College of Education, and senior students working on Capstone projects in computer science"), the Bodzin/Hammond/Pan/Anastasio mentor team, and the project's growth from the 2018 prototype through five VR games in development

<https://news.lehigh.edu/revolutionizing-learning-through-immersive-virtual-reality>

2.

College of Arts and Sciences

KEY SIGNALS

The College of Arts and Sciences contributed thirteen of the twenty-six contributors to Lehigh's 2024 Future Maker Strategy Grant Lehigh AI program — a margin of more than half the total cohort across a university with five colleges, two research-administration units, and six interdisciplinary programs. CAS is the home department of Vice Provost Dominic Packer (Psychology), GenAI Advisory Group founding member Haiyan Jia (Journalism and Communication), Lehigh AI program co-lead Haiyan Jia, and a Department of Physics that hosts the only documented CAS-led federal AI research grant in available sources — Chinedu Ekuma's \$800,000 Department of Energy Office of Advanced Scientific Computing Research award for *Harnessing Nonnegative Matrix Factorization for Advanced Computational Materials Modeling*, with Lifang He (CSE) and Akwum Onwunta (ISE) as co-PIs. CAS is also the administrative home of the College's two Bachelor of Science in Computer Science variants (BS-CAS and BA-CAS) which are taught by CSE faculty under Rossin Engineering's curriculum but follow CAS distribution requirements, and of the Mellon Digital Humanities Initiative directed by Edward Whitley (English) — a Bethlehem-engaged community-and-archives initiative whose digital infrastructure increasingly intersects with library AI literacy work.

The College of Arts and Sciences is Lehigh's largest college, with eighteen departments, ten interdisciplinary programs, and six specialized research centers, enrolling 2,188 undergraduate students and 322 graduate students across 68 majors and 56 minors. CAS serves approximately 40% of Lehigh undergraduates through its programs and courses, and reported more than \$14 million in research expenditures in 2024-25. The College is led by Robert A. Flowers II, Herbert J. and Ann L. Siegel Dean. Flowers is the eleventh dean of CAS and the fourth person to hold the Siegel endowed deanship. He took office November 1, 2019, succeeding Diane Hyland (interim). The College's offices are in Maginnes Hall.

2.1 Governance & Policy

CAS does not maintain its own AI governance policy distinct from the institutional Lehigh frameworks documented in Unit 7 (Office of the Provost) and Unit 8 (Library and Technology Services cluster). CAS faculty operate under the same Acceptable Use of Computing Systems Policy, Data Classification Framework, and *AI Principles, Policies and Expectations* that govern the rest of the university, and follow the three CITL syllabus options (Full Integration, Limited or Assisted Use, Prohibited Use) under the Provost's explicit non-uniform policy on student AI use.

The College's most direct contribution to the institutional AI governance architecture is through its faculty in the Provost cluster. Dominic Packer (Psychology) is Vice Provost for Educational Innovation and Assessment, Senior Advisor to the Vice Provost for Research, and the Provost-appointed lead of the Lehigh AI Readiness initiative; he is documented at length in Unit 7. Haiyan Jia (Journalism and Communication, Cognitive Science Program, Digital Media Lab) is one of the six founding members of the Generative AI Advisory Group Provost Urban convened in January 2025 and is one of the four program leads of the Lehigh AI digital hub. These two faculty members carry the bulk of CAS's institutional voice in AI governance; the College itself does not publish a separate policy.

The College's senior leadership team — Dawn Keetley (Associate Dean for Faculty Affairs), R. Michael Burger (Associate Dean for Research and Graduate Programs), Kelly Austin (Associate Dean for Undergraduate Programs), and Jesseca Marsh (Associate Dean for Interdisciplinary Programs and International Initiatives) — has not, in available public sources, published an AI-specific framework or college-level guidance document distinct from the institutional principles.

2.2 People

This section identifies CAS faculty whose AI-related work surfaces in the inventory through teaching, research, governance, or external grant activity. The College has eighteen departments and many more faculty than are listed here; inclusion is restricted to those with documented public AI-relevant signal.

Dean's Office

Robert A. Flowers II — Herbert J. and Ann L. Siegel Dean, Danser Distinguished Faculty Chair in Chemistry. Flowers is Lehigh's eleventh CAS dean and the fourth person to hold the Siegel deanship. He earned his Ph.D. in organic chemistry from Lehigh, joined the faculty in 2003, served as chair of the Chemistry department from 2003 to 2015, and was named Deputy Provost for Faculty Affairs in 2016 (officially January 2017). He is a Fellow of the American Association for the Advancement of Science and the Royal Society of Chemistry, and a recipient of the Eleanor and Joseph F. Libsch Research Award (2012), the Dean's Award for Research, Scholarship and Creative Activity (2016), and the Hillman Award for Excellence in Graduate Advising (2017). In CAS communications Flowers has framed the humanities and social sciences as central to the challenges of the science-and-technology era; he has not, in available sources, made AI-specific governance statements distinct from the institutional principles.

Department of Psychology

The Psychology department is the largest single CAS contributor to the I-DISC affiliated faculty roster and the disciplinary home of two of the inventory's most central figures (Dominic Packer in the Provost cluster and Kate Arrington as a former I-DISC Associate Director and current Psychology Department Chair).

Dominic Packer — Vice Provost for Educational Innovation and Assessment; Associate Vice Provost for Research; also Senior Advisor to the Vice Provost for Research; and Professor of Psychology. Packer is documented at length in Unit 7 (Office of the Provost). His Psychology faculty

appointment makes him a CAS faculty member; his AI Readiness, AI Tutor Project, and *Lehigh Becoming AI-Ready* leadership are run through the Provost cluster and the Office of Educational Innovation and Assessment, not through the Psychology department.

Kate Arrington — Professor of Psychology and Department Chair (CU 130); former Associate Director of I-DISC. Arrington joined the Lehigh faculty in 2005 after a Ph.D. in Cognitive Psychology from Michigan State University and an NRSA-funded postdoctoral fellowship at Vanderbilt. She is internationally known for her research on cognitive control during human multitasking, including the voluntary task switching paradigm she developed. Her AI-relevant work spans (a) intelligent tutoring system research, including a 2020 *Journal on Multimodal User Interfaces* paper with Erin Solovey and colleagues on fNIRS-based classification of mind-wandering with personalized window selection for multimodal learning interfaces, and (b) her role as cognitive science team lead for Lehigh's Presidential Nano-Human Interface (NHI) Initiative. She served as a rotating program officer in the NSF Perception, Action, and Cognition program (2015-17) and chaired Women in Cognitive Science starting in 2021. She stepped down from the I-DISC Associate Director role in summer 2025 as part of the leadership transition documented in Unit 6.

Nancy Carlisle — Associate Professor of Psychology and Director of Graduate Studies (CU 112). Carlisle's CAMlab uses behavioral, eye-tracking, and EEG techniques to study attention. Her most directly AI-relevant publications are computational EEG analyses of psychiatric populations, including (a) a forthcoming *Nature Mental Health* paper on EEG functional connectivity symptom dimensions in autism (with Tong, Xie, Fonzo, Satterthwaite, and Zhang) and (b) a forthcoming *Journal of Affective Disorders* paper on individual deviations from normative EEG connectivity predicting antidepressant response (with Tong, Xie, Wu, Keller, Fonzo, Chidharom, Etkin, and Zhang). These collaborations apply normative-modeling and machine-learning approaches to clinical neurophysiology and put Carlisle in the broader I-DISC research community.

Almut Hupbach — Professor of Psychology and I-DISC affiliated faculty. Hupbach received her Ph.D. in Cognitive Psychology from Universität Trier in 2000 and joined the Lehigh Psychology Department in 2009. Her research is on human episodic memory, memory updating, reconsolidation, and the effects of stress on memory; her work is funded by the National Science Foundation. Hupbach's AI relevance is indirect: her memory research informs cognitive science writ large, but her published work does not center machine learning or AI methods. She is included in the I-DISC Psychology cluster as a foundational cognitive scientist rather than as an AI researcher per se.

Padraig O'Seaghdha — Professor Emeritus of Psychology and the Cognitive Science Program. O'Seaghdha is now emeritus (not active faculty); his research on language production and the interface between thoughts and words is foundational to the cognitive science work at Lehigh but predates the current generative AI moment. His listing on the I-DISC Psychology roster reflects his long-standing affiliation rather than current AI-specific research.

Department of Journalism and Communication

Haiyan Jia — Associate Professor in the Department of Journalism and Communication, Cognitive Science Program, and Digital Media Lab; founding member of the Generative AI Advisory Group;

co-lead of the Lehigh AI Future Maker Strategy Grant program. Jia received her Ph.D. in Mass Communication from Penn State's College of Communications in 2014, completed a postdoctoral fellowship in Penn State's College of Information Sciences and Technology, and joined the Lehigh faculty in 2016 as Assistant Professor; she was promoted to Associate Professor in 2024. Her research areas span communication technology, human-computer interaction, social media, information privacy, artificial intelligence, health communication, and data journalism, with more than 2,500 Google Scholar citations as of available data. She is the contact for Lehigh AI program participation from the CAS side (haj616@lehigh.edu) and served on the *Using AI in Teaching and Learning at Lehigh* panel at the second AI@Lehigh Summit (January 13, 2026), documented in Unit 7. Jia leads or contributes to AI-relevant Lehigh research projects including a dataset search engine prototype that allows users to find data online regardless of domain.

Jack Lule — Chair of the Department of Journalism and Communication. Lule served on the search committee that selected Stephen DeWeerth for Engineering Dean and on the search process for the CAS deanship. He is not documented as having a primary AI research portfolio in available sources but is the administrative home for Jia's faculty appointment.

Department of Physics

Chinedu Ekuma — Associate Professor of Physics; Principal Investigator of the Ekuma Group; member of the I-DISC Faculty Advisory Council. Ekuma earned his Ph.D. in Computational Condensed Matter Physics from Louisiana State University under Mark Jarrell and was a George F. Adams Distinguished Research Scientist at the U.S. Army Research Laboratory and a National Research Council Research Fellow at the U.S. Naval Research Laboratory before joining Lehigh. His research integrates ab initio density functional theory, advanced many-body methods, machine learning, and materials informatics for the discovery of advanced quantum and energy materials. He is the lead PI on a \$800,000 U.S. Department of Energy grant from the Office of Advanced Scientific Computing Research titled *Harnessing Nonnegative Matrix Factorization for Advanced Computational Materials Modeling*, with co-PIs Lifang He (CSE), Akwum Onwunta (ISE), and Bao Wang (University of Utah). The award funds development of physics-guided scientific machine learning algorithms (deep learning-assisted nonnegative matrix factorization and diffusion models) for the prediction of material properties. Each of the four researchers receives \$200,000 from the grant. Ekuma's group has also developed open-source AI tools including PropertyExtractor (an LLM-based scholarly data extraction tool) and a computational toolkit for predicting 2D material thickness using machine learning and large-language-model-autogenerated datasets. This is the most prominent CAS-led federal AI research grant in available public sources for Unit 2.

Lisa Fredin — Associate Professor of Chemistry; member of the I-DISC research group on Machine Learning in Materials Science alongside Ekuma and Ganesh Balasubramanian (Mechanical

Engineering and Mechanics). The I-DISC Machine Learning in Materials Science research group is documented in Unit 6.

Department of Mathematics

Wei-Min Huang — Professor of Mathematics; former Department Chair (2007-2016 and Interim Chair fall 2018); I-DISC affiliated faculty. Huang joined Lehigh in 1982 immediately after receiving his Ph.D. and was promoted to Full Professor in 1995. His research is in information-based statistical inference, semiparametric modeling, nonparametric statistics, and statistical applications of stochastic processes, with explicit framing as statistical foundations for machine learning and data science. His applications work spans microarray large-scale data analysis, wireless networks, data clustering and pattern recognition, and statistical machine learning. Recent collaborative work includes the *Cluster-Aggregate-Pool (CAP) Ensemble Algorithm for Improved Forecast Performance of influenza-like illness* (2024, with Ningxi Wei, Xinze Zhou, and Thomas McAndrew of the College of Health's Biostatistics and Health Data Science department), random field calibration with data on irregular grids for bat carrying capacity in Africa (2023, with Sena Mursel, Daniel Conus, and Paolo Bocchini of CEE), and machine-learning-assisted plasma-catalyzed methane reforming optimization (with Diego Alexander Gonzalez-Casamachin, Tian Qin, Srinivas Rangarajan of ChBE, Lihua Zhang, and Jonas Baltrusaitis of ChBE). Huang is the strongest documented CAS Mathematics contributor to applied machine learning research and the central node connecting CAS Math to the College of Health (McAndrew) and Engineering (Bocchini, Rangarajan, Baltrusaitis) AI/ML communities.

Garth Isaak — Professor of Mathematics and current Department Chair (gisaak@lehigh.edu, CU 210); I-DISC affiliated faculty. Isaak received his Ph.D. from the Rutgers Center for Operations Research (RUTCOR) in 1990. His own research is in graph theory, combinatorics, interval orders, and pebbling games on graphs — pure discrete mathematics rather than direct AI/ML. His I-DISC affiliation is via Mathematics department leadership and service to the institute rather than direct AI research output. He is the disciplinary home for the Mathematics department's contribution to data-science minor and statistics courses in CAS.

Daniel Conus — Associate Professor of Mathematics. Conus is co-author with Wei-Min Huang and Paolo Bocchini on the bat carrying capacity random field calibration paper noted above and on related Civil Engineering ML applications.

Department of English

Edward Whitley — Associate Professor of English; Director of the Mellon Digital Humanities Initiative (whitley@lehigh.edu). Whitley directed the original Mellon-funded *Engaging Undergraduates with the Local Community through the Digital Humanities* initiative documented under Tools & Technology below, and continues to serve as the Initiative's faculty lead. His own digital humanities work includes

The Vault at Pfaff's, a digital archive of art and literature by New York City's nineteenth-century Bohemians.

Michael Kramp — Associate Professor of English; I-DISC affiliated faculty. Kramp is the only English faculty member in the I-DISC roster in available sources. His specific AI/ML research portfolio is not documented in the I-DISC roster entry itself.

Other Departments

Suzanne Edwards — Associate Professor of English; Director of the Humanities Center at Lehigh. Edwards is the lead faculty contact for the larger Mellon Foundation grant to "Infuse Humanities Across Academic Culture" at Lehigh, which built on the Mellon Digital Humanities Initiative. The Humanities Center is the institutional home for first-year humanities seminars, "course moments" cross-college humanities collaborations, and faculty development around interdisciplinary humanities-and-science teaching. The Humanities Center has not, in available sources, published a standalone AI initiative, but its model of humanities-as-hub for interdisciplinary inquiry is the most natural CAS counterpart to the institutional AI Readiness framing.

The Department of Theatre, the Department of Art, Architecture and Design, the Mountaintop programs, and the Humanities Center are referenced in the Touchstone Theatre and Inclusive Excellence sections of the inventory but their direct AI-relevant research and teaching footprint in available public sources is thin. Theater faculty member Melpomene Katakalos served on the search committee that selected Robert Flowers as Dean.

2.3 Teaching & Curriculum

CAS-Track Computer Science Degrees (BS-CAS and BA-CAS)

Lehigh offers two Bachelor of Science programs in Computer Science — one through CAS (127 credit hours) and one through Rossin Engineering (130 credit hours) — both ABET-accredited and both administered by the Computer Science and Engineering department documented in Unit 1. Lehigh also offers a Bachelor of Arts in Computer Science through CAS. The two BS programs are identical in their fundamental mathematics and computer science requirements; the difference is the non-CS distribution requirements (CAS distribution for the BS-CAS variant, engineering distribution for the BS-Rossin variant). The CSE faculty who teach the AI and machine learning course sequence documented in Unit 1 (Davison, Heflin, Bharati, Chen, He, DiFranzo, and others) teach the same courses for CAS and Rossin students alike. The CS BA-CAS program is a 120-credit-hour liberal arts degree with computer science as the major concentration. CSE department leadership characterizes the CAS variant as appropriate for students with interests in management, finance, data processing, and information handling, and the Rossin variant for students with interests in engineering and science applications. CS-CAS students contribute to the 2,188 CAS undergraduate enrollment figure and follow CAS distribution requirements for their non-CS coursework.

Data Science Minor

The Data Science minor is administered by CSE and is open to undergraduates from all colleges, requiring a minimum of 16 credit hours. CAS students pursuing the Data Science minor typically combine it with a CAS major (Mathematics, Statistics, Psychology, or a humanities/social science major) and gain exposure to the same machine learning courses as Rossin Engineering students.

Mathematics and Statistics Coursework

The Mathematics department offers Lehigh's foundational statistics sequence, including MATH 012 *Basic Statistics and Data Science*, taught by Garth Isaak, Steven Berger, Tian Qin, and other Math faculty. This is the entry-level statistics course most CAS undergraduates encounter as part of their distribution requirements and is the disciplinary on-ramp to data science work for non-STEM majors.

Cognitive Science Program

The Cognitive Science Program is interdisciplinary and houses faculty appointments across Psychology, Journalism and Communication, Computer Science, and Linguistics. Haiyan Jia, Kate Arrington, Padraig O'Seaghdha (emeritus), and Almut Hupbach all hold Cognitive Science Program affiliations in addition to their primary departmental homes. The Program offers a major and minor and serves as the institutional venue for cognitive-science-and-AI courses cross-listed under PSYC, COGS, and CSE prefixes.

Course-Level Future Maker Projects (Lehigh AI 2024)

Several of the funded Lehigh AI Future Maker projects developed in fall 2024 were classroom-facing pedagogical experiments by CAS faculty. Documented examples drawn from the Lehigh AI Preserve sub-collection include theatrically-grounded in-class AI activities, AI training for the Oral Proficiency Interview in language teaching, AI-mediated workflows for pre-professional journalism, AI-and-writing-pedagogy research with multilingual students, and project summaries for student-facing AI literacy modules. The full set of CAS-affiliated Lehigh AI projects is searchable in The Preserve under the *Lehigh AI* sub-collection.

CAS Faculty in the AI Tutor Project Cohort

The 35-faculty AI Tutor Project cohort organized through the Office of Educational Innovation and Assessment and CITL includes CAS faculty members; the full cohort roster is not published, but the Provost-cluster framing in Unit 7 identifies CAS faculty as participants alongside Engineering, Business, Health, and Education colleagues. Specific CAS participants are not enumerated in available sources.

2.4 Tools & Technology

CAS does not maintain its own AI tool stack distinct from the institutional Lehigh infrastructure documented in Unit 8. CAS faculty access the LLM Gateway, LTS sandbox, Google Gemini, NotebookLM, and other approved tools through the standard institutional pathways.

Mellon Digital Humanities Initiative

The Mellon Digital Humanities Initiative (MDHI) is administratively housed in CAS at digitalhumanities.cas.lehigh.edu and is the College's primary humanities-side digital infrastructure. Originally funded through an \$800,000 three-year Andrew W. Mellon Foundation grant for *Engaging Undergraduates with the Local Community through the Digital Humanities*, MDHI promotes the incorporation of digital technologies across the humanities to foster meaningful interactions between Lehigh undergraduates and the surrounding community of Bethlehem, with particular emphasis on South Bethlehem. Edward Whitley (English) is the founding Director. MDHI offers course development grants, community partner grants, undergraduate research grants, and on-campus workshops in digital humanities methods. The initiative pre-dates the current generative AI moment and is not framed as an AI initiative; its remit is digital humanities broadly construed (digital archives, oral histories, documentary films, digital maps, historical surveys, and creative works). Its convergence with current AI literacy work surfaces through library programming (Unit 8) and the CITL/MDHI shared workshop infrastructure rather than through MDHI standalone AI projects in available sources. Affiliated faculty and staff include Ilena Key (then Manager of Instructional Technology Consulting; now AVP for ITS and CIO; documented in Unit 8).

CAS Digital Scholarship and the Library DH Connection

Lehigh's library research guides identify the Mellon Digital Humanities Initiative as one of three primary digital humanities resources at Lehigh, alongside legacy projects such as *Beyond Steel: An Archive of Lehigh Valley Industry and Culture*, Whitley's *The Vault at Pfaff's*, Edward Gallagher's *History on Trial*, and *Still Looking for You: A Bethlehem Place + Memory Project*. The CAS-LTS digital humanities collaboration is the closest analog to a shared CAS-LTS AI infrastructure but is not, in available sources, explicitly framed as AI infrastructure.

2.5 Research & Scholarship

CAS-Led Federal AI Research Grants

The most substantial CAS-led federal AI research grant documented in available public sources is Chinedu Ekuma's \$800,000 U.S. Department of Energy Office of Advanced Scientific Computing Research award for *Harnessing Nonnegative Matrix Factorization for Advanced Computational Materials Modeling* (Physics, with co-PIs from Engineering and the University of Utah), described in the Physics section of People above. This is the only CAS-led federal AI/ML research grant of this scale surfaced for the dossier.

Cross-College ML and Statistics Collaborations

The strongest CAS contribution to applied machine learning research at Lehigh runs through cross-college collaborations rather than CAS-only projects. Wei-Min Huang's collaborations with the College of Health (McAndrew on influenza forecasting), Civil and Environmental Engineering (Bocchini on bat carrying capacity and infrastructure), and Chemical and Biomolecular Engineering (Rangarajan and Baltrusaitis on plasma reforming optimization) are the central documented examples.

Carlisle's neuroimaging collaborations with Yu Zhang and clinical psychiatry colleagues outside Lehigh apply normative modeling and machine learning to EEG functional connectivity in psychiatric populations. Arrington's intelligent tutoring system work with Erin Solovey (Worcester Polytechnic) and her cognitive science team lead role in the Lehigh Presidential Nano-Human Interface Initiative are the foundational HCI-and-cognition collaborations from CAS.

Mellon Digital Humanities Initiative Research Output

The MDHI's research output is largely community-engaged digital humanities projects rather than AI research per se. The published project list includes documentary films, digital archives of Bethlehem industrial history, and oral history projects. None of the documented MDHI projects are framed as AI research in available sources.

Lehigh AI Future Maker Strategy Grant Contributions

Thirteen of the twenty-six contributors to the 2024 Lehigh AI Future Maker Strategy Grant cohort were affiliated with CAS — the largest single-college share, more than the rest of the colleges combined. Project topics drawn from the published Lehigh AI Preserve sub-collection include AI ethics and pedagogy, AI in journalism workflows, AI in language teaching, AI in writing instruction, and AI literacy frameworks. The full Lehigh AI sub-collection is published at preserve.lehigh.edu.

2.6 Events & Programming

CAS Faculty in the AI@Lehigh Summit Series

CAS faculty are central to both AI@Lehigh Summits documented in Unit 7. Haiyan Jia (Journalism and Communication) served on the *Using AI in Teaching and Learning at Lehigh* panel at the second annual summit (January 13, 2026), and Dominic Packer (Psychology, Vice Provost) chaired the same panel and delivered opening remarks alongside Greg Reihman. The full summit programs are documented in Unit 7.

CITL Symposium on Teaching and Learning

The 15th annual CITL Symposium on Teaching and Learning, held over two days in April 2024, was themed on generative AI and teaching and learning. More than 100 community members attended and 23 faculty presenters showcased AI-related projects. CITL Symposium presenter rosters typically include CAS faculty alongside Engineering, Business, Health, and Education colleagues; the full presenter list is not surfaced in available sources beyond the topline figures. The CITL Symposium is documented in Unit 8 and Unit 7.

Touchstone Theatre — *Alice in Informationland*

On October 8, 2025, Touchstone Theatre presented *Alice in Informationland* at Linderman Library, an interactive production exploring AI ethics, misinformation, data ethics, algorithmic bias, and human-machine interaction through an *Alice in Wonderland* lens. The show was created by Touchstone ensemble members Jp Jordan, Christopher Shorr, and Matt Prideaux (director), in conversation with Lehigh Libraries staff, and was commissioned by the Friends of the Lehigh University Libraries. The

associated *Informationland: The Past and Future of Libraries* Special Collections exhibit at Linderman Library traces libraries' role from clay tablets to AI and was on view through December 2025. Touchstone Theatre is a Bethlehem-based community theatre on East Fourth Street, not a CAS unit; the production is a community partnership with Lehigh Libraries (documented at length in Unit 8). The CAS connection is geographical and cultural rather than a direct CAS Theatre department production.

Mellon Digital Humanities Initiative Workshops

MDHI hosts on-campus workshops in digital humanities methods and supplements them with funding for off-site digital humanities training. Workshop topics historically center on digital archives, oral histories, mapping, and community-engaged digital methods rather than AI per se.

Gaps and Observations

CAS is the largest and most heterogeneous Lehigh college, and the inventory's CAS-side documentation is consequently uneven. Several specific gaps and observations are worth noting.

The full list of thirteen CAS-affiliated contributors to the 2024 Lehigh AI Future Maker Strategy Grant program is not enumerated in this dossier. The Lehigh AI Preserve sub-collection at preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai is the canonical source and contains all twenty project summaries with department affiliations; the dossier cites the topline distribution rather than each individual project. A deepening pass that enumerates each CAS-affiliated project with title, contributors, and department would tighten the spine.

The full Lehigh AI Tutor Project 35-faculty cohort roster is not published, so the specific CAS faculty in the cohort cannot be enumerated. This applies equally to all five colleges' Tutor Project participation.

Padraig O'Seaghdha is listed in the I-DISC Psychology faculty cluster across the inventory, but his current emeritus status means his AI relevance is historical rather than active. The I-DISC published roster has not been updated to reflect his emeritus status, so the inventory's reliance on the I-DISC roster overstates his current activity. This is a small data hygiene observation rather than a substantive correction.

Kate Arrington's faculty page at psychology.cas.lehigh.edu describes her as "currently directing Lehigh's Institute for Data, Intelligent Systems, and Computation," which is stale. She was Associate Director of I-DISC and stepped down as part of the August 2025 leadership transition documented in Unit 6, with Héctor Muñoz-Avila returning as Director. Her current role is Department Chair of Psychology. The Psychology faculty page should be considered a stale source on this point.

The CAS Theatre department's direct involvement in *Alice in Informationland* is not documented in available sources; the production is Touchstone Ensemble + Lehigh Libraries + Friends of the Lehigh University Libraries. CAS Theatre faculty member Melpomene Katakalos appears in the inventory only via her role on the Flowers dean search committee, not as a documented contributor to AI-related programming.

The Department of Modern Languages and Literature, the Department of History, the Department of Sociology and Anthropology, and the Department of Religion Studies are not covered in this dossier because no AI-relevant public-source signal surfaces for them. This is not a claim that AI-relevant work is absent; it is a claim that the available public sources do not document it. A second-pass deepening could check department news pages, faculty grant databases, and conference participation for additional signal.

The College's \$14M+ in 2024-25 research expenditures is the topline figure published by the College and includes the full research portfolio. The AI-and-ML share of those expenditures is not separately reported.

The Mellon Digital Humanities Initiative does not currently have a documented institutional connection to the AI Readiness initiative or the LLM Gateway. The Initiative's positioning as digital-humanities infrastructure with potential but not actualized AI integration is a notable gap given CAS's otherwise heavy involvement in the Future Maker grant cohort.

Cross-References

- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** Dominic Packer (Psychology) is Vice Provost for Educational Innovation and Assessment and leads the AI Readiness initiative; Haiyan Jia (Journalism and Communication) is a founding GenAI Advisory Group member and Lehigh AI program co-lead.
- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** The CAS-track BS and BA in Computer Science are taught by CSE faculty under Rossin Engineering; the Mathematics department contributes I-DISC faculty (Wei-Min Huang, Garth Isaak); Lifang He (CSE) is co-PI on Chinedu Ekuma's \$800K DOE grant.
- **I-DISC (Unit 6):** Eight CAS faculty are listed in the I-DISC affiliated faculty roster (Arrington, Carlisle, Hupbach, O'Seaghdha emeritus, Packer, Huang, Isaak, Jia, Kramp, Ekuma), and Ekuma serves on the I-DISC Faculty Advisory Council; the I-DISC Machine Learning in Materials Science research group includes Ekuma and Lisa Fredin (Chemistry, CAS).
- **College of Business (Unit 3):** Greg Surovcik (Decision and Technology Analytics) co-leads the Lehigh AI Future Maker Strategy Grant program with Jia.
- **College of Education (Unit 5):** Zilong Pan (Teaching, Learning and Technology) co-leads the Lehigh AI Future Maker Strategy Grant program with Jia; CAS contributes 13 of 26 Future Maker contributors.
- **College of Health (Unit 4):** Wei-Min Huang's collaboration with Thomas McAndrew (Biostatistics and Health Data Science) on the CAP Ensemble influenza forecasting algorithm is the strongest documented CAS-Health AI/ML research bridge.
- **Library and Technology Services cluster (Unit 8):** The Mellon Digital Humanities Initiative draws on LTS digital scholarship support; Touchstone Theatre's *Alice in Informationland* and the Linderman Library *Informationland* exhibit are LTS-run collaborations; subject librarians (Heather Simoneau for Humanities, Tricia Martone for

Science/Math/Psychology, Elizabeth Young Miller for Social Sciences) support CAS faculty on AI literacy outreach.

- **Office of Research (Unit 9):** CAS-led federal grants (Ekuma DOE) flow through the Office of Research's grant administration and IRB structures.
- **Part I, Section I (Institutional AI Governance Architecture):** Packer's and Jia's Provost-cluster roles anchor CAS's contribution to institutional AI governance.
- **Part I, Section VIII (Infrastructure & Strategic Investment Signals):** Ekuma's \$800K DOE grant is a documented federal AI investment landing in CAS Physics.

Sources

Lehigh Preserve — *Lehigh AI* sub-collection landing page documenting the 20-project Future Maker Strategy Grant cohort, 26 contributors, and college affiliation breakdown (13 CAS / 3 Engineering / 3 Business / 3 Education / 2 Health / 2 LTS)
<https://preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai>

Rossin Engineering — *Lehigh awarded \$800K DOE grant for advanced computational materials modeling* announcing Chinedu Ekuma (Lehigh Physics) as PI with co-PIs Akwum Onwunta (Lehigh ISE), Lifang He (Lehigh CSE), and Bao Wang (Utah)
<https://engineering.lehigh.edu/news/article/lehigh-awarded-800k-doe-grant-advanced-computational-materials-modeling>

Lehigh University — *Top 5 Things to Know About the College of Arts and Sciences* topline figures including 18 departments, 10 interdisciplinary programs, 6 research centers, 2,188 undergraduates, 322 graduate students, 68 majors, 56 minors, 40% of Lehigh undergraduates served, and \$14M+ research expenditures in 2024-25
<https://alumni.lehigh.edu/news-blog/top-5-things-know-about-college-arts-and-sciences>

Lehigh University News — *Robert Flowers Named New Dean of College of Arts and Sciences*, documenting Flowers's appointment as 11th CAS dean and 4th Siegel deanship holder, his career arc from Lehigh chemistry chair to deputy provost to dean, his AAAS and Royal Society of Chemistry fellowships, and the search committee composition (Scott Gordon, Kathy Olson, Melpomene Katakalos, Jennifer Swann)
<https://news.lehigh.edu/robert-flowers-named-new-dean-of-college-of-arts-and-sciences>

Lehigh University News — *Robert A. Flowers Installed as Dean of College of Arts and Sciences*, documenting the installation and Flowers's installation address framing the humanities and social sciences as central to addressing 21st-century challenges
<https://news.lehigh.edu/robert-a-flowers-installed-as-dean-of-college-of-arts-and-sciences>

Lehigh Office of the Provost — *Teaching at Lehigh: Policies, Guidance, and Syllabus Statements*, explicit statement that Lehigh has no uniform AI policy in courses
<https://provost.lehigh.edu/teaching-lehigh-policies-guidance-and-syllabus-statements>

Lehigh University News — *Lehigh Rings in New Year with New Summit Exploring Generative AI* (February 2025), inaugural AI@Lehigh Summit with Advisory Group founding members announced
<https://news.lehigh.edu/lehigh-rings-in-new-year-with-new-summit-exploring-generative-ai>

Lehigh College of Arts and Sciences — *College Leadership* page identifying Robert Flowers (Dean) and the associate deans (Dawn Keetley, R. Michael Burger, Kelly Austin, Jessecac Marsh)
<https://cas.lehigh.edu/about-us/college-leadership>

Lehigh Office of the Provost — Dominic Packer Vice Provost page (Vice Provost for Educational Innovation and Assessment and Senior Advisor to the Vice Provost for Research)
<https://provost.lehigh.edu/organization/vice-provosts/dominic-packer>

Lehigh Department of Psychology — Kate Arrington faculty profile (chair of Psychology, former I-DISC Associate Director, fNIRS multimodal learning interface research with Solovey, NHI cognitive science team lead)
<https://psychology.cas.lehigh.edu/faculty-staff/kate-arrington>

Lehigh Department of Psychology — Nancy Carlisle faculty profile (CAMLab director, Psychology Director of Graduate Studies, EEG functional connectivity work in autism and antidepressant response with Tong, Xie, Fonzo, Satterthwaite, Zhang)

<https://psychology.cas.lehigh.edu/faculty-staff/nancy-carlisle>

Lehigh Department of Psychology — Almut Hupbach faculty page documenting her memory research portfolio

<https://psychology.cas.lehigh.edu/faculty-staff/almut-hupbach>

Lehigh Department of Psychology — Padraig O'Seaghdha faculty page identifying him as Professor Emeritus

<https://psychology.cas.lehigh.edu/faculty-staff/padraig-oseaghdha>

Haiyan Jia LinkedIn — career chronology including Penn State PhD (2014), Penn State postdoc (2014-16), Lehigh Assistant Professor (2016-24), Lehigh Associate Professor (2024-present), and the Department of Journalism and Communication / Cognitive Science Program / Digital Media Lab affiliations

<https://www.linkedin.com/in/haiyanjia/>

Google Scholar — Haiyan Jia citation profile and research areas (Communication Technology, Data Journalism, Human-Computer Interaction, Information Privacy, Health Communication)

<https://scholar.google.com/citations?user=oskVUNEAAAAJ&hl=en>

LTS — *AI@Lehigh Summit 2026* event page with the second annual summit panelist roster (Packer chair; Jia, McIntosh, Young, O'Keeffe, Pan, Rovella, Sivakumar)

<https://lts.lehigh.edu/ailehigh-summit-2026>

Lehigh University News — Haiyan Jia tag page covering her Lehigh research profile including the dataset search engine prototype

<https://news.lehigh.edu/tags/haiyan-jia>

The Brown and White — *Search for new College of Arts and Sciences dean* identifying Jack Lule as chair of the Department of Journalism and Communication and a member of the dean search committee

<https://thebrownandwhite.com/2019/10/29/search-for-a-new-lehigh-college-of-arts-and-sciences-dean-continues/>

Ekuma Computational Physics Group, Lehigh University — group site (Google Sites) documenting Chinedu Ekuma's research at the intersection of theory, computation, and data-driven discovery (ab initio DFT, GW method, machine learning, materials informatics), his prior positions at the Army Research Laboratory and Naval Research Laboratory, and the group's open-source AI tool development including PropertyExtractor (LLM-based scholarly data extraction) and the 2D material thickness prediction toolkit using ML and LLM-autogenerated datasets [Physics faculty profile page and cekumagroup.cas.lehigh.edu subdomain both decommissioned; group content consolidated to Google Sites]

<https://sites.google.com/lehigh.edu/computational-physics>

I-DISC — *Machine Learning in Materials Science* research group page listing Ekuma (Physics, CAS), Lisa Fredin (Chemistry, CAS), and Ganesh Balasubramanian (Mechanical Engineering and Mechanics, RCEAS) as members

<https://idisc.lehigh.edu/research/machine-learning-materials-science>

Lehigh Department of Mathematics — Wei-Min Huang faculty profile describing his research on information-based statistical inference, semiparametric modeling, and machine learning, and his Department Chair tenure (2007-2016 and Interim fall 2018)

<https://math.cas.lehigh.edu/faculty-staff/wei-min-huang>

Wei-Min Huang personal page — recent publications including the Cluster-Aggregate-Pool Ensemble Algorithm for influenza-like illness forecasting (with Wei, Zhou, McAndrew), bat carrying capacity in Africa (with Mursel, Conus, Bocchini), and plasma-catalyzed methane reforming optimization (with Gonzalez-Casamachin, Qin, Rangarajan, Zhang, Baltrusaitis)

<https://www.lehigh.edu/~wh02/wh02.html>

Lehigh Department of Mathematics — Garth Isaak faculty profile and research page documenting his graph theory, combinatorics, and pebbling games research and his RUTCOR PhD; Lehigh Mathematics Department Chair contact information

<https://math.cas.lehigh.edu/faculty-staff/garth-isaak>

Mellon Digital Humanities Initiative — Edward Whitley Director identification and Community Partner Grants page contact information [subdomain effectively dormant as of April 2026; renders generic CAS home rather than DH-specific landing]
<https://digitalhumanities.cas.lehigh.edu/>

Lehigh Library Guides — *DH @ Lehigh* page identifying Edward Whitley as creator of *The Vault at Pfaff's*, enumerating Lehigh-side digital humanities projects (*Beyond Steel*, *History on Trial*, *Still Looking for You*), and identifying MDHI as a primary DH resource
<https://libraryguides.lehigh.edu/digitalhumanities/dh@lehigh>

Lehigh University News — *Lehigh Receives Andrew W. Mellon Foundation Grant to Infuse Humanities Across Academic Culture* identifying Suzanne Edwards (Director of the Humanities Center) as the lead faculty contact for the larger Mellon humanities grant
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Rossin Engineering CSE — *Computer Science (B.A., B.S. in CAS)* program page documenting the CAS-track CS BA and BS programs (127 credit hours for BS-CAS vs. 130 for BS-Rossin)
<https://engineering.lehigh.edu/cse/academics/undergraduate/computer-science-ba-bs-cas>

Lehigh University Catalog — *Computer Science and Engineering* page documenting the data science minor and the CSE-administered curriculum
<https://catalog.lehigh.edu/coursesprogramsandcurricula/engineeringandappliedscience/computerscienceandengineering/>

Coursicle Lehigh — MATH 012 *Basic Statistics and Data Science* instructor list (Berger, Isaak, Qin, Wei, Dayton, Su, Zhao, Guo, Kim, Boldin, Ewungkem, Chen, Dyson, Stock, Bandyopadhyay)
<https://www.coursicle.com/lehigh/courses/MATH/012/>

Lehigh CAS — *Mellon Foundation Grant Supports Digital Media Initiative* announcement of the original \$800K three-year Mellon grant for *Engaging Undergraduates with the Local Community through the Digital Humanities*; Edward Whitley as project director; description of course development grants, community partner grants, and undergraduate research grants
<https://cas.cas2.lehigh.edu/content/mellon-foundation-grant-supports-digital-media-initiative-0>

LTS — Ilena Key, Ed.D. profile page documenting her current role as AVP for ITS and CIO; her earlier affiliation with the Mellon Digital Humanities Initiative is referenced here but the MDHI affiliated-faculty listing page is no longer active
<https://lts.lehigh.edu/profile/ilena-key-edd>

Lehigh LTS Annual Report 2023-24 — 15th CITL Symposium on Teaching and Learning generative AI theme, 100+ attendees, 23 faculty presenters
https://flippingbook.lehigh.edu/LTS-Annual-Report_2024/

The Brown and White — *Informationland transforms Linderman Library into a digital wonderland* (October 2025) documenting *Alice in Informationland* creators (Touchstone ensemble members Jp Jordan, Christopher Shorr, Matt Prideaux), the partnership with Lehigh Libraries, and the Friends of the Lehigh University Libraries commission
<https://thebrownandwhite.com/2025/10/09/informationland-transforms-linderman-library-into-a-digital-wonderland/>

3.

College of Business

KEY SIGNALS

The College of Business is the only Lehigh college that has organized its entire 2024-25 and 2025-26 academic years around AI as a college-wide theme. The 2024-25 Year of Learning was *Generative AI in Business: Opportunities and Challenges*, and the 2025-26 Year of Learning is *AI at Work: New Roles & Smarter Systems*. The College has stood up a dedicated AI in Business Research Lab (AI-BRL) with three faculty co-directors from the Department of Decision and Technology Analytics — Michael Rivera, Burak Eskici, and Kofi Arhin — and an Executive Education AI catalog operating out of the Vistex Institute that offers four standing AI-focused programs (Introduction to Generative AI, AI + Problem Solving, AI + Analytics, AI in HR). The College jointly administers the Computer Science and Business Honors Program (CSB) with the Computer Science and Engineering department in Rossin Engineering, the only program of its kind accredited in both AACSB Business and ABET Computing in the United States. The College's Marketing department is the source of two of Lehigh's most directly AI-relevant *Journal of Marketing* publications in available sources — Beibei Dong, Mengzhou Zhuang, Eric Fang, and Minxue Huang's *Tales of Two Channels: Digital Advertising Performance Between AI Recommendation and User Subscription Channels* (2024) and the Eric Fang-led *We Earned the Coupon Together* (2023) — and is led by Department Chair K. Sivakumar, who served on the *Using AI in Teaching and Learning at Lehigh* panel at the 2026 AI@Lehigh Summit.

The College of Business enrolls approximately 1,300 business undergraduates, 400 business and engineering undergraduates (through the joint CSB, IBE, and IBH programs), and 300 graduate students. Its physical home is the 74,000-square-foot Business Innovation Building (Tauck Family Lobby) and the Rauch Business Center. The College is led by Manoj K. Malhotra, Kevin L. and Lisa A. Clayton Dean, who joined Lehigh on July 1, 2024, succeeding Georgette Chapman Phillips after her two five-year terms. Six departments make up the College: Accounting, Decision and Technology Analytics (DATA, formerly often abbreviated DTA), Economics, Perella Department of Finance, Management, and Marketing.

3.1 Governance & Policy

The College of Business does not maintain its own formal AI policy distinct from the institutional Lehigh frameworks documented in Unit 7 and Unit 8. Faculty operate under the same Acceptable Use of Computing Systems Policy, Data Classification Framework, and *AI Principles, Policies and Expectations* as the rest of the university, and follow the three CITL syllabus options under the Provost's non-uniform policy on student AI use.

The College's institutional AI posture surfaces through three distinct mechanisms.

Dean's Public Stance and AI Coordinator

In his first public interview as Dean (December 2024), Malhotra stated that AI "is here to stay, and we need to responsibly embrace it in order to remain competitive and ahead of the curve" and announced two specific structural commitments: (a) the appointment of an "AI coordinator to interface with the other colleges" and (b) the launch of "a new data department" with a national search for a stellar chair. The data department was the Department of Decision and Technology Analytics (DATA), and the chair search produced **Jennifer Ryan**, who joined Lehigh from the University of Nebraska-Lincoln as Frank L. Magee Professor and DATA Department Chair effective July 2025. The "AI coordinator" function appears in available sources to have been operationalized as the AI in Business Research Lab (AI-BRL) co-directorship structure rather than as a single individual coordinator role. The AI-BRL is documented in 3.5 below.

Year of Learning as a College-Wide AI Frame

The College of Business runs a college-wide Year of Learning initiative that focuses students and faculty on a particular area of interest through classroom activities and campus events. Two consecutive Years of Learning have been organized around AI:

- **2024-25:** *Generative AI in Business: Opportunities and Challenges* — the theme of the Lehigh Business magazine Issue No. 10, with cover stories on AI in classroom integration, faculty research on AI bias in finance, and AI in marketing pedagogy.
- **2025-26:** *AI at Work: New Roles & Smarter Systems* — the theme of Lehigh Business magazine Issue No. 11, focused on how "AI moves from experimentation to daily business practice" and on the workforce, leadership, and ethical implications of integrating intelligent systems into business operations.

The Year of Learning runs through curriculum embedding, the Lehigh Business magazine, the iLLUminate podcast, the Donald M. Gruhn '49 Distinguished Finance Speaker Series, and the spring Year of Learning lecture (the spring 2025 lecture was delivered by Ramayya Krishnan, Dean of Carnegie Mellon's Heinz College of Information Systems and Public Policy and chair of the AI Futures Group of the National AI Advisory Committee). The two consecutive AI-themed Years of Learning are the most explicit college-wide AI commitment by any Lehigh college in available sources.

AI-BRL as Institutional Research Infrastructure

The AI in Business Research Lab (AI-BRL) is the College's formal research center on AI and business. It is directed by three faculty co-directors from the DATA department — Michael Rivera, Burak Eskici, and Kofi Arhin — and is structured around five activity areas: research and publications, student engagement, an AI & Analytics Speaker Series, translational research for business audiences, and executive education program development. The AI-BRL is part of the College's broader portfolio of research centers (alongside Vistex Institute for Executive Education, Behavioral Lab, Center for Financial Services, and others) and is the primary institutional vehicle for College-of-Business AI research and external engagement. Its operational documentation is light in available public sources

beyond the team page and a brief mission statement; specific publications, speaker series events, and student research outputs are not surfaced.

3.2 People

This section covers documented AI-relevant Business faculty across the six departments and the Dean's office. Inclusion is restricted to faculty whose AI-relevant work surfaces through teaching, research, governance, or external engagement in available public sources.

Dean's Office

Manoj K. Malhotra — Kevin L. and Lisa A. Clayton Dean of the College of Business; Professor of Decision and Technology Analytics. Office RBC 109. Malhotra was named dean following a national search and joined Lehigh July 1, 2024, succeeding Georgette Chapman Phillips. He was formally installed September 19, 2024 in the Tauck Family Lobby of the Business Innovation Building. Prior positions include Dean of the Weatherhead School of Management at Case Western Reserve University (5-year term, ending August 2022) and 27 years as professor and department chair at the University of South Carolina's Darla Moore School of Business, where he founded the Center for Global Supply and Process Management with industry partners including BMW, Coca-Cola Bottling, Delta, Ingersoll Rand, Johnson & Johnson, Michelin, Siemens, and Walmart. Malhotra's research is in operations management and supply chain strategy. He is a Fellow of the Decision Sciences Institute (DSI) and the Production and Operations Management Society (POMS), past President of POMS (2017), and co-author of the leading textbook *Operations Management: Processes and Supply Chains* (Krajewski and Malhotra, 14th edition, 2025). His Ph.D. is from Ohio State and his B.Tech is from the Indian Institute of Technology.

Paul Brockman — Senior Associate Dean for Faculty and Research. **Burak Eskici** — Associate Dean of Graduate Programs (also DATA faculty, AI-BRL co-director, and CSB Honors Program co-director). **Naomi Rothman** — Associate Dean and Director of Undergraduate Programs (Management department). **Sarah Andrews** — Executive Director of the Vistex Institute for Executive Education.

Department of Decision and Technology Analytics (DATA)

DATA is the College's primary AI/ML/analytics department and the institutional home of all three AI-BRL co-directors. The department's mission is "to pursue excellence in the integrated practices of decision systems, technology analytics, and business processes of the value chain" through information systems and supply chain management research and teaching.

Jennifer K. Ryan — Frank L. Magee Professor and Department Chair, DATA. Ryan joined Lehigh July 2025 from the University of Nebraska-Lincoln, where she served as inaugural Department Chair for Supply Chain Management and Analytics and held the Van Horne Family Endowed Chair in Business. Her Ph.D. is from Northwestern. Her research and teaching are in inventory management, supply chain management, and applied stochastic modeling, with publications in *Management Science*, *Operations Research*, *Manufacturing & Service Operations Management*, *Production and Operations Management*,

Decision Sciences, and *IIE Transactions*. She is an NSF CAREER recipient and is currently co-PI on an active NSF grant.

Michael Rivera — Assistant Professor of Business Information Systems, DATA; AI-BRL Faculty Co-Director. Rivera received his Ph.D. from Purdue and joined Lehigh from a faculty position at Temple. His current research focuses on real-time feedback, digital transformation, and digital leadership, with publications in *Information Systems Research*. His teaching primarily centers on machine learning and AI strategy. He is co-founder of two technology startups and has consulted for Lockheed Martin, Mars Wrigley, Subaru, and American Airlines. He is the lead instructor for several of the College's Executive Education AI programs (Introduction to Generative AI, AI + Problem Solving, AI + Analytics). In November 2024 he co-submitted (with Xiaosong David Peng) a Future Maker Limited Submission Grant proposal titled *Becoming a Future Maker: Pioneering an Online MS in AI Leadership*, awarded in February 2025. He was the College of Business spokesperson on the September 2024 iLLUminate podcast episode *Michael Rivera on Opportunities and Challenges of AI in Business*, which framed the 2024-25 Year of Learning theme.

Burak Eskici — Teaching Assistant Professor, DATA; Associate Dean of Graduate Programs; AI-BRL Faculty Co-Director; College of Business co-director of the CSB Honors Program. Ph.D. and M.A. in Sociology from Harvard University with specialization in computational social science and quantitative methods; B.S. and M.S. in Industrial Engineering from Boğaziçi University in Turkey. Prior positions: Senior Lecturer at Harvard, Research Program Director at the World Bank (focused on digital development and financial inclusion), Research Program Director at the University of California San Diego, and J-PAL South Asia. He teaches courses in computing, data science, quantitative methods, and AI at undergraduate and graduate levels. Email bue222@lehigh.edu.

Kofi Arhin — Assistant Professor, DATA; AI-BRL Faculty Co-Director; I-DISC affiliated faculty (the only DATA faculty member on the I-DISC roster in available sources). Ph.D. Rensselaer Polytechnic Institute. Arhin teaches a standing undergraduate course called *AI for Business* in the DATA department, in which students "explore the challenges, risks, benefits and opportunities of using AI technology" through hands-on exercises with generative AI tools and real datasets — including documented classroom demonstrations of AI hallucination behavior on small business datasets.

Rudolph "Greg" Surovcik — Visiting Lecturer, DATA, in Business Analytics and Information Systems. Lehigh undergraduate alumnus (College of Business and Economics). Surovcik spent approximately 30 years deploying enterprise analytics systems before returning to teach at Lehigh; he designed the underlying AI-based algorithms for Spark Moments and brought the product to market. His research interests are in AI in business strategies and the ethical and societal impacts of technology. Surovcik is one of the four co-leads of the 2024 Lehigh AI Future Maker Strategy Grant program and the College of Business contact for participation (grs3@lehigh.edu), alongside Justin Greenlee (CITL/LTS), Haiyan Jia (CAS Journalism and Communication), and Zilong Pan (Education). He has

delivered an interactive presentation titled *Critical (and impractical) AI: For decision makers amid a hype cycle* for The Management Club at the College of Business.

Xiaosong (David) Peng — Professor, DATA; former Department Chair (predecessor to Jennifer Ryan). Peng is co-applicant with Michael Rivera on the *Becoming a Future Maker: Pioneering an Online MS in AI Leadership* Future Maker Limited Submission Grant. His Ph.D. is from the University of Minnesota.

Henry F. (Hank) Korth — Professor, Computer Science and Engineering (RCEAS), with courtesy appointment in DATA (College of Business). Korth is documented at length in Unit 1 (Engineering) as a CSE faculty member and database systems researcher; his courtesy DATA appointment is a structural connection between the two colleges.

Catherine Ridings — Professor Emerita, DATA. Ridings taught at Lehigh for 23 years, was Director of the Undergraduate Business Information Systems program (2006-2013), and served as interim DATA Department Chair. Her courses spanned Java programming, **Artificial Intelligence**, and database management. She co-hosted the April 2023 iLLUminate podcast episode *The Impact of AI on Universities and Students* with Greg Reihman. Her listing as Professor Emerita reflects her current status; she is referenced in the inventory because her Lehigh teaching included a standing AI course before the current generative AI moment.

Sun Tae Kim — Professor, DATA. Kim served as the prior College of Business co-director of the CSB Honors Program before Burak Eskici took over the role.

Department of Marketing

The Marketing department under Department Chair K. Sivakumar (Syracuse Ph.D., kasg@lehigh.edu) houses the strongest documented Lehigh Business AI research portfolio in available sources, anchored by the joint work of Beibei Dong and Eric Fang on AI-mediated digital advertising and content channels.

K. Sivakumar — Professor and Marketing Department Chair. Sivakumar served on the *Using AI in Teaching and Learning at Lehigh* panel at the second annual AI@Lehigh Summit (January 13, 2026), documented in Unit 7. He is a frequent co-author with Beibei Dong on the customer participation, services marketing, and online review research portfolio.

Beibei "Bacy" Dong — Professor of Marketing and George N. Beckwith '32 Professor (RBC 429, bed209@lehigh.edu). Dong joined the College of Business in July 2009 after a Ph.D. in marketing from the University of Missouri. Her research and teaching interests are in services marketing, digital marketing, and marketing management; her publications appear in the *Journal of Marketing*, *Journal of the Academy of Marketing Science*, *Production and Operations Management*, *Journal of Retailing*, *Journal of Service Research*, *Decision Sciences*, *Journal of International Marketing*, and others. She is Associate Editor of the *Journal of Service Research*. Her most directly AI-relevant publication is the 2024 *Journal of Marketing* article *Tales of Two Channels: Digital Advertising Performance Between AI Recommendation and User Subscription Channels* (Dong, Zhuang, Fang, Huang), which empirically compares the click-through and conversion rate effects of AI-recommended versus user-subscribed content channels for in-feed advertising and

identifies ad intrusiveness as the mediating mechanism. Dong was also the College of Business spokesperson on a 2021 iLLUminate podcast episode titled *Beibei Dong on the Risks of Letting AI Choose Your News*, which examined how AI-recommended news feeds shape user behavior and exposure. During the spring 2024 semester she integrated generative AI into two of her marketing courses — a marketing foundation class for first- and second-year students and a service innovation course for upper-level students — having students brainstorm new product ideas, develop AI-generated product prototypes, and create marketing campaigns including AI-generated advertisements, Instagram posts, blog posts, and podcasts.

Eric (Er) Fang — Professor of Marketing, Iacocca Chair of Business Administration, and Director of the Center for Digital Marketing Strategy and Analytics. Ph.D. University of Missouri-Columbia. Fang's recent publications directly relevant to AI in marketing include the 2026 *Journal of Marketing Research* conditional acceptance *Tailoring Personalization Across Customer Stages: Mitigating Name Personalization Backfire with Sender and Content Personalization Strategies* (Zhuang, Fang, Dong, and Dong); the forthcoming *Journal of Marketing* (2025) *Multichannel Effects of Mobile Infeed Advertising* (Li, Zhuang, Fang); the 2024 *Production and Operations Management* article *Swimming with the Shark: The Effects of Platform Price Promotion and In-Platform Advertising on Third-Party Retailer Performance in Hybrid Online Retailing* (Sun, Fang, Dong, Li); and the 2023 *Journal of Marketing* article *We Earned the Coupon Together: The Missing Link of Experience Cocreation in Shared Coupons* (Fang, Dong, Zhuang, Cai, equal authorship). Fang directs the Center for Digital Marketing Strategy and Analytics, the College's research center on digital marketing data and AI applications.

Marketing Department Faculty Roster (additional). Ravi Chitturi (Ph.D. UT Austin); Nevena Koukova (Ph.D. Maryland); Marina Puzakova (Ph.D. Drexel); Rebecca Wang (Ph.D. Northwestern, also a founding member of the I-DISC Faculty Council documented in Unit 6); Daniel Zane (Ph.D. Ohio State, recent assistant professor); Ludovica Cesareo (Ph.D. Rome); Sae Hoon Chang (Ph.D. Queen's); Laura Smarandescu (Ph.D. South Carolina); Deirdre Malacrea (Harvard MBA). AI-relevant research output for these faculty is not consolidated in available sources beyond Dong, Fang, and Sivakumar.

Perella Department of Finance

McKay Price — Webster A. Collins and Murray H. Goodman Chair in Real Estate Finance; Department Chair, Perella Department of Finance. Price was the lead Finance department voice in the *Generative AI in Business* coverage and framed AI as a tool analogous to the calculator: "Our students need to be able to use the tool appropriately, effectively and efficiently. They'll be expected to use it when they get out into the workplace." Price was a co-investigator on a Finance department study examining racial bias in major generative AI platforms (including ChatGPT) in mortgage lending decisions, with assistant professor **Don Bowen**, associate professor **Ke Yang**, and Babson finance assistant professor **Luke Stein**. The study originated as a 2023 FinTech Capstone Group project led by Bowen and used real-world Home Mortgage Disclosure Act application data, manipulating only the applicant's credit score and race to test the AI platforms "like they were banks or mortgage

brokers." This is the most prominent documented Finance department generative AI research project in available sources.

Don Bowen — Assistant Professor, Perella Department of Finance. PI on the FinTech Capstone Group AI mortgage bias pilot study and co-author on the broader generative AI mortgage discrimination study with Price, Yang, and Stein.

Ke Yang — Associate Professor, Perella Department of Finance. Co-author on the AI mortgage bias study.

Department of Accounting

Bright Asante-Appiah — Assistant Professor of Accounting. Asante-Appiah was a featured Accounting voice in the *Generative AI in Business* coverage, advocating for "teaching methods that prepare students for a future where AI will play a significant role in the workplace." Available sources do not document standalone AI research output from the Accounting department beyond his teaching commentary.

Department of Economics

Chad Meyerhoefer — Professor and Department Chair, Economics. **Fabio Gómez-Rodríguez** — Assistant Professor of Economics; commented on AI and the future of work in the *Generative AI in Business* coverage, framing creativity as the durable human contribution in human-AI collaboration. **Alberto Lamadrid** — Associate Professor of Economics; documented in Unit 6 as the I-DISC Faculty Council member from the College of Business and as Director of I-CPIE (Institute for Cyber Physical Infrastructure and Energy) effective August 2025; holds a Kane Faculty Fellowship. **Andrew Olenski** — Assistant Professor of Economics; AI-relevant research portfolio not surfaced in available sources beyond his role in the magazine issue.

Department of Management

Andrew Ward — Professor and Department Chair, Management. **Naomi Rothman** — Professor, Management; Associate Dean and Director of Undergraduate Programs. The Management department's AI-relevant teaching and research footprint is not consolidated in available sources beyond the leadership roles.

3.3 Teaching & Curriculum

Computer Science and Business Honors Program (CSB)

The College of Business and the Computer Science and Engineering department in Rossin Engineering jointly offer the Computer Science and Business Honors Program, a 136-credit-hour degree integrating computer science and business in approximately equal thirds along with one third of liberal arts coursework. CSB is the only degree program in the United States accredited in both computer science (ABET Computing Accreditation Commission) and business (AACSB International). Students enroll into the program directly from matriculation (or transfer in after the first year) and are assigned faculty advisors from both colleges. The CSB program is co-directed by

George Witmer, Professor of Practice in CSE (gsw2@lehigh.edu, Engineering side), and **Burak Eskici**, DATA faculty and Associate Dean of Graduate Programs in the College of Business (bue222@lehigh.edu, Business side). Sun Tae Kim (DATA) was the prior College of Business co-director. CSB graduates are equipped for roles spanning CIO, decision-maker, and general manager positions in technology-intensive organizations. The Computer Science and Business Association (CSBA) is the student organization. CSB is documented from the Engineering side in Unit 1 (under Honors Programs) and from the Business side here.

Integrated Business and Engineering (IBE)

The Integrated Business and Engineering Honors Program is jointly administered with Rossin Engineering and is documented from the Engineering side in Unit 1. Co-directors are Richard J. Kish (Finance, College of Business) and Ana Alexandrescu (ISE, Engineering). IBE graduates may also pursue a second BS in computer science by satisfying additional capstone requirements; the program has its own technical capstone project that overlaps with CSB and CS degree requirements.

Integrated Business and Health (IBH)

The College of Business and the College of Health jointly offer the Integrated Business and Health Honors Program, a similar inter-college honors structure to CSB and IBE. IBH is documented from the Health side in Unit 4 (when drafted).

Undergraduate Business Analytics Major and Minor

The DATA department offers undergraduate majors and minors in Business Analytics, Business Information Systems, and Supply Chain Management. The Business Analytics major was added to the College's undergraduate portfolio under former Dean Phillips's curriculum overhaul, alongside minors in fintech and international business. Business Analytics is the College's most direct undergraduate AI/ML on-ramp; students take the standing analytics, statistics, and business information systems sequence administered by DATA faculty. Specific course-level AI integration is documented in Beibei Dong's spring 2024 generative AI integration in two marketing courses (3.2 above).

MS in Business Analytics

The College offers an MS in Business Analytics through the Graduate Programs Office, with an accelerated track for Lehigh undergraduates. The program is the College's most direct master's-level analytics credential and provides the foundation for AI/ML-adjacent professional work.

MS in Financial Engineering

The MS in Financial Engineering is a quantitative master's program that includes data analytics and modeling coursework relevant to AI in finance applications. Specific AI-focused coursework is not enumerated in available sources.

Online MS in AI Leadership (in development)

In February 2025, the College of Business received a Future Maker Limited Submission Grant for *Becoming a Future Maker: Pioneering an Online MS in AI Leadership*, submitted by Michael Rivera and David

Peng. The grant funds the design and launch planning for an online graduate program in AI leadership. The program's launch date and curriculum details are not yet publicly available in the sources surfaced for this dossier.

FLEX MBA and One-Year MBA

The College's flagship MBA programs include the One-Year (1-MBA) full-time program (modeled after leading European programs and launched under former Dean Phillips), the part-time online FLEX MBA, the joint FLEX MBA & Educational Leadership program, the joint FLEX MBA & Engineering program, and the joint MBA/MPH with the College of Health. The FLEX MBA is currently ranked No. 26 in U.S. News & World Report's Best Online MBA Programs (2026). AI-specific coursework within the MBA programs is not enumerated in available public sources beyond the broader Year of Learning curriculum framing.

Doctoral Program

The College offers a Ph.D. in Business and Economics. AI-relevant doctoral research surfaces through the Marketing department's AI advertising work (Dong, Fang, Zhuang, Sivakumar) and the DATA department's information systems portfolio (Rivera, Eskici, Arhin).

3.4 Tools & Technology

The College of Business does not maintain its own AI tool stack distinct from the institutional Lehigh infrastructure documented in Unit 8. College of Business faculty access the LLM Gateway, LTS sandbox, Google Gemini, NotebookLM, and other approved tools through the standard institutional pathways. AI-BRL serves as the College's research-side aggregation point for AI tool experimentation but does not maintain its own software stack in available sources.

Vistex Institute for Executive Education AI Catalog

The Vistex Institute for Executive Education, founded by the late Sanjay Shah MBA'89, runs a portfolio of AI-focused executive programs out of the Business Innovation Building's flexible technology-enabled classrooms. As of the snapshot date the catalog includes:

- **Introduction to Generative AI** — One-day in-person workshop or three-session online format. Designed for leaders and managers; no prior AI experience required. Part of the Executive Certificate in AI & Analytics or the Executive Certificate in Leadership. Led by Michael Rivera with two co-instructors.
- **AI + Problem Solving** — Executive workshop on harnessing AI to elevate problem-solving capabilities. Led by Michael Rivera.
- **AI + Analytics** — One-day in-person program (next offering Wednesday, May 6, 2026, 8:30 AM – 4:30 PM). \$1,195 fee includes meals. Pre-built AI assistants used in real-world activities; teach-then-do model.
- **AI in HR: An AI-Empowered Learning Experience** — One-day in-person program (next offering April 2, 2026). Focused on AI in HR function, with personalized action plan deliverable.

The Vistex Institute also offers customized executive programs for organizations and is led by Executive Director **Sarah Andrews**.

Center for Digital Marketing Strategy and Analytics

The Center for Digital Marketing Strategy and Analytics is directed by Eric Fang in the Marketing department and is the College's research center on digital marketing data and analytics applications, including AI-recommended content and advertising research. Beyond Fang's published research portfolio (3.2 above), the Center's standalone operational footprint is not surfaced in available public sources.

Lehigh AI Future Maker Strategy Grant Contributions

Three of the twenty-six contributors to the 2024 Lehigh AI Future Maker Strategy Grant cohort were affiliated with the College of Business (Greg Surovcik as program co-lead, plus contributors to two additional projects). The full distribution of College of Business contributors is documented in Unit 7 and in the Lehigh AI Preserve sub-collection. One of the documented Business projects is Michael Rivera's empirical study *How Does Generative AI Usage Affect the Coding Performance of Developers?*, which uses 27 weeks of proprietary data from a mid-sized global IT organization in a difference-in-differences analysis. The paper sharing the same title was presented at the Hawaii International Conference on System Sciences (HICSS) in January 2025.

3.5 Research & Scholarship

AI in Business Research Lab (AI-BRL)

The AI in Business Research Lab is the College's formal AI research center. It is co-directed by Michael Rivera, Burak Eskici, and Kofi Arhin (all DATA), and structures its activities around research and publications, student engagement, an AI & Analytics Speaker Series, translational research, and executive education. The Lab's mission statement frames its work as "advancing the intersection of artificial intelligence and business through cutting-edge research, real-world applications, and industry collaboration," with the goal of generating "actionable insights, develop[ing] AI-driven business strategies, and explor[ing] the transformative impact of AI on organizations, decision-making, and competitive advantage." Specific research outputs, completed speaker series events, and student research associate cohorts are not enumerated on the Lab's public pages as of the snapshot date.

Marketing Department AI Publication Portfolio

The Marketing department's joint Dong-Fang-Zhuang collaboration is the most directly AI-relevant publication cluster in the College in available sources, with at least three forthcoming or recent papers in *Journal of Marketing*, *Journal of Marketing Research*, and *Production and Operations Management* that center digital advertising, AI-recommended content, in-feed advertising, and personalization (3.2 above). The 2024 *Tales of Two Channels* paper is the most directly AI-themed of the cluster, comparing AI recommendation and user subscription channels for in-feed advertising performance using a controlled empirical design.

Finance Department AI Bias Research

The Finance department's racial bias in generative AI mortgage lending study (Price, Bowen, Yang, Stein) is the most directly AI-themed Finance research surfaced in available sources, originating from a 2023 FinTech Capstone Group student project and growing into a formal research study using HMDA data. Publication venue and status are not specified in available sources.

DATA Department Research

DATA faculty research in information systems and supply chain management spans real-time feedback (Rivera), digital transformation and digital leadership (Rivera), and inventory and applied stochastic modeling (Ryan). Rivera's *How Does Generative AI Usage Affect the Coding Performance of Developers?* (HICSS 2025) is the most directly AI-themed DATA publication surfaced in available sources.

College-Wide Research Productivity

The *Becoming AI Ready at Lehigh* article (January 2026) reports that "Faculty members in the College of Business have had 32 papers in top-tier journals over the past two years" — a college-wide research productivity figure rather than an AI-specific count. The figure is included here for completeness; the breakdown of AI-specific versus non-AI papers within the 32 is not provided in the source.

3.6 Events & Programming

Year of Learning Lecture Series

The College's Year of Learning lecture series is the central programmatic vehicle for the AI-themed academic years. The spring 2025 lecture (under the *Generative AI in Business: Opportunities and Challenges* theme) was delivered by **Ramayya Krishnan**, Dean of Carnegie Mellon's Heinz College of Information Systems and Public Policy and chair of the AI Futures Group of the National AI Advisory Committee. Krishnan's research on responsible AI use and data-driven workforce development directly framed Lehigh Business's articulation of AI-and-business questions.

Donald M. Gruhn '49 Distinguished Finance Speaker Series

The 2025 Donald M. Gruhn '49 Distinguished Finance Speakers Series featured **Carter Lyons '97**, co-CEO of Two Sigma Investments, who discussed AI in the workforce in October 2025. Lyons's appearance is documented in the *Becoming AI Ready at Lehigh* article as part of Lehigh's broader 2025-26 AI public-events programming. The Gruhn Series is an annual finance-focused speaker event in the Perella Department of Finance.

iLUminate Podcast

The Lehigh Business iLUminate podcast (host Jack Croft) has run multiple AI-focused episodes during the 2024-25 and 2025-26 Years of Learning, including:

- *Beibei Dong on the Risks of Letting AI Choose Your News* (2021) — early Marketing-side podcast on AI-recommended news feeds and behavioral effects.

- *Michael Rivera on Opportunities and Challenges of AI in Business* (September 2024) — DATA-side framing of the 2024-25 Year of Learning theme; opportunities, challenges, change management, and 5–10-year outlook.
- *The Impact of AI on Universities and Students* (April 2023) — joint episode with Greg Reihman (Vice Provost for LTS) and Catherine Ridings (then DATA faculty, now Emerita).

The full iLLUminate AI episode catalog is not enumerated in this dossier.

AI@Lehigh Summit Participation

K. Sivakumar (Marketing Chair) served on the *Using AI in Teaching and Learning at Lehigh* panel at the second annual AI@Lehigh Summit (January 13, 2026), documented in Unit 7. Greg Reihman delivered opening remarks at the inaugural Summit and Dominic Packer chaired the second Summit; both events were sponsored by LTS with support from the Provost cluster, Strategic Planning and Initiatives, and Finance and Administration. The Summits are documented at length in Unit 7 and Unit 8.

Business Analytics Speaker Series and AI-BRL Speaker Series

The AI-BRL's stated activities include an AI & Analytics Speaker Series. Specific past or scheduled events are not surfaced in available public sources.

Gaps and Observations

The College of Business has the most explicitly AI-organized programmatic frame of any Lehigh college (two consecutive Years of Learning), and its AI-BRL research center is the only Lehigh research lab in available sources whose name and mission are explicitly anchored on AI in business. At the same time, the AI-BRL's published research outputs, speaker series events, and student research cohorts are not enumerated on its public pages as of the snapshot date. The Lab is documented through its mission statement, team page, and stated activity areas rather than through specific completed projects.

The "AI coordinator to interface with the other colleges" that Malhotra announced in his December 2024 first-interview as Dean does not appear to have been operationalized as a single named individual coordinator role in available sources. The most plausible interpretation is that the AI-BRL co-directorship structure (Rivera, Eskici, Arhin) functions as the institutional AI coordination point. Whether Malhotra still intends to appoint a separate cross-college AI coordinator role is not stated in available sources.

The 32 top-tier papers figure in the *Becoming AI Ready at Lehigh* article is a college-wide research productivity figure, not a count of AI-specific papers. The article's framing places the 32-paper figure adjacent to the AI Readiness narrative without claiming all 32 are AI papers. The dossier reports the figure as published with this clarification.

The Online MS in AI Leadership Future Maker Limited Submission Grant (February 2025, Rivera and Peng) funded program design and launch planning, but the program's actual launch date,

curriculum, target enrollment, and admissions structure are not yet publicly available. This is a tracked target for future deepening.

The Center for Digital Marketing Strategy and Analytics directed by Eric Fang has limited operational documentation in available public sources beyond its association with Fang's research portfolio. Whether the Center has its own staff, budget, student researchers, or programmatic events is not documented.

The College's executive education AI catalog is run out of the Vistex Institute, but the Center for Digital Marketing Strategy and Analytics, the AI-BRL Executive Education function, and the Vistex Institute AI programs are not documented as integrated into a single executive AI offering — they appear to operate as parallel infrastructure. The relationships between them are not made explicit in available sources.

The Marketing department's AI publication cluster (Dong, Fang, Zhuang, Sivakumar) and the Finance department's AI bias research (Price, Bowen, Yang) are the two most clearly documented research projects, but the College does not publish a consolidated AI research bibliography. The dossier captures the strongest documented examples; a consolidated College of Business AI bibliography is not surfaced in available sources.

K. Sivakumar's Marketing department chairship and AI@Lehigh Summit panelist role are documented, but his own AI-relevant research portfolio (beyond his joint authorship with Beibei Dong on customer participation and services marketing topics) is not specifically AI-centered. He functions as the Marketing department voice for AI rather than as a primary AI researcher.

The Catherine Ridings Professor Emerita listing means her standing AI course is historical rather than active, but the standing AI teaching role in DATA has been picked up by Kofi Arhin, who teaches *AI for Business* as a recurring undergraduate offering. Whether other DATA faculty (Rivera, Eskici) hold standing AI-titled courses in addition to *AI for Business* is not consolidated in available sources beyond the Executive Education catalog and the Business Analytics major.

Cross-References

- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** The CSB Honors Program is jointly administered with the CSE department in Engineering; George Witmer (CSE) is the Engineering co-director and Burak Eskici (DATA) is the Business co-director. The IBE Honors Program is jointly administered with ISE; Richard J. Kish (Finance) is the Business co-director. Hank Korth (CSE) holds a courtesy DATA appointment in the College of Business. Bilal Khan (CSE) holds a joint appointment with Health and is documented in Unit 1.
- **College of Arts and Sciences (Unit 2):** Greg Surovcik (DATA) co-leads the Lehigh AI Future Maker Strategy Grant program with Haiyan Jia (CAS Journalism and Communication). The Marketing department's AI advertising research portfolio overlaps thematically with Jia's communication technology research.

- **College of Health (Unit 4):** The IBH Honors Program is jointly administered with the College of Health. The MBA/MPH joint degree connects the College of Business to the College of Health.
- **College of Education (Unit 5):** Greg Surovcik (DATA) co-leads the Lehigh AI Future Maker Strategy Grant program with Zilong Pan (Education).
- **I-DISC (Unit 6):** Kofi Arhin (DATA) is the only DATA faculty member on the I-DISC roster; Alberto Lamadrid (Economics) is on the I-DISC Faculty Advisory Council and is Director of I-CPIE; Kathleen Weiss Hanley (Finance) is on the I-DISC Faculty Advisory Council; Rebecca Wang (Marketing) was a founding member of the I-DISC Faculty Council in 2017.
- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** K. Sivakumar (Marketing Chair) served on the second AI@Lehigh Summit panel; Greg Surovcik co-leads the Lehigh AI Future Maker Strategy Grant program. The Year of Learning programming complements the Provost cluster's institutional AI Readiness initiative.
- **Library and Technology Services cluster (Unit 8):** The College of Business uses the institutional LLM Gateway and approved AI tool stack; Catherine Ridings co-hosted the April 2023 iLLUminate podcast on AI in higher education with Greg Reihman.
- **Office of Research (Unit 9):** Jennifer Ryan's NSF CAREER and active NSF grant flow through the Office of Research grant administration.
- **Part I, Section I (Institutional AI Governance Architecture):** Malhotra's stated position on AI in business education, the Year of Learning theming, and the AI-BRL co-directorship structure anchor the College of Business contribution to Part I Section I.
- **Part I, Section IX (Public Statements & Executive Signaling):** Malhotra's public stance on AI in business and the Carter Lyons Two Sigma Gruhn Series appearance contribute to Part I Section IX.

Sources

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<https://business.lehigh.edu/news/lehigh-business-magazine/issue-no-11-2025-2026/aiwork>

Lehigh Business — *AI in Business Research Lab* center landing page documenting AI-BRL mission and five activity areas

<https://business.lehigh.edu/centers/ai-business-research-lab>

Lehigh Business — *AI in Business Research Lab* Meet the Team page identifying faculty co-directors Michael Rivera, Burak Eskici, and Kofi Arhin

<https://business.lehigh.edu/centers/ai-business-research-lab/meet-team>

Lehigh CSB — *About CSB* program overview documenting the joint College of Business / CSE Honors Program structure, the unique dual ABET/AACSB accreditation, the 136 credit-hour degree, and the integration across computer science, business, and liberal arts

<https://csb.lehigh.edu/overview>

LTS — *AI@Lehigh Summit 2026* event page with second annual summit panelist roster including K. Sivakumar (Marketing Chair)

<https://lts.lehigh.edu/ai@lehigh-summit-2026>

Lehigh University News — *Manoj K. Malhotra Named Dean for Lehigh's College of Business*, announcing the July 1, 2024 start date, succession from Georgette Chapman Phillips, prior position as Weatherhead Dean at Case Western Reserve, 27 years at USC Darla Moore School, and the search committee chaired by Health Dean Beth Dolan

<https://news.lehigh.edu/manoj-k-malhotra-named-dean-for-lehighs-college-of-business>

Lehigh University News — *Manoj K. Malhotra Installed as Lehigh's New Dean of the College of Business*, documenting his September 19, 2024 installation in the Tauck Family Lobby

<https://news.lehigh.edu/manoj-k-malhotra-installed-as-lehighs-new-dean-of-the-college-of-business>

Lehigh Office of the Provost — *Teaching at Lehigh: Policies, Guidance, and Syllabus Statements*, explicit statement that Lehigh has no uniform AI policy in courses

<https://provost.lehigh.edu/teaching-lehigh-policies-guidance-and-syllabus-statements>

Lehigh University News — *College of Business Dean Manoj Malhotra Looks to Raise Visibility* (December 2024), Dean Malhotra's first public interview including his commitments to appoint an AI coordinator and launch the new data department

<https://news.lehigh.edu/college-of-business-dean-manoj-malhotra-looks-to-raise-visibility>

Lehigh Business Magazine — *Generative AI in Business: Opportunities and Challenges* cover story for Issue No. 10 (2024-25 Year of Learning theme), with coverage of Beibei Dong's spring 2024 marketing course AI integration, McKay Price's calculator analogy, the Finance department racial bias study (Price, Bowen, Yang, Stein), Bright Asante-Appiah on AI in accounting education, and Fabio Gómez-Rodríguez on creativity and human contribution

<https://business.lehigh.edu/news/lehigh-business-magazine/issue-no-10-2024-2025/generative-ai-business-opportunities-and>

Lehigh Business — *Adapting to the Future* in Lehigh Business Issue No. 10 documenting the spring 2025 Year of Learning lecture by Ramayya Krishnan (Dean, Heinz College, Carnegie Mellon; chair of the AI Futures Group of the National AI Advisory Committee)

<https://business.lehigh.edu/news/lehigh-business-magazine/issue-no-10-2024-2025/adapting-future>

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<https://business.lehigh.edu/directory/manoj-k-malhotra>

Lehigh Business — *Lehigh Business Leadership* page identifying Manoj K. Malhotra (Dean), Paul Brockman (Senior Associate Dean for Faculty and Research), Burak Eskici (Associate Dean of Graduate Programs), Naomi Rothman (Associate Dean and Director of Undergraduate Programs), Sarah Andrews (Executive Director of Vistex Institute for Executive Education), and the six department chairs

<https://business.lehigh.edu/about/college-leadership>

Lehigh Business — *Decision and Technology Analytics (DATA)* department landing page documenting departmental mission and faculty research focus on information systems and supply chain management

<https://business.lehigh.edu/departments/decision-and-technology-analytics>

Lehigh Business — Jennifer Ryan faculty directory page documenting her appointment as Frank L. Magee Professor and DATA Department Chair effective July 2025, prior position as inaugural Department Chair for Supply Chain Management and Analytics at University of Nebraska-Lincoln, NSF CAREER award, and active co-PI status on an NSF grant

<https://business.lehigh.edu/directory/jennifer-ryan>

Lehigh Business — Michael Rivera faculty directory page (DATA, Business Information Systems, Purdue Ph.D., Temple background, machine learning and AI strategy teaching focus, two technology startup co-founder, consulting clients including Lockheed Martin, Mars Wrigley, Subaru, American Airlines)

<https://business.lehigh.edu/directory/michael-rivera>

Office of Strategic Planning and Initiatives — *Future Maker Grants* page documenting the February 2025 Future Maker Limited Submission Grant: Graduate Program Development award for *Becoming a Future Maker: Pioneering an Online MS in AI Leadership* (Michael Rivera and David Peng)

<https://ospi.lehigh.edu/strategic-plan/future-maker-grants>

Lehigh Business — *Michael Rivera on Opportunities and Challenges of AI in Business* iLLUminate podcast episode (September 2024) framing the 2024-25 Year of Learning theme through Rivera's DATA-side perspective on generative AI, change management, and the 5–10-year business outlook

<https://business.lehigh.edu/blog/2024/michael-rivera-opportunities-and-challenges-ai-business>

Lehigh Business — Burak Eskici faculty directory page (Harvard Ph.D., DATA assistant professor, Associate Dean of Graduate Programs, AI-BRL co-director, and CSB Honors co-director)

<https://business.lehigh.edu/directory/burak-eskici>

Lehigh Business — DATA Faculty page listing the department roster, including Kofi Arhin (AI-BRL faculty co-director; the sole DATA member of the I-DISC roster, documented in Unit 6) and Henry F. (Hank) Korth, Ph.D. Princeton, courtesy DATA appointment from CSE

<https://business.lehigh.edu/departments/decision-and-technology-analytics/faculty>

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Lehigh Confluence — *Resources for directed learning about AI* (LTS Knowledge Base) documenting Greg Surovcik's *Critical (and impractical) AI: For decision makers amid a hype cycle* presentation for The Management Club, College of Business

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<https://business.lehigh.edu/executive-education/programs-for-individuals/introduction-to-business-analytics>

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<https://business.lehigh.edu/departments/marketing/faculty>

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Sage Journals — *Tales of Two Channels: Digital Advertising Performance Between AI Recommendation and User Subscription Channels* (Dong, Zhuang, Fang, Huang) in *Journal of Marketing*, comparing click-through and conversion rates between AI-recommended and user-subscribed in-feed advertising channels

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<https://business.lehigh.edu/blog/2021/beibei-dong-risks-letting-ai-choose-your-news>

Lehigh Business — Eric (Er) Fang faculty directory page documenting his Iacocca Chair of Business Administration, direction of the Center for Digital Marketing Strategy and Analytics, and recent and forthcoming AI-relevant publications including *Tailoring Personalization Across Customer Stages*, *Multichannel Effects of Mobile Infeed Advertising*, *Swimming with the Shark*, and *We Earned the Coupon Together*

<https://business.lehigh.edu/directory/er-eric-fang>

Rossin Engineering — *Leadership updates: I-DISC, I-CPIE, IDEAS* (August 2025) identifying Alberto Lamadrid as the new Director of I-CPIE with a Kane Faculty Fellowship, alongside the Muñoz-Avila I-DISC return and Pearl IDEAS appointment
<https://engineering.lehigh.edu/news/article/leadership-updates-i-disc-i-cpie-ideas>

Lehigh University Catalog — *Computer Science and Business Honors Program* page documenting CSB co-directors George Witmer (CSE) and Burak Eskici (College of Business)
<https://catalog.lehigh.edu/coursesprogramsandcurricula/interdisciplinaryundergraduatestudy/computerscienceandbusinessprogram/>

Poets & Quants — *Lehigh Names New Dean: Case Western Prof Manoj K. Malhotra* documenting former Dean Phillips's curriculum overhaul including the addition of the business analytics major and the fintech and international business minors
<https://poetsandquants.com/2024/04/23/lehigh-names-new-dean-case-western-prof-manoj-k-malhotra/>

Lehigh Business — Graduate Programs landing page enumerating the full graduate degree portfolio (1-MBA, FLEX MBA, FLEX MBA & Educational Leadership, FLEX MBA & Engineering, MS in Applied Economics, MS in Business Analytics, MS in Financial Engineering, MS in Management, Ph.D. in Business and Economics)
<https://business.lehigh.edu/graduate>

Lehigh Business — *Introduction to Generative AI* executive education program page documenting the program structure, target audience, instructor team led by Michael Rivera, and Executive Certificate options
<https://business.lehigh.edu/executive-education/programs-for-individuals/introduction-to-generative-ai>

Lehigh Business — *AI + Problem Solving* executive education program page documenting the program structure and Michael Rivera's lead instructor role
<https://business.lehigh.edu/executive-education/programs-for-individuals/enhancing-problem-solving-with-artificial-intelligence>

Lehigh Business — *AI + Analytics* executive education program page documenting the May 6, 2026 in-person session, \$1,195 fee, teach-then-do format, and use of pre-built AI assistants
<https://business.lehigh.edu/executive-education/programs-for-individuals/analytics-and-ai>

Lehigh Business — *AI in HR: An AI-Empowered Learning Experience* executive education program page documenting the April 2, 2026 program date and HR-focused content
<https://business.lehigh.edu/executive-education/programs-for-individuals/ai-in-hr>

Lehigh Preserve — *How Does Generative AI Usage Affect the Coding Performance of Developers?* (Rivera) project summary page documenting the difference-in-differences analysis of 27 weeks of proprietary IT organization data and the HICSS January 2025 conference presentation
<https://preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai-project-award/how-does-generative-ai>

Lehigh University News — *Becoming AI Ready at Lehigh* (January 2026) reporting that "Faculty members in the College of Business have had 32 papers in top-tier journals over the past two years" alongside the broader AI Readiness narrative
<https://news.lehigh.edu/becoming-ai-ready>

Lehigh Alumni — *Top 5 Things to Know About the College of Business* documenting Carter Lyons '97 (Two Sigma Investments co-CEO) on the 2025 Donald M. Gruhn '49 Distinguished Finance Speaker Series discussing AI in the workplace
<https://alumni.lehigh.edu/news-blog/top-5-things-know-about-college-business>

4.

College of Health

KEY SIGNALS

The College of Health is Lehigh's newest college, founded in 2020, and is the only Lehigh college structurally organized around health data science as a named department alongside population health and community/global health. Its Department of Biostatistics and Health Data Science is anchored by two joint CSE/COH appointments — Bilal Khan (Director of the Health Data Warehouse) and Vinod Namboodiri (Ellen and Vincent Forlenza '75 Endowed Chair in Health Innovation and Technology, Director of the ACCESS Research Laboratory) — both of whom hold full professor appointments simultaneously in the College of Health and the Department of Computer Science and Engineering in Rossin Engineering. The Forlenza Chair was established with a \$5 million gift from Ellen and Vincent Forlenza '75 and the chair charter explicitly mandates that the holder "support the innovation and development of health applications for artificial intelligence, advance analytics and data science, and design cutting-edge devices and technologies" — the most explicit AI mandate written into any Lehigh endowed chair in available sources. The *COH Open Positions* prospectus documents three additional active AI-tracked tenure-track searches in addition to the Forlenza Chair: Health Data Scientist – Artificial Intelligence, Health Data Scientist – Visualization/Auralization/Haptics, and Health Data Scientist – Ethics of Artificial Intelligence. The College's most prominent documented AI-relevant research project is Thomas McAndrew's 2025 NSF-funded infectious disease forecasting platform, *IHBEM: Enhancing Influenza Forecasting Through an Integrated Platform for User-Generated Temporal Forecasts*, which combines computational epidemiology with human judgment forecasts and is now being translated into the DECISIONCAST app through a second Lehigh Research Translation Accelerator seed grant. The **Health Data Warehouse**, housed in the 195,000-square-foot Health, Science and Technology Building, is the College's institutional AI and analytics infrastructure and "supports faculty and researchers in health data science, AI-driven analytics and custom software development." The College of Health contributed one of the two documented 2024 Lehigh AI Future Maker Strategy Grant projects tied to the College: Heather Messina and Won Choi's *Measuring Research Impact in the College of Health using ChatGPT 4o*.

The College of Health launched in Fall 2020 and is based in the Health, Science and Technology Building (HST), a 195,000-square-foot facility that opened to the public in April 2022 — the largest academic research facility ever built by Lehigh and the second-largest building on campus. Since launch, the College has grown from five to twenty-seven faculty members and from sixty-four to more than 250 undergraduates, with thirty graduate students across the Master of Public Health (MPH), MS in Population Health, and Ph.D. in Population Health programs. It is led by Dean Elizabeth "Beth" Dolan, who was appointed on June 1, 2023 after serving as interim dean for two years. The College is

organized into three departments — Biostatistics and Health Data Science, Population Health, and Community and Global Health — and runs two intercollegiate honors programs (IBH with the College of Business and, in development, a similar joint program with Rossin Engineering) plus the MBA/MPH joint degree with the College of Business.

4.1 Governance & Policy

The College of Health does not maintain its own AI policy distinct from the institutional Lehigh frameworks documented in Unit 7 and Unit 8. Faculty and staff operate under the same Acceptable Use of Computing Systems Policy, Data Classification Framework, the Provost's non-uniform policy on student AI use, and the CITL-developed syllabus statement options. The College has specific data-handling protocols for the health data warehouse, biospecimen repository, and partner health system data-sharing agreements — protocols that flow from Lehigh's Data Classification Framework rather than from a separate College-of-Health AI policy. Health data from external partners is treated as protected or restricted under the classification framework and is governed by the terms of each data-sharing agreement.

The College's approach to AI is embedded in its research infrastructure and strategic hiring rather than articulated through a distinct policy document. Dean Dolan's strategic vision when named dean in 2023 explicitly called out "research strengths in community health, environmental health, indigenous health, population health, and health data science" as the five pillars the College would build on, plus "a new strategic research cluster in disability independence, a focus that brings the development of assistive technologies into conversation with research on the multiple determinants of health for people with disabilities, and with health policy and disability ethics." The assistive technologies framing explicitly anchors AI research infrastructure in the College's strategic plan through the new cluster. The College has also operationalized this vision through its endowed-chair hiring strategy, with the 2024 appointment of Vinod Namboodiri as the inaugural Ellen and Vincent Forlenza '75 Endowed Chair in Health Innovation and Technology (4.2 below) representing the most concrete hire. Beyond the Forlenza Chair, the *COH Open Positions* prospectus documents three additional active tenure-track searches with explicit AI tracks: **Health Data Scientist – Artificial Intelligence** (tenure-track associate or full professor in AI methods such as NLP and ML applied to health data including EHR and -omics data); **Health Data Scientist – Visualization, Auralization, Haptics** (tenure-track assistant or associate professor applying VR and gamification to health interventions); and **Health Data Scientist – Ethics of Artificial Intelligence** (tenure-track assistant professor in quantitative methods and population health with a focus on the ethics of AI). These three searches plus the Forlenza Chair constitute four active AI-tracked faculty lines in a 27-faculty college — the highest density of AI-specific open positions per faculty headcount of any Lehigh college in available sources.

The College's research governance includes a 19-member Dean's Advisory Council chaired by Vincent Forlenza '75, which includes corporate, healthcare, NGO, and private-sector leaders who provide strategic guidance, sponsorship, and student experiential learning opportunities. The Advisory Council sits alongside the College's ordinary faculty and departmental governance structures.

4.2 People

This section covers documented AI-relevant Health faculty across the three departments and the Dean's office. As the smallest of Lehigh's colleges by faculty count (27 full-time faculty as of 2025), the College of Health is documented here at the level of individual faculty members rather than through stratification across many subdisciplines.

Dean's Office

Elizabeth "Beth" Dolan — Dean of the College of Health (appointed June 1, 2023 after two years as interim dean); Professor of English and of Health, Medicine and Society. Dolan earned her B.A. in English at Davidson College, where she began as a pre-med major with a clinical research internship in cardiology before switching to literature, and her M.A. and Ph.D. in English from the University of North Carolina at Chapel Hill. She later served as senior fellow in literature and medicine at the UNC School of Medicine. Her scholarly work is in health humanities, focused on the expression of suffering in narrative from the eighteenth century to the present and on the ways novel forms of expression intervene in the social and political causes of emotional pain and ill health. Prior Lehigh roles include founding director of the Health, Medicine and Society Program in the College of Arts and Sciences, co-leader of the successful cluster hire in community health, member of the committee that designed the Grants for Experiential Learning in Health, and Lehigh's first Deputy Provost for Graduate Education. Outside Lehigh she was founding director of the board of the PA Medical Humanities Consortium (now part of the National Health Humanities Consortium). Her non-traditional background — a literature scholar leading a college focused on biostatistics, health data science, and community health — is the most distinctive dean-office profile in available Lehigh sources.

Won Choi — Professor, Department of Population Health; Associate Dean for Research and Graduate Studies. woc222@lehigh.edu. Choi is the College of Health co-author with Heather Messina on the 2024 Lehigh AI Future Maker Strategy Grant project *Measuring Research Impact in the College of Health using ChatGPT 4o*, one of two documented COH contributions to the 26-contributor Lehigh AI Future Maker cohort.

Michael K. Gusmano — Professor, Department of Population Health; Iacocca Chair; Associate Dean for Academic Programs; Co-director, Health, Medicine and Society; Director, Ethics Center. mig321@lehigh.edu. Gusmano holds the College's broadest cross-cutting portfolio of associate dean, endowed chair, interdisciplinary program direction, and ethics center roles.

Jessica J. Obst — (Professor and Chair, Department of Population Health — jom924@lehigh.edu per the faculty directory). Available sources do not enumerate AI-specific research output from the Population Health department chair.

Eduardo J. Gómez — Professor, Department of Population Health; Director, Institute of Health Policy and Politics (IHPP, established 2021); IBH Co-Director (College of Health side). Gómez is a political scientist by training, with research focused on the politics of global health policy, junk food politics, and the commercial determinants of health. His most recent book is *Junk Food Politics: How Beverage and Fast Food Industries are Reshaping Emerging Economies* (Johns Hopkins University Press, 2023).

Prior appointments include King's College London (Senior Lecturer), Rutgers University (Assistant Professor), and a pre-doctoral visiting scientist post at the Harvard School of Public Health. He is a USAF veteran and a life member of the Council on Foreign Relations. His IBH co-director role is documented in 4.3 below.

Department of Biostatistics and Health Data Science

The Department of Biostatistics and Health Data Science is the College's primary AI-relevant department and the institutional home of the two joint CSE/COH appointments that anchor Lehigh's cross-college health data science infrastructure.

John Hughes — Associate Professor and Chair, Department of Biostatistics and Health Data Science. joh621@lehigh.edu. Hughes supervised the 2024-25 Honors Capstone of population health major and applied mathematics minor Helen Keetley '25, which consisted of a tutorial on implementing Bayesian spatial filtering — a method for accounting for data with spatial clustering. Keetley subsequently transferred to Lehigh specifically to pursue biostatistics and epidemiology under Hughes's mentorship and is now pursuing an MS in Biostatistics at Harvard on a full tuition grant.

Vinod Namboodiri — Ellen and Vincent Forlenza '75 Endowed Chair in Health Innovation and Technology and Professor, Department of Biostatistics and Health Data Science (College of Health) and Department of Computer Science and Engineering (Rossin College of Engineering and Applied Sciences); Director, Accessibility and Assistive Technologies (ACCESS) Research Laboratory; Lehigh University/United Nations Partnership Faculty Fellow. vin423@lehigh.edu. Namboodiri is the first holder of the Ellen and Vincent Forlenza '75 Endowed Chair, established through a \$5 million foundational gift from Ellen and Vincent Forlenza '75. The chair charter explicitly mandates that the holder "support the innovation and development of health applications for **artificial intelligence**, advance analytics and data science, and design cutting-edge devices and technologies to address urgent needs in population health." This is the most explicit AI mandate written into any Lehigh endowed chair charter surfaced in available sources. Namboodiri directs the ACCESS Research Laboratory, which is the College's primary assistive technology and accessibility research infrastructure and the anchor facility for the new disability independence research cluster under Dolan's strategic plan. His current NSF-funded research is focused on "wayfinding solutions for persons with disabilities" and is funded by the NSF **Smart and Connected Communities (S&CC)** and **Convergence Accelerator** programs. His joint CSE appointment makes him one of the few Lehigh faculty members who hold full professor appointments in two colleges simultaneously; he is also documented in Unit 1 under the CSE faculty roster. He teaches **BSTA 403 Health Applications in Statistical Learning** **in the Biostatistics curriculum, a course that explores common statistical models (linear regression, logistic regression, Poisson and negative binomial regression, survival models) applied to population health datasets with an explicit emphasis on supervised machine learning**.**

Bilal Khan — Professor, Department of Biostatistics and Health Data Science (College of Health) and Department of Computer Science and Engineering (RCEAS); **Director, Health Data Warehouse**. bik221@lehigh.edu. Khan is the other joint CSE/COH full professor appointment in the College of Health and is the director of the Health Data Warehouse, which is the College's

institutional health data and analytics infrastructure (4.4 below). His CSE appointment is documented in Unit 1.

Thomas McAndrew — Associate Professor, Department of Biostatistics and Health Data Science; affiliate of Lehigh's Center for Catastrophe Modeling and Resilience. mcandrew@lehigh.edu. McAndrew is a computational scientist working at the intersection of biostatistics and data science. He earned his Ph.D. in Mathematical Sciences from the University of Vermont, an MS in Biostatistics from Georgetown, and a BS in Biomathematics from the University of Scranton. Before joining Lehigh in 2020, he was a postdoctoral fellow at the University of Massachusetts Amherst under Nicholas G. Reich, where he developed multi-model ensemble algorithms to forecast seasonal influenza for the CDC and HHS regions. In industry he was Associate Director of Biostatistics at the Cardiovascular Research Foundation, leading biostatistical teams that designed and analyzed multinational clinical trials. His research focuses on building algorithms that combine statistical models of infectious disease with models of human judgment — "producing accurate predictions of infectious disease outbreaks and biological phenomena" — with the explicit goal of supporting public health decision-making. He runs the Computational Uncertainty Lab at Lehigh (<https://compuncertlab.org>). He teaches **BSTA0001 Population Health Data Science**** in the Biostatistics curriculum with integrated HPC resource use, documented in the LTS 2020-21 Annual Report. McAndrew's research program is documented at length in 4.5 below.

Rui Hua — Assistant Professor, Department of Biostatistics and Health Data Science. ruh725@lehigh.edu. Hua is the College of Health representative on the I-DISC roster documented in Unit 6.

Other Biostatistics and Health Data Science faculty. Additional full-time faculty in the department include the Associate Professor and Associate Chair (erd424@lehigh.edu), a Professor (chd320@lehigh.edu), an Assistant Professor with a joint appointment to Good Shepherd Rehabilitation Network (shm825@lehigh.edu), an Assistant Professor (gig323@lehigh.edu), and a Teaching Professor (aha424@lehigh.edu). Individual AI-relevant research portfolios for these faculty are not consolidated in available public sources.

Department of Population Health

The Department of Population Health is led by its chair (jom924@lehigh.edu, documented in the Dean's Office section above) and includes the four associate deans (Choi, Gusmano) and the IHPP Director (Gómez). Additional population health faculty with AI-adjacent research profiles include:

Rochelle Frounfelker — Assistant Professor, Department of Population Health. rof222@lehigh.edu. Frounfelker is the population-health co-PI on Thomas McAndrew's NSF IHBEM grant and the lead investigator on the human-decision-process component of the infectious disease forecasting project. The collaboration began with 2023 pilot funding from the College of Health's Dean's Strategic Initiative Fund, which Frounfelker used to conduct focus groups with Lehigh Valley public health stakeholders on how they identify flu outbreaks, generate intervention

options, and decide on interventions. The pilot data directly supported the NSF proposal and forms the basis of the ongoing NSF work.

Hyunok Choi — Associate Professor, Department of Population Health; Director, Children's Environmental Precision Health Institute. hyc219@lehigh.edu. Choi directs the Children's Environmental Precision Health Institute, which applies environmental and precision health approaches to child development and exposure research. Specific AI-methodology use within the Institute's projects is not enumerated in available sources.

Joint Population Health / CEE appointment (gms221@lehigh.edu) — Assistant Professor, joint Population Health / Civil and Environmental Engineering (Rossin) appointment; Lehigh University/United Nations Partnership Faculty Fellow. This is one of the College's three-way joint appointments (Health + Engineering + UN Fellow program) and represents structural integration of health data work with environmental engineering data.

Department of Community and Global Health

Julie Pacheco — Assistant Professor, Department of Community and Global Health; Director, Institute for Indigenous Studies (IIS); Quechua/Cherokee affiliation. jpacheco@lehigh.edu. The Institute for Indigenous Studies anchors the Indigenous peoples' health research cluster and is the only Lehigh research institute specifically directed by an Indigenous-affiliated faculty member in available sources.

Community and Global Health faculty with Lehigh/UN Partnership Fellowships include the assistant professor at moj225@lehigh.edu. Community and Global Health is the smallest of the three College of Health departments by faculty count and its AI-relevant research portfolio is not consolidated in available sources beyond cross-departmental collaborations.

Graduate Students and Trainees

E.J. Rovella — Ph.D. candidate, College of Health. Rovella served on the *Using AI in Teaching and Learning at Lehigh* panel at the second annual AI@Lehigh Summit on January 13, 2026, documented in Unit 7, as the College of Health graduate student voice alongside Dominic Packer, K. Sivakumar, and other panelists.

Helen Keetley '25 — Undergraduate (population health major, applied mathematics minor) who completed the 2024-25 Honors Capstone on Bayesian spatial filtering under John Hughes. Now pursuing an MS in Biostatistics at Harvard on a full tuition grant.

Kareem Hargrove '25 — Undergraduate who contributed to Thomas McAndrew and Rochelle Frounfelker's 2023 pilot infectious disease forecasting work.

Katie Blomkvist G'25 — MPH student who contributed to the McAndrew and Frounfelker pilot project.

Anurag Subedi '26 — MS Data Science student in the P.C. Rossin College of Engineering and Applied Science with a software development background. Subedi is building the DECISIONCAST

platform software under McAndrew's mentorship as part of the Research Translation AcceLURator-funded translation work.

Georgia Bromley '25, G'26 — MPH student contributing to the user experience design for DECISIONCAST under McAndrew's mentorship.

4.3 Teaching & Curriculum

The College of Health offers four to five undergraduate majors (depending on how the intercollegiate programs are counted), ten minors, two intercollegiate honors programs, three graduate degrees (MPH, MS in Population Health, Ph.D. in Population Health), and one joint degree (MBA/MPH with the College of Business). The first cohort of undergraduates graduated in May 2023 under Dolan's interim deanship — ten students completing the first College of Health bachelor's degrees.

Undergraduate Majors

The College of Health's four standalone undergraduate majors are offered through the three departments. The Population Health major is the College's flagship undergraduate degree. The department offerings also include majors in Community and Global Health, Global Population Health, and Health, Medicine and Society (through an interdisciplinary program that Dolan founded). Ten minors are available across the three departments, including Biostatistics and Health Data Science, Community Health, Epidemiology, Environmental Health, Global Health, Health Policy and Politics, Indigenous Peoples' Health, LGBTQ+ Health, Maternal and Child Health, and Population Health. The Biostatistics and Health Data Science minor is the College's most direct undergraduate AI/ML/statistics on-ramp.

Intercollegiate Honors Programs

Integrated Business and Health (IBH) — New inter-college honors program launching Fall 2025 in collaboration with the College of Business. IBH is a 4-year cohort-based BS program with core courses from both colleges; students complete the College of Business core plus health economics, health policy, and community health training from the College of Health. The program was created to address the growing need for professionals who can "navigate the complexities of the health sector and contribute to business and policy solutions that enhance community health" and was launched under Deputy Provost for Undergraduate Education Terry-Ann Jones's Fall 2025 "strategic planning goal of offering a deeply interdisciplinary education." Co-directors are **Han Ye**, Associate Professor in Decision and Technology Analytics (College of Business side, hay322@lehigh.edu) and **Eduardo Gómez**, Professor of Population Health and Director of the Institute of Health Policy and Politics (College of Health side, edg219@lehigh.edu). The program's Intercollege Office is in the College of Business's Rauch Business Center (201 E Packer Ave, Suite 016), with general inquiries directed to inibh@lehigh.edu. The program features a capstone course in which students work in cross-disciplinary teams of five to six on public health and health care policy projects with faculty mentors. Because IBH launched in Fall 2025, no IBH cohorts have yet graduated as of the snapshot date. IBH

is documented from the Business side in Unit 3 as the College of Business's newest intercollegiate honors program.

Intercollegiate Engineering and Health (in development) — At the November 2025 Town Hall, President Helble announced plans for "a similar program in the future between the College of Health and the P.C. Rossin College of Engineering and Applied Science," modeled on the IBH structure. The program's launch date, co-directors, and curriculum are not yet publicly available in available sources.

MBA/MPH Joint Degree

The College of Health and the College of Business jointly administer the MBA/MPH, a joint Flex MBA with Public Health Management Concentration that combines the College of Business's part-time online MBA with the College of Health's MPH. Available public sources do not enumerate AI-specific coursework within the MBA/MPH beyond the broader MPH curriculum.

Master of Public Health (MPH)

The MPH is the College's flagship master's degree. It is directed by the Associate Professor of Community and Global Health at lil223@lehigh.edu. The program includes biostatistics coursework through the Department of Biostatistics and Health Data Science, which is the primary vehicle for AI and computational methods training at the master's level.

MS in Population Health and Ph.D. in Population Health

The College offers an MS in Population Health (with optional Global Population Health and Digital Health tracks) and a Ph.D. in Population Health. The Ph.D. program graduated its first students in 2024 and is the College's research doctorate anchor. AI-specific coursework is not enumerated in available sources beyond the broader biostatistics and data science curriculum.

Classroom AI Integration

The College of Health has not documented classroom AI integration as a college-wide initiative comparable to the College of Business's Year of Learning theme. Faculty operate under the standard Provost/CITL syllabus statement options; individual instructor decisions on AI use in coursework are not enumerated in available public sources. E.J. Rovella's panelist role on the second AI@Lehigh Summit (*Using AI in Teaching and Learning at Lehigh*) is the most direct College of Health participation in the institutional AI teaching conversation documented in available sources.

4.4 Tools & Technology

Health Data Warehouse

The **Health Data Warehouse** is the College of Health's institutional health data and analytics infrastructure, housed in the Health, Science and Technology Building and directed by Bilal Khan. The Warehouse "supports faculty and researchers in health data science, AI-driven analytics and custom software development" — the explicit inclusion of AI-driven analytics and custom software development in its mission statement marks it as the College's primary AI infrastructure. The Warehouse was originally described in the LTS 2020-21 Annual Report as "a collaboration between

Lehigh University's College of Health and College of Business" with LTS providing advisory support during its creation; whether the College of Business connection remains operationally active or has evolved into a College-of-Health-only facility is not surfaced in current sources. The Warehouse is currently building the DECISIONCAST platform software for Thomas McAndrew's NSF-funded infectious disease forecasting work (4.5 below), which is the most concrete documented example of the Warehouse's AI-driven analytics and custom software development function in available sources.

Health, Science and Technology Building (HST)

The Health, Science and Technology Building opened to the public in April 2022 as a 195,000-square-foot facility — the largest academic research facility ever built by Lehigh and the second-largest building on campus. HST houses the College of Health's faculty, administrative and programmatic staff, the health data warehouse, a **biospecimen repository**, a **data visualization lab**, wet and dry labs, community meeting space, and faculty from three of Lehigh's colleges who work on health and energy. The building was designed for interdisciplinary collaboration, with teams rotating in and out and undergraduates engaging in hands-on learning alongside graduate students and faculty researchers. The Data Visualization Lab within HST is a physical AI/analytics adjacent facility, though specific AI-tool deployments within it are not enumerated in available public sources.

Accessibility and Assistive Technologies (ACCESS) Research Laboratory

The **ACCESS Research Laboratory** is directed by Vinod Namboodiri (Forlenza '75 Endowed Chair) and is the College's primary assistive technology and accessibility research facility. ACCESS anchors the new disability independence research cluster in Dean Dolan's strategic plan, which "brings the development of assistive technologies into conversation with research on the multiple determinants of health for people with disabilities, and with health policy and disability ethics." Specific AI-method use and research outputs from ACCESS are documented through Namboodiri's CSE research portfolio (Unit 1) rather than through a College of Health-side lab summary.

Biospecimen Repository

The Biospecimen Repository in HST is the College's physical specimen infrastructure for research involving biological samples. Its direct relationship to AI-driven analytics is not documented in available public sources.

External Institutional AI Stack

The College of Health uses the institutional Lehigh LLM Gateway, Google Gemini, NotebookLM, and other approved AI tools documented in Unit 8. No College-of-Health-specific AI tool deployments separate from the institutional stack are surfaced in available sources beyond the Health Data Warehouse and the ACCESS Lab.

4.5 Research & Scholarship

McAndrew NSF IHBEM Grant and DECISIONCAST Platform

The most prominent documented AI-relevant research project in the College of Health is Thomas McAndrew's NSF-funded infectious disease forecasting work. The foundational project is the 2023 pilot grant from the College of Health's Dean's Strategic Initiative Fund, which allowed McAndrew and Rochelle Frounfelker (Population Health) to start a new project in infectious disease modeling and forecasting focused on how Lehigh Valley public health officials and infectious disease clinicians make decisions about influenza. The pilot supported focus groups with Lehigh Valley public health stakeholders and generated the preliminary data for a subsequent NSF proposal.

In 2025, McAndrew received the NSF IHBEM (Integrated Human and Biophysical-Earth-Environmental Modeling) award for *Enhancing Influenza Forecasting Through an Integrated Platform for User-Generated Temporal Forecasts* — a four-year project developing a human judgment platform that systematically collects people's opinions and forecasts about infectious disease in an unbiased way, combines them with computational epidemic models, and weights individual predictions by their observed accuracy over time. The project has two components: a public-facing citizen science interface where members of the public can pose and answer questions about public health, and an internal interface for public health experts. Users see the number of forecasters who responded, individualized rationales, and summary ensemble forecasts. Partners on the four-year project include Rochelle Frounfelker (Population Health, Lehigh) and Shaun Truelove (epidemiologist, Johns Hopkins Bloomberg School of Public Health).

In early 2026, McAndrew received a seed grant from the Lehigh Research Translation AcceLURator to extend the NSF work into a deployable real-world application called **DECISIONCAST**. The AcceLURator Strategic Translation Research Project (STRP) is titled *Augmenting Societal Impact with a Translation-Optimized Public Health Forecasting Platform* and shifts the NSF research program's emphasis from scientific questions to usability and interface design. DECISIONCAST is described by McAndrew as a state-and-local-level emergency operations center analog — a platform to "share opinions and data decisions at the state and local level and have your own mini emergency EOC." The software is being built by the Health Data Warehouse (Bilal Khan's facility) with MS Data Science student Anurag Subedi '26 (Rossin Engineering) leading software development and MPH student Georgia Bromley '25, G'26 contributing to the user experience work. McAndrew plans to solicit feedback from a lay audience on Prolific (a crowdsourcing platform) and from public health officials through organizations such as the Council of State and Territorial Epidemiologists.

McAndrew's funding portfolio for flu forecasting also includes two earlier pre-IHBEM federal awards. In 2024 he received a **\$149,996 CDC and CSTE award** through the joint Centers for Disease Control and Prevention / Council of State and Territorial Epidemiologists Influenza Forecasting program (*Development of Forecasts and/or Scenario Projections for Influenza to Inform Public Health Decision-Making*) — funding that supports continued work building probabilistic forecasts of influenza using human judgment, in collaboration with Nicholas Reich at the University of Massachusetts Amherst. He is a repeat recipient of the CDC/CSTE award. In parallel he received a **\$90,000 subcontract from the**

University of Massachusetts Amherst to assist the ongoing work of the Influenza Forecasting Center of Excellence based at UMass. He is also an affiliate of Lehigh's Center for Catastrophe Modeling and Resilience (CATmodeling) and has received additional support from MIDAS. His earlier work at UMass Amherst under Reich developed multi-model ensemble algorithms for seasonal influenza forecasting for the CDC and HHS regions, and his early-2020 COVID-19 consensus-of-expert-opinion forecasts with Reich were among the earliest academic projections of pandemic trajectories.

NSF PIPP Phase I Pandemic Prediction Grant (Cross-College)

McAndrew is one of thirteen Lehigh faculty co-investigators on a \$1 million National Science Foundation Predictive Intelligence for Pandemic Prevention (PIPP) Phase I award (NSF #2200066), *Dynamics of Pandemic Spread and Prevention in Indigenous Communities*, led by Vice Provost for Research Anand Jagota. The cross-college team includes Jessecae Marsh (Psychology, College of Arts and Sciences), Paolo Bocchini (Civil and Environmental Engineering, Rossin College), Xuanhong Cheng (Bioengineering and Materials Science and Engineering, Rossin College), and an additional set of senior personnel drawn from biology, data science, cognitive psychology, and Indigenous studies, plus the College of Health's **Institute for Indigenous Studies** (Sean Daley, Christine M. Daley, Julie Pacheco), the healthcare provider Geisinger as research collaborator and clinical partner, and members of the Cheyenne River Sioux and Prairie Band Potawatomi tribes. The team's four research thrusts converge engineering, biology, data science, and cognitive psychology on the question of how influenza spreads in underserved and isolated Indigenous communities and how to forecast and prevent that spread. McAndrew's specific contribution is the surveillance-and-prediction thrust — applying his computational forecasting methods to a population for which conventional surveillance data is sparse. The 18-month Phase I project is the most cross-collegial federally-funded AI-and-data-science research grant on which McAndrew is a co-investigator and is the largest single NSF award for which the Office of the Vice Provost for Research is the institutional PI; it is documented in full from the Office of Research side in Unit 9.

Cross-College Wei-Min Huang / McAndrew Collaboration

Wei-Min Huang (Professor, Mathematics, College of Arts and Sciences, and former Math department chair) is a long-standing co-investigator with Thomas McAndrew on the **CAP Ensemble influenza forecasting** algorithm work, which combines multiple model predictions into a single forecast through a consensus-of-predictions approach. This is one of the most direct CAS-COH research bridges documented in available sources and is cross-referenced from Unit 2 (CAS Mathematics).

Namboodiri ACCESS Lab Research

Vinod Namboodiri's ACCESS Research Laboratory anchors the new disability independence research cluster and operates across his joint COH/CSE appointment. His research on accessibility and assistive technologies is documented from the CSE side in Unit 1 and is the College of Health's primary connection to the university-wide assistive technology research portfolio. Specific publications and grants directly attributed to the ACCESS Lab under the COH side are not

consolidated in available sources beyond the Lab's stated mission and Namboodiri's endowed chair title.

Bilal Khan Joint CSE/COH Research

Bilal Khan's joint CSE/COH research portfolio, including his Health Data Warehouse directorship, is documented from the CSE side in Unit 1. His research at the intersection of network science, health data, and social network analysis provides the other structural link between the College of Health and CSE.

Hughes Bayesian Spatial Methods and Student Research

John Hughes's mentorship of Helen Keetley's 2024-25 Honors Capstone on Bayesian spatial filtering is the most direct documented example of Bayesian methods training for College of Health undergraduates in available sources. The tutorial, developed under the Hughes Computational Statistics research program, positions spatial clustering methods for population health and epidemiology applications. Keetley's subsequent placement in the Harvard MS in Biostatistics program is documented in the College's *Five Years of Excellence 2026* celebratory publication as a flagship student outcome.

Messina and Choi Lehigh AI Future Maker Project

Heather Messina and Won Choi's 2024 Lehigh AI Future Maker Strategy Grant project, *Measuring Research Impact in the College of Health using ChatGPT 4o*, is one of two documented College-of-Health contributions to the 26-contributor Lehigh AI Future Maker cohort. The project applied GPT-4o to measure and characterize research impact within the College, with the goal of developing a comprehensive prompt framework for holistic research impact evaluation. The full enumeration of the College's contributions to the 26-contributor Lehigh AI Future Maker cohort is not provided in available public sources beyond this project; the Lehigh AI Preserve sub-collection provides searchable project summaries.

External Research Funding and Partnerships

The College of Health's external research funding and partnerships include federal awards (NSF, CDC, CSTE, MIDAS through McAndrew; additional federal awards through the Children's Environmental Precision Health Institute under Hyunok Choi), foundation support (Robert Wood Johnson, Rockefeller, Oxfam, George Soros, Tinker Foundations through Gómez's IHPP work), and the 19-member Dean's Advisory Council's corporate and NGO connections (under Board Chair Vincent Forlenza '75). AI-specific federal grants are concentrated in McAndrew's NSF IHBEM award and the Namboodiri ACCESS Lab portfolio.

4.6 Events & Programming

AI@Lehigh Summit Participation

The College of Health's documented participation in the institutional AI@Lehigh Summit series includes:

- **Second annual AI@Lehigh Summit (January 13, 2026):** Ph.D. candidate E.J. Rovella served on the *Using AI in Teaching and Learning at Lehigh* panel, as the College of Health graduate student voice among a multi-college panelist group.

Annual Infectious Disease Modeling Symposium

The College of Health's annual infectious disease modeling symposium grew out of Thomas McAndrew and Rochelle Frounfelker's 2023 pilot-funded focus group work and brings together the Lehigh Valley public health stakeholders who participated in the original focus groups to share perspectives on infectious disease modeling. The symposium's specific scheduling, participants, and outputs are not consolidated in available public sources.

Founder's Week Installation and Endowed Chair Ceremonies

The College of Health has used Lehigh's Founder's Week (October) as its primary public ceremony vehicle. In October 2025, a Founder's Week Installation Ceremony honored inaugural endowed chair holders from the College of Health — the most prominent of which was Vinod Namboodiri's installation as the first Forlenza '75 Endowed Chair in Health Innovation and Technology. The ceremony was attended by Dean Dolan, Board Chair Vincent Forlenza '75, President Helble, and Provost Urban.

Iacocca Institute Partnerships

Dean Dolan represented the College at the President's Reception during Founder's Weekend 2025. The College's partnerships with the Iacocca Institute are not documented as explicit AI programming but flow through the broader Lehigh-and-UN Partnership Faculty Fellows program (which includes Vinod Namboodiri, the Community and Global Health Fellow at moj225@lehigh.edu, and the joint Population Health / CEE Fellow at gms221@lehigh.edu).

American Public Health Association Presence

Dean Dolan and College of Health faculty maintain an active presence at the annual APHA Conference. Dolan presented on the public health crisis in Sudan at the APHA 2025 Annual Meeting in Washington, D.C., which gathered more than 12,000 public health professionals. APHA participation is not specifically AI-themed programming.

Gaps and Observations

The College of Health is the smallest Lehigh college by faculty count (27 full-time faculty) and by absolute research expenditure, but has concentrated its AI research infrastructure in two high-leverage joint CSE/COH appointments (Khan, Namboodiri) and in one high-profile NSF-funded research program (McAndrew's IHBEM). The College's AI research portfolio is narrower in surface area than the other colleges but deeper in institutional commitment per dollar: the Health Data Warehouse, the Forlenza '75 Endowed Chair, the ACCESS Research Laboratory, and the disability independence strategic cluster all explicitly anchor AI-adjacent research infrastructure rather than treating AI as an optional overlay.

The College does not maintain its own AI policy distinct from the institutional Lehigh frameworks. Its approach to AI governance is embedded in hiring strategy (joint CSE/COH appointments, the Forlenza Chair, the new disability independence cluster) and in research infrastructure (Health Data Warehouse, ACCESS Lab) rather than articulated through a standalone document.

The relationship between the College of Health's AI infrastructure and the institutional Lehigh AI governance (Unit 7) is not explicitly documented in available public sources. Whether the College has a representative on the Provost's Generative AI Advisory Group steering committee (post-May 2025) is not surfaced; this is a tracked Window 1 chase item.

The Health Data Warehouse's specific operational footprint — its software stack, staffing, data partnerships, and active project list — is not enumerated in available public sources beyond the DECISIONCAST development work and the high-level mission statement quoted in the *Five Years of Excellence* publication. This is a deepening target for a future version.

The ACCESS Research Laboratory's specific publications, grants, student cohort, and lab space are not separately documented from Namboodiri's CSE research portfolio in available public sources. Whether ACCESS is a formally structured lab with its own staff and budget or a research group designation centered on Namboodiri is unclear. This is a deepening target.

The Department of Community and Global Health's AI-relevant research portfolio is not consolidated in available public sources. As the smallest of the three COH departments by faculty count and the one most focused on qualitative and community-based methods, its AI integration is less visible — but whether this reflects a genuine gap or a documentation gap is not clear.

McAndrew's 2025 NSF IHBEM grant is described in Lehigh sources as a "major award" but the specific dollar amount is not enumerated in available public sources surfaced for this dossier. Grant amount is a deepening target.

The 2025 Founder's Week Installation Ceremony for the inaugural endowed chair holders is referenced through Dean Dolan's LinkedIn activity and the *Faculty Employment Prospectus*; the full list of inaugural chair holders honored at the ceremony is not fully enumerated in available sources beyond Namboodiri's Forlenza Chair.

The Intercollegiate Engineering and Health program announced by President Helble at the November 2025 Town Hall is not yet operationalized; its co-directors, curriculum, launch date, and target enrollment are not publicly documented.

The IBH program launched Fall 2025, which means the first cohort is in its first academic year as of the snapshot date. Student outcomes, enrollment numbers, and curriculum evolution will be tracked targets for v0.2.

The College-of-Health contribution to the 26-contributor Lehigh AI Future Maker cohort totals two contributors per Unit 7, but only one project (Messina and Choi's *Measuring Research Impact in the College of Health using ChatGPT 4o*) is explicitly documented in available sources. The identity of the second COH contributor is a deepening target.

The first cohort of the Population Health Ph.D. program graduated in 2024 per the *Five Years of Excellence* publication, but first-cohort dissertation titles and AI-relevant methods usage are not enumerated in available sources.

Cross-References

- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** Vinod Namboodiri (Forlenza '75 Endowed Chair) and Bilal Khan (Health Data Warehouse Director) both hold joint full professor appointments in the Department of Biostatistics and Health Data Science (COH) and the Department of Computer Science and Engineering (Rossin). Both are documented from the Engineering side in Unit 1. Anurag Subedi '26 (MS Data Science, Rossin) is building the DECISIONCAST platform software under McAndrew's mentorship. President Helble's November 2025 Town Hall announcement of an intercollegiate program between Rossin and the College of Health signals a future structural link paralleling the IBH program.
- **College of Arts and Sciences (Unit 2):** Wei-Min Huang (Mathematics) is a long-standing co-investigator with Thomas McAndrew on CAP Ensemble influenza forecasting. Dean Dolan was founding director of the Health, Medicine and Society Program in CAS and is a Professor of English in CAS by home department. Michael Gusmano (Population Health) is co-director of the Health, Medicine and Society Program.
- **College of Business (Unit 3):** The IBH Honors Program is jointly administered with the College of Business; Han Ye (DATA Associate Professor, Business side) and Eduardo Gómez (Population Health, Health side) are the co-directors. Dean Beth Dolan chaired the search committee that recruited Manoj Malhotra as the new College of Business dean in 2024. The MBA/MPH joint degree is administered jointly with the College of Business. Heather Messina (COH) and Won Choi (COH) co-authored the Lehigh AI Future Maker project *Measuring Research Impact in the College of Health using ChatGPT 4o*.
- **College of Education (Unit 5):** No direct COH-Education programmatic integration is documented in available sources beyond the broader Lehigh AI Future Maker cohort.
- **I-DISC (Unit 6):** Rui Hua (Assistant Professor, Biostatistics and Health Data Science) is the College of Health representative on the I-DISC roster. Bilal Khan and Vinod Namboodiri are documented as I-DISC-affiliated through their CSE appointments.
- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** E.J. Rovella (COH Ph.D. candidate) served on the second AI@Lehigh Summit panel on *Using AI in Teaching and Learning at Lehigh*. The two College of Health contributors to the 2024 Lehigh AI Future Maker Strategy Grant cohort are counted in the 26-contributor total documented in Unit 7.
- **Library and Technology Services cluster (Unit 8):** The Health Data Warehouse uses institutional Lehigh data infrastructure alongside its own health-specific software stack. COH faculty access the institutional LLM Gateway, Gemini, NotebookLM, and other approved AI tools through the standard LTS pathways.
- **Office of Research (Unit 9):** Thomas McAndrew's NSF IHBEM award, the Research Translation AcceLURator seed grant for DECISIONCAST, and the College of Health's

Dean's Strategic Initiative Fund pilot funding all flow through the Office of Research grant and pilot funding infrastructure.

- **Part I, Section I (Institutional AI Governance Architecture):** The College of Health's joint CSE/COH endowed chair structure (Namboodiri, Khan) and the Health Data Warehouse contribute to the Part I Section I institutional AI infrastructure narrative.
- **Part I, Section VI (Research Infrastructure):** McAndrew's NSF IHBEM grant, DECISIONCAST, the Health Data Warehouse, and the ACCESS Research Laboratory contribute to the Part I Section VI research infrastructure summary.

Sources

Lehigh College of Health — Faculty directory documenting the full-time faculty roster across the three departments, including Vinod Namboodiri (Forlenza '75 Endowed Chair in Health Innovation and Technology, joint COH/CSE appointment, Director of the ACCESS Research Laboratory) and Bilal Khan (Professor, joint COH/CSE appointment, Director of the Health Data Warehouse), department chairs, associate deans, and other joint appointments; also documents Namboodiri's NSF funding through the Smart and Connected Communities (S&CC) and Convergence Accelerator programs for wayfinding solutions for persons with disabilities

<https://health.lehigh.edu/faculty>

Lehigh College of Health — *Lehigh's Thomas McAndrew Advances Infectious Disease Prediction from Research Innovation to Real-World Impact* (January 2026) documenting the 2025 NSF IHBEM award, the Research Translation AccelURator seed grant for DECISIONCAST, the DECISIONCAST platform design (state-and-local-level EOC analog), and student involvement (Anurag Subedi '26, Georgia Bromley '25 G'26)

<https://health.lehigh.edu/news/lehigths-thomas-mcandrew-advances-infectious-disease-prediction-from-research-innovation-to>

Lehigh College of Health — *Five Years of Excellence at the College of Health* (January 2026) documenting the 250+ undergraduate enrollment, the first cohort 2024 graduation, the Helen Keetley '25 honors capstone, and the Thomas McAndrew 2023 pilot-to-NSF arc; contains the explicit Health Data Warehouse mission statement on AI-driven analytics and custom software development

<https://health.lehigh.edu/news/five-years-of-excellence-at-the-college-of-health>

Lehigh Preserve — Lehigh AI sub-collection including the project summary page for *Measuring Research Impact in the College of Health using ChatGPT 4o* (Messina and Choi, 2024)

<https://preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai>

Lehigh Faculty Employment Prospectus — documenting Dean Dolan's appointment date (June 1, 2023) and non-traditional English/UNC Chapel Hill background, the 19-member Dean's Advisory Council chaired by Board Chair Vincent Forlenza '75, the Health, Science and Technology Building specifications (195,000 square feet, opened April 2022), the full undergraduate and graduate program catalog, and the *COH Open Positions* enumeration of four AI-tracked tenure-track searches (the Forlenza '75 Chair; Health Data Scientist – Artificial Intelligence; Health Data Scientist – Visualization/Auralization/Haptics; Health Data Scientist – Ethics of Artificial Intelligence)

<https://flippingbook.lehigh.edu/Faculty-Employment-Prospectus/>

Lehigh University News — *Elizabeth A. Dolan Installed as Dean of the College of Health* documenting the installation ceremony, the growth metrics (5→27 faculty, 64→250+ undergraduates, 0→30 graduate students, 1 major → 4 majors plus 9 minors plus 2 intercollegiate programs plus 2 master's plus 1 Ph.D.), and the May 2023 first cohort graduation of 10 students

<https://news.lehigh.edu/elizabeth-a-dolan-installed-as-dean-of-the-college-of-health>

Lehigh Office of Information Security — *Classification of Data* framework documenting the four-tier scheme (Public, Internal, Restricted, Critical) that governs health data partnerships and institutional data handling

<https://data.lehigh.edu/classification-data>

Lehigh University News — *Elizabeth Dolan Named Dean for Lehigh's College of Health* documenting Dolan's strategic vision for the five research pillars (community health, environmental health, indigenous health, population health, and health data science) and the new disability independence research cluster framing

<https://news.lehigh.edu/elizabeth-dolan-named-dean-for-lehighs-college-of-health>

Lehigh University News — *A Conversation with Beth Dolan, Interim Dean of the College of Health* documenting Dolan's career arc (Davidson pre-med to English major, UNC Chapel Hill PhD, UNC School of Medicine senior fellow, Lehigh 2001 arrival, founding director of Health, Medicine and Society Program, first Deputy Provost for Graduate Education, interim dean December 2020)

<https://news.lehigh.edu/a-conversation-with-beth-dolan-interim-dean-of-the-college-of-health>

Lehigh College of Health — *Forlenza Chair Prospectus and 2022 Campaign Impact Report* — documents the Ellen and Vincent Forlenza '75 Chair in Health Innovation and Technology as established through a \$5 million gift with the explicit charter language that the chairholder will "support the innovation and development of health applications for artificial intelligence, advance analytics and data science, and design cutting-edge devices and technologies to address urgent needs in population health" [No public URL confirmed in available sources; flagged for Phase 4 URL confirmation.]

Lehigh College of Health — *Course Offerings* catalog, documenting BSTA 403 *Health Applications in Statistical Learning* taught by Vinod Namboodiri with explicit emphasis on supervised machine learning applied to population health datasets [No public URL confirmed in available sources; flagged for Phase 4 URL confirmation.]

Lehigh Library and Technology Services — *2020-21 Annual Report*, which documents the Health Data Warehouse as originally established as "a collaboration between Lehigh University's College of Health and College of Business" with LTS providing advisory support; also documents Thomas McAndrew teaching BSTA0001 *Population Health Data Science* with HPC resources in Spring 2021 [No public URL confirmed in available sources; flagged for Phase 4 URL confirmation.]

Lehigh IBH — *Eduardo J. Gómez, PhD, MA IBH Team* page documenting his directorship of the Institute of Health Policy and Politics (est. 2021), IBH co-directorship, political science background, *Junk Food Politics* (2023), and prior appointments at King's College London, Rutgers, and the Harvard School of Public Health

<https://ibh.lehigh.edu/ibh-team/eduardo-gomez>

EurekAlert! — *Lehigh University researcher receives NSF award to enhance flu forecasting through innovative technology* (April 2025) documenting McAndrew's NSF IHBEM project structure (cultural norms of public health practitioners + novel software platform), project partners (Rochelle Frounfelker, Shaun Truelove), and prior postdoctoral work under Nicholas Reich at UMass Amherst

<https://www.eurekalert.org/news-releases/1080146>

Lehigh College of Health — *College of Health Pilot Funding Fuels Innovative Research in Flu Forecasting in Lehigh Valley and Beyond* (April 2025) documenting the 2023 pilot grant from the Dean's Strategic Initiative Fund to McAndrew and Frounfelker, the focus group methodology for identifying Lehigh Valley public health stakeholder decision-making processes, and the path from pilot data to the NSF IHBEM proposal and award

<https://health.lehigh.edu/news/college-of-health-pilot-funding-fuels-innovative-research-in-flu-forecasting-in-lehigh-valley>

Lehigh LTS — *AI@Lehigh Summit 2026* event page with the second annual summit panelist roster including E.J. Rovella (COH Ph.D. candidate) on the *Using AI in Teaching and Learning at Lehigh* panel

<https://lts.lehigh.edu/ailchigh-summit-2026>

Lehigh IBH — *IBH Team* page documenting IBH co-directors Han Ye (Associate Professor, DATA, College of Business) and Eduardo Gómez (Professor, Population Health, College of Health)

<https://ibh.lehigh.edu/ibh-team>

Lehigh IBH — *About IBH* page documenting the Fall 2025 program launch, Terry-Ann Jones's announcement as Deputy Provost for Undergraduate Education, and the cohort-based interdisciplinary structure

<https://ibh.lehigh.edu/about-ibh>

Lehigh University News — *Lehigh Advances Into Year Three of Its Strategy With a Focus on Sustaining Success* documenting President Helble's November 2025 Town Hall announcement of a planned intercollegiate program between the College of Health and the P.C. Rossin College of Engineering and Applied Science

<https://news.lehigh.edu/lehigh-advances-into-year-three-of-its-strategy-with-a-focus-on-sustaining-success>

Lehigh CAS Mathematics — Wei-Min Huang faculty profile documenting his collaboration with Thomas McAndrew on CAP Ensemble influenza forecasting and other cross-college public health modeling work (documented in Unit 2)

<https://math.cas.lehigh.edu/faculty-staff/wei-min-huang>

Beth Dolan LinkedIn (Dean, College of Health) — posts documenting the October 2025 Founder's Week Installation Ceremony for inaugural College of Health endowed chair holders and Dean Dolan's APHA 2025 presentation on the public health crisis in Sudan at the American Public Health Association Annual Meeting in Washington, D.C.

<https://www.linkedin.com/in/beth-dolan-96767813/>

Lehigh College of Health — *Faculty Profile: Meet Thomas McAndrew* documenting McAndrew's University of Vermont PhD in Mathematical Sciences, Georgetown MS in Biostatistics, and University of Scranton BS in biomathematics, with his move to the College of Health to design biostatistics and public health forecasting curriculum

<https://health.lehigh.edu/blog/faculty-profile-meet-thomas-mcandrew>

Lehigh University News — *College of Health Faculty Awarded Federal, State Grants to Address Health Concerns* documenting Thomas McAndrew's \$149,996 CDC/CSTE award for probabilistic flu forecasting using human judgment in collaboration with Nicholas Reich (UMass Amherst), the \$90,000 UMass Amherst subcontract supporting the Influenza Forecasting Center of Excellence, and the College of Health's broader 2024-2025 federal grant cohort

<https://news.lehigh.edu/college-of-health-faculty-awarded-federal-state-grants-to-address-health-concerns>

Lehigh P.C. Rossin College of Engineering and Applied Science News — *\$1M NSF grant funds Lehigh cross-disciplinary team converging on pandemic prediction and prevention research* documenting NSF Predictive Intelligence for Pandemic Prevention (PIPP) Phase I Award #2200066 to a 13-faculty Lehigh team led by Vice Provost for Research Anand Jagota, with co-investigators including Jesseca Marsh (Psychology), Paolo Bocchini (Civil and Environmental Engineering), Xuanhong Cheng (Bioengineering and Materials Science and Engineering), Thomas McAndrew (Biostatistics and Health Data Science), the Institute for Indigenous Studies, Geisinger as research and clinical partner, and members of the Cheyenne River Sioux and Prairie Band Potawatomi tribes

<https://engineering.lehigh.edu/news/article/1m-nsf-grant-funds-lehigh-cross-disciplinary-team-converging-pandemic-prediction-and>

5.

College of Education

KEY SIGNALS

The College of Education is structurally a single-department college (the Department of Education and Human Services) organized into five academic programs (Counseling Psychology, Educational Leadership, School Psychology, Special Education, and Teaching, Learning and Technology) and is currently led by Robin Hojnoski as Acting Dean for the two-year period beginning July 1, 2024, while Bill Gaudelli serves as Senior Vice Provost for Educational Innovation and Assessment in the Provost cluster (Unit 7). The College's AI activity is concentrated almost entirely in the Teaching, Learning and Technology (TLT) program, which houses the **Certificate in Artificial Intelligence and Learning Analytics** — a 4-course (12-credit) graduate certificate that is the only standalone AI-titled credential offered by any Lehigh college in available sources. The TLT program's faculty AI research is anchored by Zilong Pan (Assistant Professor, named one of Lehigh's first United Nations Faculty Fellows), Tom Hammond (Associate Professor and TLT Program Director), Alec Bodzin (Professor and lead of the RiVR immersive virtual reality project), and Shan Li (Assistant Professor, 50/50 joint appointment between the College of Health's Department of Community and Global Health and the COE Department of Education and Human Services, whose research applies machine learning to student engagement detection). The College contributed three of the twenty-six contributors to Lehigh's 2024 Future Maker Strategy Grant Lehigh AI program — including Pan as one of the four cross-college co-leads of the Lehigh AI Strategic Grant program and Ph.D. student Shiyi Liu's project *A Systematic Review of AI Ethics Education for K-12 and Higher Education*.

5.1 Governance & Policy

College Structure and Leadership

Lehigh's College of Education consists of a single department, the Department of Education and Human Services, with five distinct academic programs: Counseling Psychology, Educational Leadership, School Psychology, Special Education, and Teaching, Learning and Technology (which itself spans teacher education and instructional technology/learning design). The College also operates a set of interrelated facilities and units that report through the Dean's office: the Centennial School (a laboratory school for children with challenging behaviors), the Center for Promoting Research to Practice (CPRP), Lehigh University Autism Services (LUAS), Global Distance Programs, and the Office of Professional Certification.

The Dean's office is supported by two associate deans. **Robin Hojnoski** was appointed Acting Dean by Provost Nathan Urban for a two-year period beginning July 1, 2024. Hojnoski is a Professor in the

School Psychology Program who previously served as Associate Dean of Graduate Education from 2020 through 2024, and has been a College of Education faculty member for seventeen years. During the same two-year period, **Bill Gaudelli**, the eighth Dean of the College of Education originally installed in 2018, is on dean leave to focus on his appointment as Senior Vice Provost for Educational Innovation and Assessment for the University, a Provost-cluster role documented at length in Unit 7. Gaudelli retains the dean title nominally but is not running the college day-to-day during the dean-on-assignment period.

Brook Sawyer is Professor and Associate Dean for Graduate Studies, having succeeded Hojnoski in that associate dean role when Hojnoski moved into the acting deanship in summer 2024. Sawyer's research focuses on language and literacy development for young children with disabilities and multilingual learners, and she is the principal investigator on a three-year, nearly \$2 million Development and Innovation Research Grant from the Institute of Education Sciences (IES) to develop and extend her **Parents Plus** program — the largest documented external research grant in the College in available sources.

Patricia H. Manz (School Psychology) is Department Chair of Education and Human Services, with a term ending in 2028. She earned her Ph.D. from the Graduate School of Education at the University of Pennsylvania and her research focuses on family-centered early intervention for young children experiencing socioeconomic disadvantage, including the Little Talks home-visiting program. **Christopher Liang** (Counseling Psychology) was the previous Department Chair and is still listed on the older Lehigh Provost department chairs page; the current chair is Manz per the active Provost department chairs list.

AI Policy Posture

The College of Education does not maintain its own AI policy distinct from the institutional Lehigh frameworks documented in Units 7 and 8. Its approach to AI governance is articulated through curriculum offerings (the Certificate in Artificial Intelligence and Learning Analytics, TLT 350 Introduction to Learning Analytics, TLT 462 Special Topics in AI and Language Education) and through faculty research in the TLT program, rather than through a standalone college-level statement on AI use. Bill Gaudelli's role as a founding member of the Lehigh Generative AI Advisory Group when it was established in January 2025 (in his capacity as Senior Vice Provost for Educational Innovation and Assessment, with the dean-on-assignment status discussed above) provides the College of Education's principal voice in institutional AI governance. That work is documented at length in Unit 7.

Dean's Advisory Council

The College of Education maintains a Dean's Advisory Council of individuals from a wide range of professions and experiences who provide counsel on strategic initiatives. One Council member with direct Lehigh institutional history is a 1959 Lehigh graduate who earned his Ph.D. in physics from the University of Rochester, joined the Lehigh faculty in 1966, served twice as Physics department chair and as interim Dean of the College of Arts and Sciences, and is a strong supporter of community

schools and urban education in south Bethlehem. The Council's specific roster, meeting cadence, and AI-relevant guidance are not enumerated in available sources beyond this reference.

5.2 People

Dean's Office and Department Leadership

Robin Hojnoski — Acting Dean, College of Education; Professor, School Psychology Program. Appointed July 1, 2024 for a two-year term by Provost Nathan Urban while Bill Gaudelli serves as Senior Vice Provost for Educational Innovation and Assessment. Master's in Child Study and Human Development from Tufts (1994); Ph.D. in School Psychology from the University of Massachusetts Amherst (2002). Hojnoski's research is in early childhood developmental assessment and intervention; she received a 2020 multi-site grant from the Institute for Education Sciences for "Development of a Responsive Computerized-Adaptive Assessment System for Pre-K Mathematics" — an AI-adjacent computational adaptive assessment project. She has published more than 33 scholarly articles and 10 book chapters, and serves on multiple editorial boards in school psychology.

Bill Gaudelli — Senior Vice Provost for Educational Innovation and Assessment, Dean on Assignment (8th Dean of the College of Education, on dean leave through approximately June 2026). Documented at length in Unit 7. Gaudelli was installed as the eighth Dean of the College of Education in 2018, having previously chaired the Department of Arts and Humanities at Teachers College, Columbia University. He is a founding member of the Lehigh Generative AI Advisory Group (Unit 7).

Patricia H. Manz — Department Chair, Education and Human Services (term ends 2028); Professor, School Psychology. Ph.D. from the Graduate School of Education at the University of Pennsylvania. Manz's research focuses on family-centered early intervention for young children experiencing socioeconomic disadvantage and on advancing the Little Talks home-visiting program. She has led several federally and foundation-funded research projects.

L. Brook Sawyer — Professor and Associate Dean for Graduate Studies; previous Director of the Center for Promoting Research to Practice. Sawyer's research focuses on language and literacy development for young children with disabilities and multilingual learners. She is the PI on a three-year, nearly \$2 million Development and Innovation Research Grant from the Institute of Education Sciences for the Parents Plus program — Lehigh's largest documented COE-led external research award in available sources.

Teaching, Learning and Technology Program (AI/Learning Sciences Hub)

Tom Hammond — Associate Professor and Program Director, Teaching, Learning and Technology Program. Hammond's research interests focus on "innovative curriculum approaches, integrating powerful technologies (such as geospatial tools, immersive virtual reality, and **generative artificial intelligence**) and critical thinking skills (such as spatial reasoning, computational thinking, and systems perspectives)." He earned his Ph.D. at the University of Virginia, where he was a designer, developer, and researcher of Primary Access — the first online video editor designed for K-12 instruction. Hammond's recent presentations include the March 2026 Society for Information

Technology and Teacher Education paper *Design considerations for integrating artificial intelligence into social studies curriculum-aligned instruction* (with COE doctoral student Erin Eberle Quilquin) and the 2024 AERA poster *Advancing Teachers' Geospatial TPACK via an Integrated Professional and Curriculum Development Program*. He published a recent op-ed on PennLive.com on AI literacy in schools and is faculty mentor to TLT doctoral students Yameng Cui and Erin Eberle Quilquin. Email tch207@lehigh.edu.

Alec M. Bodzin — Professor, Teaching, Learning and Technology Program; Director, Lehigh Environmental Initiative. Bodzin is the lead investigator on the **RiVR (Researching Immersive Virtual Reality)** project, a multi-year program developing immersive VR educational games for STEM learning in the Lehigh River watershed. The RiVR portfolio includes Watershed Explorers (and the October 2024 release Watershed Explorers: Industrial History), the Lehigh Gap Story, Flood Adventures (a flood preparedness simulation game), and other immersive learning experiences. The project is co-mentored with Hammond, Pan, and David Anastasio (Earth and Environmental Sciences, College of Arts and Sciences). RiVR explicitly integrates "VR, AI, GIS, along with game design features to broaden access to learning experiences for adolescents and adults." Bodzin chaired the dissertation committee of Robson Araujo-Junior, whose 2025 dissertation on RiVR implementation across three educational settings won the College's Elizabeth V. Stout Dissertation Award.

Zilong Pan — Assistant Professor, Teaching, Learning and Technology Program; one of Lehigh's first United Nations Faculty Fellows; co-organizer of the Lehigh AI Future Maker Strategy Grant program. zip322@lehigh.edu. Pan earned his Ph.D. and M.Ed. from the University of Texas at Austin and an M.A.T. from the University of Georgia, with prior teaching experience as a middle and high school teacher in Georgia. His three documented research focuses are: (1) **personalized learning environments enhanced with artificial intelligence**, (2) immersive learning experiences catering to diverse learner groups, and (3) instructional decision-making informed by learning analytics. Pan is the project mentor for **MathPal**, an AI-driven personalized math tutoring tool conceived as a Lehigh Global Social Impact Fellowship project deployed in India through the Agastya International Foundation. MathPal was designed to provide conversational conceptual and metacognitive support, recommend Khan Academy resources, generate step-by-step problem-solving guidance, and analyze learner performance across math units; during 2025 fieldwork in Karnataka the project evolved into **iCodePal**, an AI-powered coding companion applying the same conceptual and metacognitive support model to computational-thinking and programming instruction. Pan is on the Editorial Advisory Board of *Computers & Education* and is one of the four cross-college co-leads of the Lehigh AI Future Maker Strategy Grant program (alongside Justin Greenlee from CITL/LTS, Haiyan Jia from CAS Journalism and Communication, and Greg Surovcik from College of Business DATA). His recent conference presentations include AECT 2024 papers on prompt engineering for generative AI second language learning, gamified math problem-based learning, and "Human-AI collaboration: An exploratory study on students' trust, perceptions, and knowledge about GAI as a teammate." His

January 2026 *Phi Delta Kappan* feature article (with COE doctoral student Jiayan Zhu and retired teacher Jennifer Kling) outlines the benefits of gamification in math learning.

Shan Li — Assistant Professor, joint appointment between the College of Health's Department of Community and Global Health and the COE Department of Education and Human Services (50/50 split between the two colleges). Li is a learning scientist and educational technologist whose research integrates advanced learning technologies, learning analytics, machine learning, and educational data mining. His work explicitly focuses on using AI to predict student engagement levels by collecting student facial expression data and applying machine learning algorithms, and on using data mining techniques to identify student problem-solving patterns from behavior trace data and learning progress data. His stated professional goal at Lehigh is "to build an Institute or Research Center that is focused on the intersection of artificial intelligence and health professional education." During his McGill Ph.D. he spent six years working on an intelligent tutoring system for medical students practicing clinical reasoning skills. He recently received a collaborative NSF research award (with the University of Maryland and the University of Tennessee) for "Multimodal Immersive Training to Develop Expertise in Spatial-Temporal Reasoning for Fire Investigators" — a technology-based platform combining immersive simulation with teaching strategies. Li is also documented from the College of Health side in Unit 4 and is one of the few Lehigh faculty members holding a joint appointment with explicit AI-method research as the core of the work.

Minyi Dennis — Assistant Professor, Special Education Program. Dennis's research focuses on identification and intervention for students with mathematics disabilities and difficulties, assessment issues in special education, and the educational needs of students with specific learning disabilities. She received a National Science Foundation grant for "Exploring Sources of Heterogeneity in Supplemental Interventions for Students with Mathematics Difficulties within Multi-tiered Systems of Support: A Meta-Analysis" — with Zilong Pan as co-principal investigator. This is one of the few documented direct cross-program research collaborations between Special Education and TLT.

Floyd D. Beachum — Bennett Professor of Urban School Leadership; faculty in the Educational Leadership Program. Beachum's research interests include leadership in urban education, moral and ethical leadership, and social justice issues in K-12 schools. His most recent op-ed in the College's *TEACH magazine* addresses the challenges educators face as DEI initiatives face increased scrutiny. Beachum is not documented as an AI researcher but is referenced here as a senior named-chair holder in the College.

Lia Sandilos — Assistant Professor, School Psychology Program. Joined the College in 2022. Sandilos's research focuses on quality teacher-child interactions and relationships for the educational outcomes of diverse learners and on supporting teachers' professional well-being. She is a named co-

mentor on Pan's Lehigh Valley Social Impact Fellowship project portfolio with MathPal and other learning sciences applications.

Lee Her — New TLT faculty member welcomed to the College in fall 2024. Her CV and research portfolio are not consolidated in available sources surfaced for this dossier.

Doctoral Students with AI Research Activity

Robson M. Araujo-Junior — Recently graduated TLT Ph.D. (2025), now Assistant Professor at Kutztown University College of Education. Araujo-Junior received the Elizabeth V. Stout Dissertation Award for his dissertation on the implementation of immersive virtual reality learning experiences across three different educational settings, using both headset and desktop VR platforms — the first study to investigate VR implementation across three educational settings according to his dissertation committee chair Alec Bodzin. His dissertation work was the foundation of the RiVR project's Watershed Explorers and Lehigh Gap Story games. He continues to publish with the Bodzin/Hammond/Pan group.

Yameng Cui — Doctoral student in the TLT program; faculty mentor Tom Hammond. Cui received a Graduate Student Research Grant from the American Educational Research Association (AERA) Division H (Research, Evaluation, and Assessment in Schools).

Shiyi Liu — Ph.D. student in the TLT program; recipient of the December 2024 Lehigh AI Project Award for her project *A Systematic Review of AI Ethics Education for K-12 and Higher Education*, which addresses how AI ethics is taught by analyzing key topics, instructional strategies, and challenges, with the aim of informing the design of improved curricula. This is one of the three documented College-of-Education contributions to the 2024 Lehigh AI Future Maker Strategy Grant cohort.

Jiayan Zhu — Doctoral student in the TLT program; co-author of Pan's January 2026 *Phi Delta Kappan* article on gamification in math learning.

Erin Eberle Quilinquin — Doctoral student in the TLT program; co-author with Hammond on the March 2026 SITE conference paper *Design considerations for integrating artificial intelligence into social studies curriculum-aligned instruction*.

5.3 Teaching & Curriculum

Certificate in Artificial Intelligence and Learning Analytics

The **Certificate in Artificial Intelligence and Learning Analytics** is the College of Education's flagship AI offering and the only standalone AI-titled credential offered by any Lehigh college in available sources. It is a 4-course (12-credit) graduate certificate that "prepares teachers, learning designers, and instructional technologists to work with artificial intelligence (AI) and learning analytics in their professional contexts." All classes are offered online and can be taken in a flexible sequence, culminating in a capstone course in which students design and implement their own AI integration. The certificate is housed in the Teaching, Learning and Technology program, which is documented in the Lehigh University course catalog as the program's primary AI/learning analytics offering: "This 12-credit graduate certificate program will allow educators, researchers, and developers to expand their

skills with artificial intelligence (AI) and learning analytics for use in a variety of educational settings. Students will have the opportunity to explore learning theories and data visualization techniques, access and manage AI systems, and apply their understandings and skills in selected field settings."

The 2026 College Summer Institute, held at Thammasat University in Bangkok, Thailand, will offer two new AI-in-education courses (week 2) that can be applied to the Certificate with an approved curriculum exception: courses described as "hands-on" with a focus on "find[ing], evaluat[ing], and implement[ing] AI tools in education" and engaging with "various AI tools to build AI literacy, understand best practices for AI use, and discuss ethical considerations." One of the documented Special Topics courses in the TLT program is **TLT 462: Special Topics in Teaching, Learning, and Technology — AI and Language Education** (week 2 at the Bangkok Summer Institute), which can be applied to the certificate.

Other AI and Technology-Adjacent TLT Courses

TLT 350: Introduction to Learning Analytics (3 credits) — "Data-informed decision-making is essential for improving teaching and learning practices. This course is designed for anyone interested in using data to improve education and learning outcomes. This course will provide you with the skills and knowledge necessary to succeed in the growing field of learning analytics. This course covers the basics of learning analytics (LA), including LA concepts, models, frameworks, and techniques."

The College also offers:

- **Certificate in Game-Based Learning** — a 4-course certificate for educators integrating game-based pedagogy into formal or informal educational settings, complementing the AI and Learning Analytics Certificate.
- **Certificate in Learning Design in Educational and Professional Settings** — a 12-credit certificate aimed at post-certification, in-service teachers, informal educators, and professionals seeking to expand pedagogical and instructional technology knowledge.
- **M.S. in Instructional Technology** — 30-credit master's degree giving students "the tools to incorporate a diverse range of technology in learning and instruction" through in-person, online, and hybrid options including intensive eight-day summer institutes.

Undergraduate Learning Sciences Minor

The College offers a 15-credit **Learning Sciences undergraduate minor** that draws on cognitive science, psychology, data science, and education to "create more effective and equitable learning environments." The minor is highly applicable to undergraduates from various disciplines and is a documented entry point for undergraduates without an Education major to engage with learning analytics and instructional technology coursework.

TLT Program Doctoral Track

The Teaching, Learning, and Technology program offers a Ph.D. with research areas including instructional technology, learning analytics, and emerging educational technologies. The current doctoral cohort includes Yameng Cui, Shiyi Liu, Jiayan Zhu, and Erin Eberle Quilquin (all named

above). The doctoral program was the home of recent graduate Robson Araujo-Junior's dissertation on RiVR implementation.

5.4 Tools & Technology

MathPal (AI-Driven Math Tutoring Tool)

MathPal is the most concrete documented example of an AI-driven educational tool developed by College of Education faculty. Built as a Lehigh Global Social Impact Fellowship project under Zilong Pan's mentorship, MathPal is "an AI tool designed to serve as a personalized learning partner for K-12 students and adult learners" deployed in India through partnership with K-12 math teachers from the Agastya International Foundation. The tool provides personalized conversational support in two modes: **conceptual** (explanations, practice questions, recommended Khan Academy instructional videos, step-by-step problem-solving guidance with hints rather than answers) and **metacognitive** (analyzes learner performance, identifies incorrectly answered questions, generates a comprehensive report on strengths and weaknesses across math units, and provides targeted strategies based on performance). MathPal redirects off-topic conversation by demonstrating mathematical applications in unrelated fields (e.g., music). Next steps for the project as documented in Spring 2025 sources include dashboard development and usability testing, with student contributors recruited for "front-end development skills, particularly in JavaScript, as well as those familiar with machine learning techniques, especially natural language processing (NLP)." During summer 2025 fieldwork in Karnataka the project evolved into iCodePal, which applies the same two-mode conceptual and metacognitive support architecture to computational-thinking and programming instruction; the Creative Inquiry project page now documents the iCodePal stage.

RiVR Immersive Virtual Reality Project

The **RiVR (Researching Immersive Virtual Reality)** project is led by Alec Bodzin with Tom Hammond, Zilong Pan, and David Anastasio (Earth and Environmental Sciences, CAS) as co-mentors and faculty collaborators. The project develops immersive virtual reality educational games using a "novel design and development approach with VR, AI, GIS, along with game design features to broaden access to learning experiences for adolescents and adults." The game portfolio includes:

- **Watershed Explorers** — desktop VR exploration of the Lehigh River watershed, watershed literacy, and spatial features
- **Watershed Explorers: Industrial History** (released October 2024) — focused on the industrial history of the Lehigh Valley including Bethlehem Steel, Atlas Cement Company, the Thomas Ironworks, and the Palmerton Zinc smelting plant; developed in partnership with the Delaware & Lehigh National Heritage Corridor National Canal Museum, the Jacobsburg Environmental Education Center, the Lehigh Gap Nature Center, and the Nurture Nature Center
- **The Mystery of the Lehigh Gap** — game-based VR for informal learning
- **Flood Adventures** — flood preparedness simulation game

The RiVR team includes more than a dozen students each year — undergraduates from multiple majors, graduate students from the College of Education, and senior students working on Capstone projects in computer science. The project is documented at length on the Creative Inquiry website and through the Environmental Literacy & Inquiry research group at eli.lehigh.edu.

Institutional Tools

The College of Education uses the institutional Lehigh AI tool stack — the LLM Gateway, Google Gemini, NotebookLM, DataCamp, and approved tools — through standard LTS pathways documented in Unit 8. No College-of-Education-specific AI tool deployments are documented separately from the institutional stack beyond the TLT research portfolio (MathPal, RiVR) and Shan Li's facial-expression engagement-detection ML pipeline. The Centennial School (laboratory school for children with challenging behaviors) and Lehigh University Autism Services (LUAS) operate as embedded technology-enabled facilities under the College's umbrella but their AI tool deployments are not enumerated in available sources.

5.5 Research & Scholarship

TLT Faculty AI Research Portfolio

The College's documented AI research is concentrated in the Teaching, Learning and Technology program and centers on three thematic clusters: **personalized learning environments enhanced with AI** (Pan), **immersive virtual reality with AI integration** (Bodzin, Hammond, Pan), and **machine learning applied to student engagement and learning analytics** (Shan Li, Pan).

Pan's research portfolio is the most directly AI-focused in the College. Recent presentations at the Association for Educational Communications and Technology (AECT) and American Psychological Association (APA) include work on:

- *The application of prompt-engineering in designing generative AI-incorporated second language learning platform* (AECT 2024)
- *Human-AI collaboration: An exploratory study on students' trust, perceptions, and knowledge about GAI as a teammate* (AECT 2024)
- *Mathmagician: Co-creating an AI-based culturally responsive math word problem generator with educators and learners* (AECT 2023)
- *Investigating the impact of gamification on online learners' engagement* (AERA 2024)
- *Taking a leap or decrement? An innovative approach to detect students' change points via game-play log data* (AECT 2024)

His December 2024 publication in the *Journal of Research on Technology in Education* — "Impacts of different gamified problem-solving integration approaches on elementary math: an engagement and metacognitive knowledge perspective" (Pan, Li, Zheng, and Biegly) — investigated the effects of two distinct gamified problem-solving integration approaches on student engagement and metacognitive knowledge in elementary mathematics.

Hammond's research integrates geospatial tools, immersive virtual reality, and generative AI into K-12 social studies and science instruction. His March 2026 SITE conference paper with doctoral student Erin Eberle Quilquin specifically addresses "design considerations for integrating artificial intelligence into social studies curriculum-aligned instruction" — one of the most directly AI-focused recent publications from the program. He has also published on geospatial TPACK (Technological Pedagogical Content Knowledge) development and geo-computational thinking in elementary education.

Bodzin's RiVR portfolio integrates VR and AI for STEM and environmental education and is documented in 5.4 above. Recent publications include the 2024 *Multimedia Tools and Applications* paper "Implementation of a desktop virtual reality field trip in public outreach settings" (Bodzin, Fu, Araujo-Junior, Hammond, Anastasio, Schwartz) and multiple Immersive Learning Research Network (iLRN) conference papers from 2019-2024.

Shan Li's research uses machine learning and educational data mining to analyze student learning processes. His research collects student facial expression data and applies machine learning algorithms to predict student engagement levels, and uses data mining to find student problem-solving patterns from behavior trace and learning progress data. His recent NSF collaborative research grant for "Multimodal Immersive Training to Develop Expertise in Spatial-Temporal Reasoning for Fire Investigators" extends this approach to professional training contexts in fire investigation, in collaboration with the University of Maryland and the University of Tennessee.

Cross-Program Research Collaborations

Minyi Dennis (Special Education) and Zilong Pan (TLT) are co-investigators on the NSF grant *Exploring Sources of Heterogeneity in Supplemental Interventions for Students with Mathematics Difficulties within Multi-tiered Systems of Support: A Meta-Analysis*, with Dennis as PI and Pan as co-PI. This is one of the few documented direct cross-program research collaborations between Special Education and TLT.

Bodzin, Hammond, Pan, and Fu received a 2023-2024 Lehigh University Faculty Research Grant of \$5,949 for "Immersive Learning with Headset Virtual Reality Game-Based Experiences" — a small institutional grant that supported the expansion of the RiVR portfolio to headset VR.

Brook Sawyer's IES-Funded Parents Plus Program

Outside the TLT-centered AI portfolio, the College's largest documented external research grant is **Brook Sawyer's three-year, nearly \$2 million Development and Innovation Research Grant from the Institute of Education Sciences** for the Parents Plus program. The grant facilitates Sawyer's continued development and extension of Parents Plus, which was previously also funded by IES and is described as a research-based parent-engagement application.

Lehigh AI Future Maker Strategy Grant Contributions

Three of the twenty-six contributors to the 2024 Lehigh AI Future Maker Strategy Grant cohort were affiliated with the College of Education. Documented contributions include: 1. **Zilong Pan** — co-organizer (cross-college co-lead) of the entire Lehigh AI Future Maker Strategy Grant program

alongside Justin Greenlee (CITL/LTS), Haiyan Jia (CAS), and Greg Surovcik (Business). Pan is the College of Education contact for the program. 2. **Shiyi Liu** — TLT Ph.D. student, recipient of the Lehigh AI Project Award for *A Systematic Review of AI Ethics Education for K-12 and Higher Education*, which addresses how AI ethics is taught by analyzing key topics, instructional strategies, and challenges with the aim of informing improved curriculum design. 3. The third College-of-Education contributor in available sources is not specifically enumerated by name in the public Preserve Lehigh AI sub-collection summary, but the contributor count of three is confirmed in the published Lehigh AI Preserve breakdown of the cohort.

5.6 Events & Programming

2024 COE Distinguished Dean's Lecture

The College's most prominent recent public event with AI-adjacent content was the **2024 College of Education Distinguished Dean's Lecture by James L. Moore III**, Assistant Director for the Directorate for STEM Education at the National Science Foundation, held at Ben Franklin Technology Partners. Moore met with TLT program faculty and students before delivering his lecture, which addressed the current state of education in the United States, a path forward, and NSF funding opportunities for educators and researchers. Moore was hosted by Acting Dean Robin Hojnoski and TLT Program Director Tom Hammond, and emphasized the need for "technology, creativity and collaboration" if the country is "not [to] lose a generation" of students. This event is one of the most direct documented connections between the College and federal STEM education funding agencies in available sources.

Pan's Phi Delta Kappan Article and Public Communication

Zilong Pan's January 2026 feature article in *Phi Delta Kappan* (with COE doctoral student Jiayan Zhu and Jennifer Kling, retired computer science teacher and district partnerships manager at Suntex International) outlines the benefits of gamification in math learning. The article was promoted on the College of Education website as a flagship publication and is one of the most prominent recent COE faculty publications in a practitioner-facing education journal.

Hammond's PennLive Op-Ed on AI Literacy

Tom Hammond published a recent op-ed on PennLive.com on the importance of AI literacy in schools, framed around his research on integrating AI into K-12 instruction. This is one of the few documented public-facing pieces by a Lehigh COE faculty member specifically arguing for AI literacy as a curricular priority.

Global Programs Summer Institute

The College's **Global Programs Summer Institute** runs annually from late June through mid-July, alternating between Europe and Asia. The 2025 Institute was held in Athens, Greece, and the 2026 Institute is scheduled at Thammasat University in Bangkok, Thailand. The 2026 Bangkok Institute will introduce two new AI-in-education courses that can be applied to the Certificate in Artificial Intelligence and Learning Analytics with an approved curriculum exception. Participants in past

Institutes include masters and certificate students in the International School Counseling (INCO) and College Admissions Counseling programs.

James Moore Visit and STEM Education Programming

Beyond the Distinguished Dean's Lecture, James L. Moore III's January 2025 visit to Lehigh included meetings with Teaching, Learning, and Technology (TLT) program faculty and students. This event represents one of the most concrete connections between COE faculty and federal STEM funding leadership in available sources.

COE Mountain Talks

The College offers a regular "Mountain Talks" series, with examples including Lia Sandilos's December 2024 virtual Mountain Talk on Social-Emotional Wellness and other faculty research presentations. AI-themed Mountain Talks are not specifically enumerated in available sources beyond the Bodzin/Hammond/Pan RiVR work that has been featured in COE news.

Gaps and Observations

The College of Education's AI activity is concentrated in a small number of TLT faculty (Pan, Hammond, Bodzin, Shan Li) and a small doctoral cohort (Cui, Liu, Zhu, Eberle Quilinquin, recently graduated Araujo-Junior). The College's only standalone AI-titled credential — the Certificate in Artificial Intelligence and Learning Analytics — is housed entirely within the TLT program and depends on this small faculty group for its course delivery. The depth of the certificate's enrollment, completion rates, and post-completion outcomes are not surfaced in available public sources.

The AI Tutor Project documented at length in Unit 7 (Provost cluster, OEIA, CITL) is not directly housed in the College of Education despite its obvious thematic overlap with the TLT program's work. Whether COE TLT faculty are formally involved as collaborators on the AI Tutor Project beyond Pan's general Lehigh AI Future Maker co-lead role is not documented in available sources. This is a notable disconnection between the institutional AI Readiness initiative and the College that holds the primary AI-in-education academic program.

Brook Sawyer's nearly \$2 million IES-funded Parents Plus program is the College's largest documented external grant and is referenced as an early example of using research-based approaches to develop educational tools, but the Parents Plus program is not specifically AI-themed in the available sources surfaced for this dossier — its connection to the College's AI portfolio is therefore tangential rather than central.

The College's connection to Lehigh's institutional AI governance flows almost entirely through Bill Gaudelli's Senior Vice Provost role rather than through the deanship itself. With Gaudelli on dean leave through approximately June 2026, the College's institutional AI voice is currently bifurcated between the Acting Dean's office (Hojnoski, who is not documented as personally engaged in AI research or governance) and the Provost cluster (Gaudelli, in his Senior Vice Provost capacity). The implications for the College's AI strategy after Gaudelli returns to the deanship are not surfaced in available sources.

The third College-of-Education contributor to the 2024 Lehigh AI Future Maker Strategy Grant cohort beyond Pan and Liu is not specifically named in the public Preserve Lehigh AI sub-collection summary; the count of three is confirmed but the third name is a documentation gap.

The College does not maintain a separate AI policy or AI principles document; its AI governance flows through the institutional Lehigh frameworks documented in Units 7 and 8 plus the curriculum offerings in the TLT program. Whether the College plans to develop college-level guidance specifically for its programs (e.g., Counseling Psychology, Educational Leadership, School Psychology, Special Education) is not surfaced in available sources.

Cross-References

- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** Bill Gaudelli is on dean leave from the College of Education while serving as Senior Vice Provost for Educational Innovation and Assessment, a Provost-cluster role with founding membership in the Lehigh Generative AI Advisory Group; Robin Hojnoski leads the College day-to-day as Acting Dean during this period.
- **Library and Technology Services cluster (Unit 8):** Zilong Pan co-leads the Lehigh AI Future Maker Strategy Grant program with Justin Greenlee (CITL/LTS), Haiyan Jia (CAS), and Greg Surovcik (Business); CITL coordinates with the College on instructional technology training and faculty development.
- **College of Health (Unit 4):** Shan Li holds a 50/50 joint appointment between COH's Department of Community and Global Health and COE's Department of Education and Human Services, with explicit AI/ML research as the core of his work; Lia Sandilos is documented as an affiliated faculty contact for College of Health work. Patricia Manz (EHS Chair) is also listed as Affiliated Faculty in the College of Health.
- **College of Arts and Sciences (Unit 2):** David Anastasio (Professor, Earth and Environmental Sciences) is a co-mentor with Bodzin, Hammond, and Pan on the RiVR project; Pan is one of the four co-leads of the Lehigh AI Future Maker Strategy Grant program alongside Haiyan Jia (CAS Journalism and Communication).
- **College of Business (Unit 3):** Greg Surovcik (DATA Visiting Lecturer) co-leads the Lehigh AI Future Maker Strategy Grant program with Pan; the cross-college coordination of the Lehigh AI initiative runs through this four-person leadership team.
- **I-DISC (Unit 6):** Education and Human Services contributes Kathryn Burke and Zilong Pan to the I-DISC affiliated faculty roster.
- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** RiVR project's senior Capstone projects in computer science recruit Rossin Engineering undergraduates for the front-end development and machine learning components of the immersive VR games.
- **Office of Research (Unit 9):** External grants including Brook Sawyer's \$2M IES Parents Plus award, Minyi Dennis's NSF math interventions meta-analysis (with Pan as co-PI), and Shan Li's NSF fire investigation training collaborative grant flow through the Office of Research grant administration.

- **Part I, Section III (Teaching & Learning Posture):** The Certificate in Artificial Intelligence and Learning Analytics is the only standalone AI-titled credential offered by any Lehigh college in available sources and contributes to Part I Section III's narrative on teaching posture.
- **Part I, Section VIII (Infrastructure & Strategic Investment Signals):** The Bodzin/Hammond/Pan/Fu 2023-2024 Faculty Research Grant (\$5,949) and the Dennis/Pan NSF math interventions grant constitute small but documented institutional and federal investments in COE-side AI research infrastructure.

Sources

Lehigh College of Education — *The College of Education and Department Chairs List* (Lehigh Provost) — documenting the single-department college structure with five programs (Counseling Psychology, Educational Leadership, School Psychology, Special Education, Teaching, Learning and Technology), the Centennial School, CPRP, LUAS, and the current Department Chair Patricia Manz (term ends 2028)

<https://ed.lehigh.edu/about/college-of-education>

Lehigh College of Education — *Certificate, Artificial Intelligence and Learning Analytics* — 4-course (12-credit) graduate certificate, fully online with capstone, the only standalone AI-titled credential offered by any Lehigh college in available sources

<https://ed.lehigh.edu/academics/certificates/certificate-artificial-intelligence-and-learning-analytics>

Lehigh College of Education — Teaching, Learning and Technology program faculty roster including Tom Hammond, Alec Bodzin, Zilong Pan, and Shan Li (joint COH/COE), and Araujo-Junior dissertation award announcement noting Pan's UN Faculty Fellow appointment

<https://ed.lehigh.edu/about/teaching-learning-and-technology-program>

Lehigh Preserve — *Lehigh AI* collection — documenting the 26 contributors across 20 funded projects in the 2024 Future Maker Strategy Grant cohort, with 3 contributors from the College of Education; confirms Zilong Pan as the College of Education contact (zip322@lehigh.edu) and one of the four cross-college co-leads of the program alongside Greenlee, Jia, and Surovcik

<https://preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai>

Lehigh University course catalog — *College of Education* — documenting the academic programs, post-baccalaureate certificate offerings (including Artificial Intelligence and Learning Analytics, Behavior Analysis, College Admissions Counseling, Game-Based Learning, International School Counseling, Learning Design, Mental Health and Education of Latin American People, Social-Emotional-Behavioral Wellness, TESOL, and the Pennsylvania state certifications), and the supporting facilities (Centennial School, LUAS)

<https://catalog.lehigh.edu/coursesprogramsandcurricula/education/>

Lehigh University News — *Shifting Roles: Robin Hojnoski Named the College of Education's Acting Dean* (May 2025) — confirming Hojnoski's two-year acting deanship beginning July 1, 2024, her seventeen years on the COE faculty, prior associate dean of graduate education role (2020-2024), Tufts MA and UMass Amherst PhD, and Bill Gaudelli's parallel two-year sabbatical to serve as Senior Vice Provost for Educational Innovation and Assessment; also confirms Hojnoski's 2020 IES grant for the Responsive Computerized-Adaptive Assessment System for Pre-K Mathematics

<https://news.lehigh.edu/shifting-roles-robin-hojnoski-named-the-college-of-educations-acting-dean>

Lehigh College of Education — *Lin Receives the Lehigh AI Project Award* (December 2024) — documenting Shiyi Liu's TLT Ph.D. program affiliation, the December 2024 Lehigh AI Project Award, and her project *A Systematic Review of AI Ethics Education for K-12 and Higher Education* funded by the Lehigh AI and Future Makers Grant; contains a sidebar announcing Brook Sawyer's three-year, nearly \$2 million IES Development and Innovation Research Grant for the Parents Plus program (her associate dean role is additionally documented on her College of Education faculty page)

<https://ed.lehigh.edu/news/2024/liu-receives-lehigh-ai-project-award>

Lehigh University Office of the Provost — *Department Chairs List* — documenting Patricia Manz as Department Chair of Education and Human Services with term ending 2028

<https://provost.lehigh.edu/departments-information/departments-chairs-list>

Lehigh College of Education — *Dr. Patricia H. Manz* faculty page — documenting Manz's University of Pennsylvania PhD, research focus on family-centered early intervention for socioeconomically disadvantaged young children, and the Little Talks home-visiting program

<https://ed.lehigh.edu/faculty/dr-patricia-h-manz>

Lehigh College of Education — *The Dean's Office* — documenting Hojnowski's appointment by Provost Urban for the two-year period beginning July 1, 2024 with Gaudelli's parallel Senior Vice Provost role (Gaudelli's GenAI Advisory Group founding membership is documented in Unit 7), and the Dean's Advisory Council structure as individuals "from a wide range of professions and experiences who provide council to the Dean on a range of strategic initiatives"

<https://ed.lehigh.edu/about/deans-office>

Lehigh University News — *William Gaudelli Installed as College of Education Dean* — documenting Gaudelli's installation as the eighth Dean in 2018, his prior role as chair of the Department of Arts and Humanities at Teachers College Columbia University, and his succession of Gary Sasso who retired at the conclusion of the 2017-2018 academic year

<https://news.lehigh.edu/william-gaudelli-installed-as-college-of-education-dean>

Lehigh College of Education — *Dr. Thomas C. Hammond* faculty page — documenting Hammond's research interests in "innovative curriculum approaches, integrating powerful technologies (such as geospatial tools, immersive virtual reality, and generative artificial intelligence) and critical thinking skills"

<https://ed.lehigh.edu/faculty/dr-thomas-c-hammond>

Lehigh Confluence — *Thomas C. Hammond / Tom Hammond* personal wiki — documenting recent presentations including Hammond/Eberle Quinquennial SITE 2026 paper on AI in social studies instruction, the Bodzin/Hammond/Pan/Fu 2023-2024 Faculty Research Grant (\$5,949), TLT course assignments, and the geospatial TPACK research portfolio

<https://lehigh.atlassian.net/wiki/spaces/~tch207/overview>

Lehigh College of Education — *Immersing in Our Industrial History – A New VR Experience in the Lehigh Valley* (October 2024) — documenting the Watershed Explorers: Industrial History release in partnership with the Delaware & Lehigh National Heritage Corridor National Canal Museum, Jacobsburg Environmental Education Center, Lehigh Gap Nature Center, and Nurture Nature Center; references Tom Hammond's PennLive op-ed on AI literacy in schools; welcomes Lee Her as a new TLT faculty member

<https://ed.lehigh.edu/news/2024/immersing-our-industrial-history-new-vr-experience-lehigh-valley>

Lehigh Creative Inquiry — *Lehigh RiVR: Immersive Virtual Reality Gaming* — documenting the RiVR project's faculty co-mentors (Bodzin, Hammond, Pan, Anastasio), the explicit "VR, AI, GIS, along with game design features" framing, and the team composition with undergraduates, graduate students, and senior CS Capstone students

<https://creativeinquiry.lehigh.edu/impactfellowships/lehigh-valley-social-impact-fellowship/lehigh-rivr-immersive-virtual-reality-gaming>

Lehigh College of Education — *Araujo-Junior Selected as Elizabeth V. Stout Dissertation Award Recipient* (May 2025) — documenting Araujo-Junior's award, his RiVR dissertation, Bodzin as dissertation chair, Hammond's nomination, Pan's appointment as one of Lehigh's first United Nations Faculty Fellows, and Yameng Cui's AERA Division H research grant under Hammond's faculty mentorship

<https://ed.lehigh.edu/news/2025/araujo-junior-selected-elizabeth-v-stout-dissertation-award-recipient>

Lehigh College of Education — *Dr. Zilong Pan* faculty page — documenting Pan's three research focus areas including "personalized learning environment enhanced with artificial intelligence," immersive learning, and learning analytics; Texas at Austin Ph.D. and M.Ed., Georgia M.A.T.

<https://ed.lehigh.edu/faculty/dr-zilong-pan>

Lehigh Creative Inquiry — *iCodePal: Where Students and AI Team Up to Master Coding* — the live project page for the Global Social Impact Fellowship project that began as MathPal (AI math tutoring) under Zilong Pan and evolved into iCodePal, an

AI-powered coding companion deployed in Karnataka, India through the Agastya International Foundation, providing conceptual and metacognitive conversational support

<https://creativeinquiry.lehigh.edu/impact-fellowships/global-social-impact-fellowship/mathpal-where-students-and-ai-team-conquer-math>

Zilong Pan CV (PDF) — Lehigh College of Education faculty CV documenting AECT 2024, AECT 2023, AERA 2024, and APA 2024 conference presentations on prompt engineering, generative AI for second language learning, gamified math problem-based learning, AI-based culturally responsive math word problem generators, and human-AI collaboration in classroom contexts

https://ed.lehigh.edu/sites/ed.lehigh.edu/files/Zilong_Pan_CV_2.pdf

Lehigh College of Education — *Gamification Engages Students in Math Learning* (January 2026) — documenting the Pan/Zhu/Kling January 2026 Phi Delta Kappan feature article on gamification in math learning

<https://ed.lehigh.edu/news/2026/gamification-engages-students-math-learning>

Lehigh College of Health — *Faculty profile: Meet Shan Li* — documenting Shan Li's 50/50 joint appointment between the College of Health and the College of Education, his use of AI to predict student engagement levels through facial expression data, and his stated goal of building an institute on AI in health professional education

<https://health.lehigh.edu/blog/faculty-profile-meet-shan-li>

Lehigh College of Education — *Dr. Shan Li* faculty page — documenting Li's research portfolio including learning analytics, machine learning, educational data mining, and Artificial Intelligence in Education (AIED), and his McGill PhD work on intelligent tutoring systems for medical students

<https://ed.lehigh.edu/faculty/dr-shan-li>

Lehigh College of Health — *College of Health Professor Shan Li Receives NSF Award to Advance Fire Investigation Training* (September 2025) — documenting Li's collaborative NSF research grant with the University of Maryland and the University of Tennessee for "Multimodal Immersive Training to Develop Expertise in Spatial-Temporal Reasoning for Fire Investigators" and confirming his joint COH/COE appointment

<https://health.lehigh.edu/news/college-of-health-professor-shan-li-receives-nsf-award-to-advance-fire-investigation-training>

Lehigh College of Education — *Dr. Minyi Dennis* faculty page — documenting Dennis's research focus on identification and intervention for students with mathematics disabilities and difficulties

<https://ed.lehigh.edu/faculty/dr-minyi-dennis>

Lehigh College of Education — *Dr. Floyd D. Beachum* faculty page — documenting Beachum as the Bennett Professor of Urban School Leadership in the Educational Leadership Program with research on leadership in urban education, moral and ethical leadership, and social justice issues in K-12 schools

<https://ed.lehigh.edu/faculty/dr-floyd-d-beachum>

Lehigh College of Education — *Lehigh's College of Education Welcomes New Faculty Cohort for the 2022–2023 Year* — documenting Lia Sandilos as Assistant Professor of School Psychology and her research on quality teacher-child interactions and supporting teachers' professional well-being

<https://ed.lehigh.edu/news/2022/lehighs-college-education-welcomes-new-faculty-cohort-2022-2023-year>

Lehigh Creative Inquiry — *Lehigh Valley Social Impact Fellowship* — documenting Lia Sandilos as a co-mentor with Pan on Lehigh Valley Social Impact Fellowship learning sciences projects

<https://creativeinquiry.lehigh.edu/impactfellowships/lehigh-valley-social-impact-fellowship>

Lehigh University course catalog — *Teaching, Learning, and Technology* program description — documenting the 12-credit Certificate in AI and Learning Analytics, the TLT 350 *Introduction to Learning Analytics* course (3 credits), and the program's degree offerings (master's, doctoral, certificates)

<https://catalog.lehigh.edu/coursesprogramsandcurricula/education/teachinglearningandtechnology/>

Lehigh College of Education — *Global Programs* — documenting the 2026 Bangkok Summer Institute at Thammasat University, the new AI-in-education courses (TLT 462 Special Topics: AI and Language Education, week 2), and the certificate exception pathway; the page's news section documents Minyi Dennis's NSF grant "Exploring Sources of Heterogeneity in

Supplemental Interventions for Students with Mathematics Difficulties within Multi-tiered Systems of Support: A Meta-Analysis" with Zilong Pan as co-principal investigator

<https://ed.lehigh.edu/about/global-programs>

Lehigh College of Education — *Certificate, Game-Based Learning* — 4-course certificate complementing the AI and Learning Analytics Certificate

<https://ed.lehigh.edu/academics/certificates/certificate-game-based-learning>

Lehigh College of Education — *Certificate, Learning Design in Educational and Professional Settings* — 12-credit certificate aimed at post-certification, in-service teachers, informal educators, and professionals

<https://ed.lehigh.edu/academics/certificates/certificate-learning-design-educational-and-professional-settings>

Lehigh College of Education — *M.S. Instructional Technology* — 30-credit master's degree with in-person, online, and hybrid options including intensive eight-day summer institutes

<https://ed.lehigh.edu/academics/masters-degrees/ms-instructional-technology>

Lehigh University course catalog — *Education and Human Services* — documenting the 15-credit Learning Sciences undergraduate minor drawing on cognitive science, psychology, data science, and education

<https://catalog.lehigh.edu/coursesprogramsandcurricula/education/education/>

Taylor & Francis — *Journal of Research on Technology in Education* — Pan, Li, Zheng, and Biegley (December 2024), "Impacts of different gamified problem-solving integration approaches on elementary math: an engagement and metacognitive knowledge perspective," published in Volume 58, Issue 2

<https://www.tandfonline.com/doi/full/10.1080/15391523.2024.2437740>

Lehigh Environmental Literacy & Inquiry research group — *Research* page — documenting the

Bodzin/Hammond/Pan/Araujo-Junior/Anastasio publication portfolio in immersive VR for STEM education from 2018-2024 including iLRN conference papers and journal publications in *Multimedia Tools and Applications*, *Journal of Science Education and Technology*, and *Innovations in Science Teacher Education*

<https://eli.lehigh.edu/research>

Lehigh University News — *James Moore Visit Highlights Importance of STEM Education* (January 2025) — documenting James L. Moore III's visit as NSF Assistant Director for the Directorate for STEM Education, his meetings with TLT faculty and students, his presentation of the 2024 College of Education Distinguished Dean's Lecture at Ben Franklin Technology Partners, and the participation of Acting Dean Hojnoski and TLT Program Director Hammond

<https://news.lehigh.edu/james-moore-visit-highlights-importance-of-stem-education>

6.

I-DISC — Institute for Data, Intelligent Systems, and Computation

KEY SIGNALS

I-DISC is Lehigh's primary cross-college research institute for data, intelligent systems, machine learning, and computation, with affiliated faculty drawn from all five colleges and the institute's leadership rotating through new hands as recently as August 2025 with the return of Héctor Muñoz-Avila from a stint as a Program Director at the National Science Foundation. The institute operates a doctoral-fellow service model — part-time research assistance from advanced doctoral students in data science, machine learning, programming, or social-science methods — that since 2021 has supported faculty projects ranging from Ebola spillover modeling to medical-image deep learning to international trade data ingestion at no cost to the PI. I-DISC was launched in 2018 as one of three Lehigh Interdisciplinary Research Institutes following an envisioning process led by Rossin College Dean Stephen DeWeerth, and its founding NSF TRIPODS-X grant established the workshop series model that defined its first phase.

The Institute for Data, Intelligent Systems, and Computation is one of Lehigh's three Interdisciplinary Research Institutes (IRIs), administratively associated with the P.C. Rossin College of Engineering and Applied Science but operationally cross-college. Its faculty roster draws from all five Lehigh colleges. I-DISC's stated mission is to catalyze, support, and promote interdisciplinary and collaborative research in machine learning, optimization, data science, system architecture, robotics, computer vision, human-computer interaction, finance, privacy and security, cyber-physical systems, energy, and materials science. The institute's main office is in Building C on Lehigh's Mountaintop Campus.

6.1 Governance & Policy

Founding and Structure

I-DISC's institutional history traces to the fall 2016 Envisioning Process initiated by the Rossin College, which sought to identify research areas where Lehigh could differentiate itself by building on existing strengths and University investment. In summer 2017, then-Dean Stephen DeWeerth invited faculty to form the Data Science and Intelligent Systems Faculty Council, drawing primarily from engineering but also from other colleges. Co-chairs were Katya Scheinberg (Industrial and Systems Engineering) and Héctor Muñoz-Avila (Computer Science and Engineering). Other founding members included Wei-Min Huang (Mathematics), Wonpil Im, Brian Davison, Paolo Bocchini, Srinivas Rangarajan, Parv Venkitasubramaniam, Rebecca Wang (Marketing), and Nader Motee. In fall

2017, the Council voted to name the proposed institute "DISC: Data, Intelligent Systems and Computation."

The three initial IRIs were announced by the Provost in April 2018, with Scheinberg and Muñoz-Avila as I-DISC's founding co-directors. Institute operations began in earnest in fall 2018, and faculty across Lehigh were invited to become I-DISC members.

I-DISC sits within Lehigh's broader IRI architecture alongside the Institute for Cyber Physical Infrastructure and Energy (I-CPIE) and the Institute for Functional Materials and Devices (IFMD). The IRIs share administrative support and a Research Engagement Officer, Kevin Major, who supports all three.

Policies on AI Research Practice

I-DISC does not maintain its own AI research ethics policy distinct from Lehigh's institutional policies. Research involving AI at Lehigh is governed by the Office of Research's GenAI guidance (covered in Unit 9), the Acceptable Use of Computing Systems Policy, the Data Classification Framework (Unit 8), and the Lehigh AI Principles (Unit 7). I-DISC's published guidance focuses on access to compute resources, fellows services, and funding opportunities rather than on conduct.

Faculty Membership

I-DISC membership is open to Lehigh faculty across all colleges with research interests in data, intelligent systems, or computation. The current public roster lists scores of affiliated faculty and is the most visible artifact of I-DISC's cross-college reach. The roster is documented in detail in Section 6.2. There is no public application or fee structure for membership; affiliation is acknowledged through inclusion on the I-DISC website rather than through formal joint appointments.

6.2 People

Héctor Muñoz-Avila — Director

Muñoz-Avila returned to Lehigh in summer 2025 after a tour as Program Director for Information Integration and Informatics (III) at the National Science Foundation, and was appointed Director of I-DISC effective with that return. He is a Professor of Computer Science and Engineering in the Rossin College and was one of the two founding co-directors of I-DISC alongside Katya Scheinberg. The appointment was announced as part of a broader leadership refresh across Lehigh's interdisciplinary endeavors that also named Alberto Lamadrid (College of Business and Economics, with a Kane Faculty Fellowship) as Director of I-CPIE and Kallie (Ziltz) Pearl (CSE Teaching Assistant Professor) as co-Director of the IDEAS honors program. DeWeerth's announcement of the leadership changes thanked the outgoing leaders — including Larry Snyder (I-DISC), William A. Best (I-CPIE founding leadership reference), Kate Arrington (I-DISC Associate Director), and Shaline Kishore (I-CPIE) — for their contributions.

Parv Venkitasubramaniam — Associate Director

Venkitasubramaniam is a Professor in the Department of Electrical and Computer Engineering. His association with I-DISC dates to its founding faculty council in 2017. As Associate Director, he is one of two named operational deputies to Muñoz-Avila on the I-DISC leadership page.

Mooi Choo Chuah — Associate Director

Chuah is a Professor in the Department of Computer Science and Engineering and serves as the second Associate Director of I-DISC.

Sarah Wing — I-DISC Administrative Specialist

Wing handles administrative operations for I-DISC remotely (srw208@lehigh.edu).

Kevin Major — Research Engagement Officer (IRIs)

Major serves as Research Engagement Officer across all three Lehigh Interdisciplinary Research Institutes and is the operational bridge between I-DISC, I-CPIE, and IFMD on research support matters.

Larry Snyder — Outgoing Director

Snyder, Professor in the Department of Industrial and Systems Engineering, served as Director of I-DISC from September 2020 until the August 2025 transition to Muñoz-Avila. He had previously served as Co-Director. Snyder remains an active I-DISC affiliate; he is the creator of the Burrito Optimization Game, a Gurobi-collaborative educational tool for optimization courses.

Founding Co-Directors

Katya Scheinberg and Héctor Muñoz-Avila were the founding co-directors when I-DISC formally launched in 2018. Scheinberg, who held the Harvey E. Wagner Endowed Chair in ISE, departed Lehigh in July 2019 to join Cornell University's School of Operations Research and Information Engineering, and in July 2024 moved to Georgia Tech's H. Milton Stewart School of Industrial and Systems Engineering as the Coca-Cola Foundation Chair and Professor. Muñoz-Avila continued in the director role and across subsequent years the directorship passed to Larry Snyder (ISE) and then back to Muñoz-Avila on his return from NSF in summer 2025.

Faculty Roster (Selected)

The full I-DISC faculty roster is published on the institute's website and crosses all five Lehigh colleges. A representative selection drawn from the public roster, organized by college affiliation:

P.C. Rossin College of Engineering and Applied Science. Juan Aceros (Bioengineering), Yevgeny Berdichevsky (Bioengineering), Aparna Bharati (CSE), Subhrajit Bhattacharya (Mechanical Engineering and Mechanics), Rick Blum (ECE), Paolo Bocchini (Civil and Environmental Engineering), Brian Y. Chen (CSE), Frank E. Curtis (ISE), Brian Davison (CSE, Department Chair), Ebru Demir (Mechanical Engineering and Mechanics), Dominic DiFranzo (CSE), Panayiotis Diplas (CEE), Lifang He (CSE), Jeffrey Heflin (CSE), Wonpil Im (Bioengineering), Anand Jagota

(Bioengineering / Chemical and Biomolecular Engineering, also Vice Provost for Research), Himanshu Jain (Materials Science and Engineering), Parisa Khodabakhshi (Mechanical Engineering and Mechanics), Shalinee Kishore (ECE, Iacocca Chair), Hank Korth (CSE), Mayuresh Kothare (Chemical and Biomolecular Engineering, Department Chair), Alparslan Oztekin (Mechanical Engineering and Mechanics), Shamim N. Pakzad (CEE), Roberto Palmieri (CSE), and others.

College of Arts and Sciences. Kate Arrington (Psychology, former I-DISC Associate Director), Nancy Carlisle (Psychology), Wei-Min Huang (Mathematics), Almut Hupbach (Psychology), Garth Isaak (Mathematics), Haiyan Jia (Journalism and Communication, also founding member of the Generative AI Advisory Group), Michael Kramp (English), Pdraig O'Seaghdha (Psychology), and Dominic Packer (Psychology, also Vice Provost for Educational Innovation and Assessment).

College of Business. Kofi Arhin (Decision and Technology Analytics).

College of Health. Rui Hua (Biostatistics and Health Data Science), John Hughes (Statistician and Computer Scientist).

College of Education. Kathryn Burke (Education and Human Services), Zilong Pan (Education and Human Services, Teaching Learning and Technology Program, also Lehigh AI Future Maker grant co-organizer).

The roster as published is longer than this selection; the names listed here are the faculty whose AI-related work surfaces elsewhere in the inventory through teaching, governance, or external grant activity.

6.3 Teaching & Curriculum

I-DISC is a research institute rather than a degree-granting unit and does not own its own curriculum. Its educational footprint runs through three channels.

Faculty Course Development with I-DISC Resources

Faculty I-DISC members teach AI, machine learning, optimization, data science, and computation-related courses in their home departments (predominantly CSE, ISE, ECE, and Mathematics in Engineering and CAS). The I-DISC Fellows program supports faculty in developing course materials and educational tools. Separately, Larry Snyder's Burrito Optimization Game — a tool that originated from collaboration with the optimization software company Gurobi — is being formally evaluated for classroom effectiveness in introductory optimization courses.

LTS Research Computing Educational Use

The Hawk HPC cluster supports six courses per year with traditional HPC and Jupyter Notebooks delivered through the Open OnDemand web portal. These courses are typically taught by I-DISC faculty in CSE, ISE, Bioengineering, and Materials Science. The HPC infrastructure is operated by LTS Research Computing (Unit 8) but the educational use cases are predominantly I-DISC faculty courses.

Workshops and Visiting-Speaker Series

I-DISC's NSF TRIPODS-X workshop series in 2018-2019 was structured as an educational outreach program as well as a research convening — graduate students and postdocs were primary audiences alongside faculty. The series is documented in Section 6.6 as event programming.

6.4 Tools & Technology

I-DISC does not own or operate the central AI tools deployed at Lehigh (those are documented in Unit 8). Its tool footprint is the provisioning of research-grade compute, fellows-as-a-service, and external funding intelligence.

Sol and Hawk High-Performance Computing Clusters

The Sol and Hawk clusters operated by LTS Research Computing are the compute backbone for I-DISC research. According to the LTS 2024-25 Annual Report, the two clusters delivered 27 million core hours during the year. Hawk delivered 1.8 million core hours to Lehigh researchers and contributed an additional 3.5 million core hours to the Open Science Grid. Faculty condo investors who helped build Sol consumed 22 million core hours. More than 50 research groups and courses with 450 unique students and faculty used HPC during the year. The clusters serve all I-DISC faculty for AI/ML workloads in addition to their broader scientific computing user base. GPU node expansions on both clusters in recent years have specifically supported large-scale deep learning. Operationally these resources are documented in Unit 8; functionally they are I-DISC's primary compute platform.

I-DISC Fellows Program (Tools-as-a-Service)

I-DISC's most distinctive operational tool is its Fellows program, which functions as a research support service rather than a software platform. The program is documented under Section 6.5 (Research) below because the Fellow projects themselves are the substantive research output.

External Funding Intelligence

I-DISC publishes a Funding Announcements page that surfaces external grant opportunities relevant to data, AI, and computation research. Listed opportunities have included NSF FAIROS (Findable Accessible Interoperable Reusable Open Science), the NSF National AI Research Resource (NAIRR) Pilot, NSF Cybersecurity Innovation for Cyberinfrastructure (CICI), NSF Accelerating Computing-Enabled Scientific Discovery (ACED), DOE Advancements in Artificial Intelligence for Science (with funding ranging from \$100K to \$350K per year for three years and up to \$2M per year for projects collaborating with DOE labs), NEH AI funding for digital humanities scholarship (up to \$750K total over three years), and the NSF AI for Mathematical Reasoning program (anticipated funding \$500K to \$1.2M per award for up to three years). I-DISC's posting and curation of these announcements is one of the institute's standing services to its faculty membership.

6.5 Research & Scholarship

The I-DISC Fellows Program

I-DISC launched the Fellows program in January 2021. Fellows are advanced doctoral students with expertise in programming, computation, data science, machine learning, or social-science methods. The program provides faculty with up to four weeks of fellow effort at ten hours per week. Faculty do not need to advertise for or interview candidates. As of spring 2024, the program was offered at no cost to participating faculty.

Documented Fellow projects span the disciplinary breadth of I-DISC's research membership:

- **Daniel Zane (Marketing, College of Business)** — *Enjoyment and Willingness-to-Pay: Campus Field Study*. Fellow assistance with feasibility analysis for a field study at the Bethlehem Farmers Market on campus.
- **Barbara Malt (Psychology, CAS)** — *What Does it Take to Love a Bug? The Role of Causal Knowledge in Caring*. Sentiment analysis on insect-related terms in newspapers, books, and films, including web scraping and data management for a research corpus.
- **Mary Anne Madeira (International Relations, CAS)** — *International Trade Flows*. Collection and post-processing of large World Bank trade datasets, with the fellow training the PI on relevant data science concepts.
- **Yaling Liu (Mechanical Engineering and Mechanics / Bioengineering)** — *Development of a Cloud-based Software for Hemolysis Prediction*. Acceleration of machine learning inference, virtual environment design for hardware setup flexibility, and image segmentation logic for computational software predicting shear-induced red blood cell damage in blood-wetting medical devices.
- **Paolo Bocchini (Civil and Environmental Engineering)** — *Social, Demographic, and Environmental Influence on Ebola Spillover*. Use of social, demographic, and behavioral data to estimate likelihood of practices leading to Ebola spillover via decision tree validation.
- **Medical X-ray deep learning project** — Use of machine learning to score radiographic images for fracture identification in tibia and fibula X-rays. PI not named on the public projects page.

The recurring testimonial pattern in fellow project documentation — typified by one PI saying a fellow "was able to complete within hours what it would have taken me WEEKS to complete, if I was able to do it at all" — frames the program as a force multiplier for faculty without strong programming or ML backgrounds rather than as a replacement for technical PIs.

NSF TRIPODS-X Grant and Workshop Series

In late 2018, NSF announced support for I-DISC under the TRIPODS+X program, part of a broader \$8.5 million package supporting 19 collaborative projects involving 23 U.S. universities. Two of those NSF grants were awarded to Lehigh. The TRIPODS-X funding supported I-DISC's workshop series titled *The DISC Institute Workshop Series on Machine Learning + X*, designed to bridge the gap between ML methodology developers and domain practitioners.

The first workshop, *Foundational and Applied Data Science for Molecular and Material Science and Engineering*, was held May 22-24, 2019, in Iacocca Hall on Lehigh's Mountaintop Campus. It was organized by Srinivas Rangarajan, Jeetain Mittal, and Joshua Agar (all then Lehigh Engineering) with Payel Das of IBM T.J. Watson Research Center. Speakers included Alex Dunn (Lawrence Berkeley National Lab postdoc) on software tools for accelerating materials discovery with machine learning. The workshop brought together computer scientists, applied mathematicians, materials scientists, chemists, biologists, and chemical, industrial, and bioengineers. A second workshop, scheduled for fall 2019, focused on machine learning for robotics, automated control, and dynamical systems. Subsequent workshops in the series addressed chemical processes, supply chain optimization, and cognitive neuroscience.

Faculty Publications and Grant Activity

I-DISC's faculty membership generates substantial AI and ML scholarship across departments. The CSE department's AI and Robotics research group documents research funded by ONR, NSF, NRL, AFRL, DARPA, and industry partners including Qualcomm and Ford on computer vision, machine learning, deep reinforcement learning, planning and learning, resilient robot swarms, robotic manipulation, large-scale knowledge graphs, and semantic web research. Specific recent (2024-2026) publications by I-DISC faculty are not aggregated on a single I-DISC page; they are surfaced through individual faculty pages and home-department news. The Engineering, CAS, and Health unit dossiers (Units 1, 2, and 4) will document specific recent grants, publications, and projects in greater depth.

6.6 Events & Programming

TRIPODS-X Workshop Series

Documented in Section 6.5. The series ran from 2019 onward as the institute's primary public-facing convening venue during its first phase, with workshops on materials science, robotics, supply chain optimization, and cognitive neuroscience. Subsequent workshops and seminar series details from 2022-2026 are not consolidated on the I-DISC events page in current public sources.

Visiting Speaker and Seminar Programming

The I-DISC website references hosting events throughout the year to foster collaboration and education, and providing administrative, planning, and logistical support for larger events such as conferences and workshops. Specific 2024-2026 seminar programming is not consolidated in available public sources; individual events surface through department news, the Lehigh events calendar, and the LTS event programming.

Cross-Institutional Engagement

I-DISC faculty participate in the AI@Lehigh Summit (covered in Unit 7), the College of Business Year of AI@Work (Unit 3), the College of Health Innovation and Technology cluster (Unit 4), and the Engineering AI and Robotics research group (Unit 1). The institute is positioned as the connective tissue across these unit-level activities rather than as the primary host for AI events at Lehigh.

Gaps and Observations

I-DISC's public-facing documentation is uneven in coverage and recency. The founding history, the leadership succession, and the Fellows program are well-documented through institutional news releases and the I-DISC website. The 2024-2026 research output, recent grants, current funded projects, and post-pandemic event programming are substantially less visible in public sources. This is partly because I-DISC's research outputs are credited to faculty and home departments rather than to the institute as a publication entity, and partly because the I-DISC website's news and events pages are less frequently updated than the LTS news feed.

The published faculty roster on the I-DISC website is substantial — well over 50 named affiliates — but does not include departmental sub-affiliations beyond the college level for many entries, and does not distinguish between active research collaborators and nominally affiliated faculty. A unit-level audit of which faculty are actively producing AI/ML research under the I-DISC umbrella versus which are listed in name only is not possible from public sources alone.

The transition from Larry Snyder's directorship to Héctor Muñoz-Avila's directorship in August 2025 is documented but the post-transition strategic direction of I-DISC has not yet been articulated in a public statement, mission refresh, or new strategic plan as of the snapshot date. Whether Muñoz-Avila will refocus the institute's priorities, expand or contract the Fellows program, or pursue new external funding tracks is not stated in available sources.

The relationship between I-DISC and the Provost-cluster AI Readiness initiative (Unit 7) is not made explicit. I-DISC is the institutional research home for AI/ML at Lehigh, while the AI Readiness initiative is the institutional teaching and policy framework. Multiple Provost cluster figures (Packer, Jagota, Davison) are also I-DISC faculty members, suggesting the two are integrated in practice, but neither I-DISC nor the Provost cluster has published a coordination document articulating the relationship.

Katya Scheinberg's Lehigh affiliation history is now resolved (see Founding Co-Directors section). She held the Wagner Chair at ISE through July 2019, moved to Cornell ORIE, and joined Georgia Tech ISyE in July 2024 as the Coca-Cola Foundation Chair and Professor. Her foundational role co-founding I-DISC, leading the NSF TRIPODS Award #1740796, and co-founding the OPTML group is institutional history.

The April 2018 Provost announcement of the three IRIs (I-DISC, I-CPIE, and IFMD) is referenced in the I-DISC institutional history but the specific announcement document or news release is not directly cited from a Lehigh-controlled URL; the chain runs through the I-DISC About page rather than a primary Provost source.

The two NSF grants Lehigh received under the 2018 TRIPODS-X round are documented in news coverage but the NSF Award IDs and dollar amounts are not included in available Lehigh-side sources. NSF Award Search would resolve these and is a clean target for the deepening pass.

Cross-References

- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** Administrative home of I-DISC; the largest single concentration of I-DISC faculty; CSE, ISE, ECE, BioE, ME, CEE, MSE, and ChBE all contribute affiliated faculty.
- **College of Arts and Sciences (Unit 2):** Psychology (Arrington, Carlisle, Hupbach, O'Seaghdha, Packer), Mathematics (Huang, Isaak), Journalism and Communication (Jia), and English (Kramp) contribute to the I-DISC roster.
- **College of Business (Unit 3):** Decision and Technology Analytics (Arhin) and Marketing (Wang as a founding council member) contribute to I-DISC.
- **College of Health (Unit 4):** Biostatistics and Health Data Science (Hua, Hughes) is the College of Health's I-DISC contribution.
- **College of Education (Unit 5):** Education and Human Services (Burke, Pan) is the College of Education's I-DISC contribution.
- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** Provost cluster figures (Packer, Jagota) are I-DISC faculty; the AI Readiness initiative is the institutional teaching counterpart to I-DISC's research role.
- **Library and Technology Services cluster (Unit 8):** Sol and Hawk HPC clusters operated by LTS Research Computing are I-DISC's primary compute infrastructure; LTS staff support I-DISC research workflows.
- **Office of Research (Unit 9):** Vice Provost for Research Anand Jagota is an I-DISC faculty member; research compliance and grant administration for I-DISC projects flow through the Office of Research.
- **Part I, Section VI (Research Governance & Ethics):** I-DISC's relationship to research-side AI governance.
- **Part I, Section VIII (Infrastructure & Strategic Investment Signals):** I-DISC as one of three Lehigh IRIs; the IRI structure as an institutional investment commitment.

Sources

I-DISC — main institute homepage with mission and current faculty news

<https://idisc.lehigh.edu/>

I-DISC — *I-DISC Fellow Projects* page documenting funded faculty collaborations across colleges

<https://idisc.lehigh.edu/opportunities-resources/faculty/i-disc-fellows/i-disc-fellow-projects>

Lehigh University News — *Turning to Machine Learning for Molecular, Materials Research*, NSF TRIPODS-X grant background and 2018 funding context

<https://news.lehigh.edu/turning-to-machine-learning-for-molecular-materials-research>

I-DISC — *About* page documenting institutional history, the founding faculty council, and the 2018 launch; the current leadership listing (director, associate directors, administrative specialist, and IRI research engagement officer); and the institute services description including event hosting, faculty fellow services, grant writing support, and DEI commitments

<https://idisc.lehigh.edu/about>

Georgia Tech ISyE — *ISyE Welcomes Katya Scheinberg, Newly Elected MOS Chair* (July 2024) — documents her move from Cornell ORIE to Georgia Tech as Coca-Cola Foundation Chair, prior Wagner Chair tenure at Lehigh ISE through July 2019, and I-DISC co-directorship

<https://www.isye.gatech.edu/news/isye-welcomes-katya-scheinberg-newly-elected-mos-chair>

Rossin College — *Leadership updates: I-DISC, I-CPIE, IDEAS* (August 2025) — Muñoz-Avila return and director appointment, parallel I-CPIE and IDEAS leadership changes, and thanks to outgoing leaders including Larry Snyder (I-DISC), Kate Arrington (I-DISC Associate Director), and Shaline Kishore (I-CPIE), referenced for both the 2025 transition and historical I-DISC leadership context

<https://engineering.lehigh.edu/news/article/leadership-updates-i-disc-i-cpie-ideas>

I-DISC — *I-DISC Faculty Members* page with cross-college roster and department affiliations

<https://idisc.lehigh.edu/i-disc-faculty-members>

LTS — *2024-2025 Annual Report*, HPC utilization figures including 27 million core hours and 50+ research groups

<https://lts.lehigh.edu/lts-2024-2025-annual-report>

I-DISC — *Funding Announcements* page tracking NSF, DOE, NEH, and other federal AI and computation funding opportunities

<https://idisc.lehigh.edu/funding-announcements>

I-DISC — *I-DISC Fellow Services* page describing the program model, faculty eligibility, and no-cost terms

<https://idisc.lehigh.edu/resources/fellow-services>

Rossin College — *The rise of machine learning*, May 2019 NSF TRIPODS-X workshop coverage with workshop title, organizers, and Scheinberg quote

<https://engineering.lehigh.edu/news/article/rise-machine-learning>

CSE Department — *AI and Robotics* research area page, federal and industry funding sources for the AI/Robotics research group

<https://engineering.lehigh.edu/cse/departmental-research-areas/ai-and-robotics>

7.

Office of the Provost — AI Readiness, CITL, and OEIA

KEY SIGNALS

Lehigh's AI governance is centralized in the Provost's office to a degree uncommon among research universities of its size. A single Generative AI Advisory Group, established by Provost Nathan Urban in January 2025 and reporting jointly to him and the Vice President for Finance and Administration, produced a public report and recommendations within four months and seeded a permanent operational apparatus that now spans the Center for Innovation in Teaching and Learning, the Office of Educational Innovation and Assessment, and the AI Readiness initiative. The principles governing AI use at Lehigh have been published, opened for community comment, and are scheduled for replacement by an updated draft circulating in spring 2026 — making the governance documents a moving target rather than a static artifact.

The Office of the Provost and Senior Vice President for Academic Affairs is led by Nathan N. Urban. The Provost's AI work runs through three integrated arms: the Generative AI Advisory Group (the strategy body), the Office of Educational Innovation and Assessment under Vice Provost Dominic Packer (the assessment and pedagogy arm), and the Center for Innovation in Teaching and Learning under Director Judd Hark (the faculty support arm, organizationally housed in Library and Technology Services but operationally interlocked with the Provost cluster). A central public-facing portal at ai.lehigh.edu consolidates principles, tools, projects, events, and policies under one URL.

7.1 Governance & Policy

The Generative AI Advisory Group

Provost Urban established the Generative AI Advisory Group on January 20, 2025. The group was charged to advise the Provost and Chris Cook (then Interim Vice President for Finance and Administration, since confirmed in the role) on three questions: where Lehigh has the greatest opportunity to employ generative AI to improve educational, research, and administrative goals; how to better support faculty and staff in using generative AI effectively and ethically; and where Lehigh has gaps in policy regarding appropriate AI use.

The group's founding membership was: Bill Gaudelli, Senior Vice Provost for Educational Innovation and Assessment and Dean on Assignment (8th Dean of the College of Education, on dean leave through approximately June 2026 while Robin Hojnoski serves as Acting Dean); Haiyan Jia, Associate Professor in the Department of Journalism and Communication, Cognitive Science Program, and Digital Media Lab (College of Arts and Sciences); Ilena Key, Chief Technology Officer (now Associate

Vice President for Information Technology Services and CIO); Luis Nunes Vicente, Chair of Industrial and Systems Engineering; Dan Warner, Vice Provost for Admissions and Financial Aid; and Greg Reihman, then Vice Provost for Library and Technology Services (now Vice Provost for Arts and Libraries), who served as **Chair of the Generative AI Advisory Group** as documented in the May 9, 2025 final report.

The group's final report, dated May 9, 2025, runs to a public PDF posted on the Provost's institutional reports page. Its recommendations include an explicit "AI-readiness promise" to Lehigh students, surveys of faculty and staff usage, expanded support for faculty experimentation, and the development of researcher-specific guidance. The report's framing places ethics, AI literacy regarding misinformation, awareness of biases and environmental impact, and human relationships at the front and center of any expansion in AI use, and explicitly endorses purposeful non-use as a legitimate choice.

After the report's release, the Advisory Group transitioned into a permanent steering function that organizes the annual AI@Lehigh Summit and oversees the AI Readiness initiative.

Guiding Principles for AI at Lehigh

Two distinct documents currently exist at ai.lehigh.edu, reflecting an in-progress evolution of Lehigh's principles.

The original principles, dated January 14, 2026, are titled *Principles, Policies and Expectations for AI at Lehigh* and consist of five guideposts: Foster Innovation and Exploration; Uphold Academic Integrity and Policy Requirements; Promote Ethical and Responsible Use; Empower Our Community through Education and Dialogue; and Cultivate Collaboration and Community.

A revised draft, titled *Guiding Principles for Artificial Intelligence*, was published in early 2026 and opened for community comment via an SSO-authenticated, anonymized survey. The comment period closed on February 28, 2026. The revised principles reorganize the framework around five new themes: aligning AI adoption with mission and the *A Lehigh for Everyone* strategic priority; keeping people and human relationships at the center; educating the community to understand, use, and evaluate AI; innovating with AI where it improves learning and work; and using AI lawfully, ethically, and securely. The revised draft explicitly states that the principles are not a fixed policy or one-size-fits-all mandate but shared guideposts intended to support local, discipline-appropriate conversations while reducing ambiguity. A note on the original page confirms that, in spring 2026, leadership will circulate an updated draft for discussion, finalization, and approval to replace the existing principles.

As of April 8, 2026, the post-comment-period version has not been formally adopted in available sources. Both documents remain live on ai.lehigh.edu.

Data Classification and Acceptable Use

AI tool usage at Lehigh is governed by the existing Data Classification Framework administered by the Office of Institutional Data. Class I (Public) and certain Class II (Internal) data may be used with standard generative AI tools. Class III (Restricted) and Class IV (Critical) data are prohibited from generative AI tools unless a specific Business Associate Agreement is in place with the vendor. These

restrictions are tied to Lehigh's Acceptable Use of Computing Systems Policy, which any AI use at Lehigh must satisfy regardless of the AI-specific principles.

The Office of Information Security, led by Chief Information Security Officer Eric Zematis, is the reporting destination for any potential breach of data protection or confidentiality involving generative AI tools or otherwise.

Syllabus Posture

Lehigh has not adopted a uniform institutional policy on student AI use in courses. The Provost's *Teaching at Lehigh* guidance explicitly states that Lehigh does not have a uniform policy about the allowable use of AI in courses and instructs instructors to develop their own policies and to be transparent about them in their syllabi. CITL provides faculty with three model syllabus options corresponding to Full Integration, Limited or Assisted Use with citation, and Prohibited Use, but these are templates, not mandates.

7.2 People

Nathan N. Urban — Provost and Senior Vice President for Academic Affairs

Urban is the strategic owner of the AI Readiness initiative and the official who chartered the Generative AI Advisory Group. He has framed Lehigh's posture in public communications as building "applied fluency with AI, not model building," aligned to employer expectations for graduates. Urban delivered opening remarks at the 2nd Annual AI@Lehigh Summit on January 13, 2026, and at the November 2025 Town Hall articulated AI fluency (rather than AI engineering) as the workforce-relevant skill for Lehigh graduates.

Dominic Packer — Vice Provost for Educational Innovation and Assessment

Packer is the operational lead for AI in teaching and learning. He also holds the title of Associate Vice Provost for Research and serves as Senior Advisor to the Vice Provost for Research, giving him a foot in both the educational and research arms of the AI Readiness initiative. He is a Professor of Psychology in the College of Arts and Sciences and co-author of *The Power of Us* with Jay Van Bavel. Packer presented the draft Guiding Principles at the November 10, 2025 Town Hall, framing them as "high-level guideposts" rather than rules. His "semester zero" framing — the idea that the current academic year is an experimental period in which Lehigh is mapping where AI is being used and where it is improving learning — recurs across multiple Lehigh communications and is the public-facing posture of the assessment effort. Packer leads the Office of Educational Innovation and Assessment.

Greg Reihman — Vice Provost for Arts and Libraries

Reihman was Vice Provost for Library and Technology Services until the April 2026 reorganization that split Arts and Libraries from ITS. He remains the operational counterpart to Packer in the AI Readiness initiative and was the lead organizer of the inaugural AI@Lehigh Summit in January 2025. He is also identified as the Lead for the *Organization of the Future* strategic initiative. Reihman holds a PhD in Philosophy from the University of Texas at Austin and teaches courses in the Philosophy

Department in addition to his vice provost role. He was the founding Director of CITL from 2013 to 2022. Reihman is documented in the AI Tutor Project as one of the two contact points for faculty interested in participating, alongside Packer.

Judd Hark — Director, Center for Innovation in Teaching and Learning

Hark was named Interim Director of CITL effective January 1, 2025, on the retirement of Peggy Kane after 25 years of service, and was appointed permanent Director in December 2025 following a national search. He began his Lehigh career 21 years ago as the sole instructional technologist supporting the College of Arts and Sciences, and previously served as Assistant Director of CITL with leadership over Learning Space Technology and Design, Distance Education, Digital Media, and the LET's Lab. Under Hark's leadership, CITL coordinates closely with the Office of Educational Innovation and Assessment, the Office of Graduate Education and Life, the Deputy Provost for Undergraduate Education, Faculty Senate Leadership, and the five college Deans' Offices on AI-related faculty support.

Jeffrey Olimpo — Director, Office of Educational Innovation and Assessment

Olimpo runs the day-to-day operations of OEIA under Packer and oversees the SMART (Strategic Methods in AI-Responsive Teaching) program. He has stated that approximately 15 to 20 faculty members regularly attend in-person SMART sessions, and that the program is multi-tiered with the first level focused on building awareness of AI tools and applications.

Anand Jagota — Vice Provost for Research

Jagota holds the central research-side governance role to which Packer serves as Senior Advisor. Jagota is also a member of I-DISC and maintains his faculty appointment in Bioengineering and Chemical & Biomolecular Engineering in the Rossin College.

Terry-Ann Jones — Deputy Provost for Undergraduate Education

Jones is identified in the CITL leadership coordination chain as one of the collaborators on AI-related faculty support, though her specific AI-related work is not separately documented in available sources.

7.3 Teaching & Curriculum

The AI Tutor Project

The AI Tutor Project, identified on ai.lehigh.edu as a Provost-driven initiative, develops course-specific AI tutors — chatbots trained on individual course materials including syllabi, slides, and assigned readings. As of January 2026, approximately 35 Lehigh faculty are actively developing AI tutors under the program. Packer has described the tutors as available "for the first line of questions for students" working through problem sets outside the textbook or studying for tests and exams, and notes that students have reported finding them helpful in specific instances "though they are not without their glitches." Faculty interested in participating contact Reihman or Packer directly.

The Generative Experience Module (GEM) Framework

GEM is the broader Lehigh framework for building custom generative AI assistants. Course-specific AI tutors are one class of GEM application; work assistants for repetitive administrative tasks are another. The framework is documented and supported through CITL.

SMART — Strategic Methods in AI-Responsive Teaching

SMART is a community of practice jointly run by OEIA and CITL for faculty and staff exploring AI tools and methodologies in teaching, research, and work. It launched on September 5, 2025, and combines self-paced online modules with in-person sessions covering topics including effective prompting, AI-inclusive instructional strategies, and AI-resistant assessment design. The program is multi-tiered with a first level focused on awareness-building.

CITL Faculty Guidance and Three Syllabus Options

CITL maintains a faculty guidance page on generative AI in the classroom that recommends instructors directly address generative AI in syllabi, assignment prompts, and course materials, and provides three model syllabus statements: full integration, limited or assisted use with citation, and prohibited use. The page also documents the institutional history of Lehigh's Turnitin AI detection decision: instructors had access to Turnitin's AI detection tool during spring and fall 2023 as part of the standard license, but when Turnitin moved AI detection to a separate license model in spring 2024, LTS evaluated the AI content checker, expressed concern about false positives, and decided not to pursue the add-on. Lehigh has continued to opt out of Turnitin's AI detection through the 2025-26 academic year.

CCPD Employer AI Fluency Study and AI Ready Pathways

In summer 2025, the Center for Career & Professional Development (CCPD) conducted qualitative outreach with fifteen employers across a range of industries to document expectations for AI literacy among entry-level hires. The outreach ran over a three-week period and was designed around three objectives: identify how employers across industries are currently using AI in their workplaces; determine the specific skills and mindsets employers seek in new graduates; and gather recommendations on how Lehigh can better prepare students for AI-enhanced work environments. Lori Kennedy, senior director of CCPD, led the effort.

CCPD published the findings as a six-page public report, *Employer Expectations for AI Fluency: Strategic Insights from Lehigh's Employer Partners*, organized around five main focus areas: AI use is broad and growing across industries; AI literacy is a baseline expectation, not a bonus; human judgment and communication remain critical; ethical use of AI is a major hiring signal; and AI readiness can be demonstrated without a technical background. The report's question-level findings identify prompt engineering as one of the most critical and differentiating skills, name ChatGPT, Claude, Gemini, Perplexity, and Copilot as the generative tools employers expect familiarity with, and record an employer recommendation that Lehigh offer one-credit exploratory AI courses for first- and second-year students across majors. The report is also linked from CCPD's employer-facing Lehigh Talent page under the name "AI Fluency Insights Report."

Sources differ on the scale of the outreach. The report documents fifteen employer conversations; university news coverage, published as "Becoming AI Ready" and carried in the Fall/Winter 2025 Alumni Bulletin, characterizes the effort as a survey of dozens of employers, many of them Fortune 100 or 500 companies. In that coverage, Kennedy states that AI is not necessarily replacing jobs but reshaping positions, that AI has become a baseline expectation rather than a bonus skill, and that employers want graduates who understand bias, privacy concerns, and data sensitivities and can articulate when to use AI and when not to. One employer reported expecting new hires to be using AI tools by their third day on the job.

The study's findings directly informed the design of AI Ready, a CCPD learning initiative delivering scaffolded Beginner, Intermediate, and Advanced learning pathways on LinkedIn Learning, intended to complement classroom learning with practical applications of AI concepts across disciplines. The pathways require account activation and are referenced from ai.lehigh.edu.

7.4 Tools & Technology

This section documents the Provost-side tool footprint. Tools that are operationally owned by Library and Technology Services (the LLM Gateway, sandbox, Google integration) are documented in greater depth in Unit 8. The Provost's contribution is the strategic posture and the funding alignment.

Lehigh LLM Gateway

The LibreChat-based LLM Gateway provides Lehigh users with access to OpenAI, Anthropic Claude, Perplexity, and Google Gemini models within a single interface. Free access for all Lehigh faculty and graduate students was announced in December 2025 as part of the AI Readiness initiative, funded in significant part by a gift from the H.S. Lee Family Foundation (see Section 7.5).

Google AI for Education Accelerator

Lehigh joined the first cohort of Google's AI for Education Accelerator in September 2025, gaining no-cost access for students to Google's Gemini Pro, NotebookLM, Gems, AI Studio, and other Google-developed AI tools. Reihman spearheaded the partnership; Packer described it as extending Lehigh's leadership in educational innovation. The accelerator is part of Google's broader \$1 billion commitment to higher education and workforce readiness in the United States. The partnership reinforces what Lehigh has called its "Gemini-first AI strategy" — Gemini is the recommended starting tool for users new to generative AI, with the LLM Gateway available for users who need access to other model families.

Recommended and Approved Tools

Tools recommended for Lehigh users through the ai.lehigh.edu portal include: Google Gemini (and the broader Google Workspace AI suite via Lehigh accounts); the LLM Gateway (LibreChat); NotebookLM; DataCamp DataLab for AI-powered data analysis training; Keenious (AI-powered scholarly article discovery); and Adobe Firefly AI (available in the LTS Digital Media Studio). LTS maintains a GenAI Software Registry for vendors and tools already in use across campus.

7.5 Research & Scholarship

Office of Research GenAI Guidance

The Office of Research, under Vice Provost Anand Jagota, has issued specific guidance on generative AI and human subjects research. The guidance addresses IRB considerations for AI-assisted study design, data collection, and analysis. This sits in Unit 9 (Office of Research) for fuller treatment but originates from the joint Provost/Research office structure that Packer bridges.

H.S. Lee Family Foundation Gift

The H.S. Lee Family Foundation, in collaboration with Hyo Sang Lee MS'76 PhD'80, made a gift in late 2025 to provide all Lehigh faculty and graduate students with access to advanced GenAI tools from Google, Anthropic, and OpenAI. The gift funds both the LLM Gateway expansion and an AI prize incentivizing graduate students to design breakthrough AI applications. The named purpose of the gift is to propel Lehigh's AI Readiness initiative forward and to position Lehigh as a recognized leader in AI by supporting effective and ethical use of these tools by students.

Faculty AI Tutor Development as Scholarship

The 35-faculty cohort developing AI tutors under the AI Tutor Project is structured as an experimental, assessed pedagogical effort. Packer has stated that next semester (spring 2026 from the date of the announcement) he plans to ramp up assessment in a more formal way, surveying faculty and students to identify where they find AI useful and where it falls short. No published assessment results are yet available in public sources.

Lehigh AI Future Maker Strategy Grant (2024)

A separate Future Maker Strategy Grant from the Office of Strategic Planning and Initiatives and CITL funded the *Lehigh AI* digital hub, which solicited proposals from across the university to increase AI literacy and explore applications of AI in learning, teaching, research, and community engagement. Of 61 proposals submitted in fall 2024, 20 were funded with \$300 awards each. The 26 contributors broke down as 15 faculty, 4 staff, 4 undergraduates, and 3 graduate students; college affiliations were 13 College of Arts and Sciences, 3 College of Engineering, 3 College of Business, 3 College of Education, 2 College of Health, and 2 Library and Technology Services. The Lehigh AI program is co-led by Justin Greenlee (CITL/LTS), Haiyan Jia (CAS Journalism and Communication), Zilong Pan (College of Education, Teaching Learning and Technology Program), and Greg Surovcik (College of Business, Decision and Technology Analytics). The Lehigh AI program is distinct from the October 2025 Future Maker Grants for AI Enhancement, which targeted operational AI applications in administrative units; the two are documented in Part I.

7.6 Events & Programming

AI@Lehigh Summit (Annual)

The inaugural AI@Lehigh Summit was held January 9, 2025, at the Wood Dining Room in Iacocca Hall, drawing more than 150 faculty and staff. Sponsored by LTS with support from the Offices of

the Provost, Strategic Planning and Initiatives, and Finance and Administration, the program included opening remarks from Reihman, two panels (one on AI in administrative work, one on AI in teaching, learning, and research), and Provost Urban's announcement of the formation of the Generative AI Advisory Group.

The 2nd Annual AI@Lehigh Summit was held January 13, 2026, at the Mountaintop Campus. The program included opening remarks from Packer and Reihman; a panel discussion on *Using AI in Teaching and Learning at Lehigh* featuring Packer (chair), Haiyan Jia (CAS Journalism and Communication), Steve McIntosh (Chair, Chemical and Biomolecular Engineering), Elizabeth Young (LTS Instruction and Outreach Librarian), Kayleigh O'Keeffe (Teaching Assistant Professor, Biological Sciences), Zilong Pan (Teaching, Learning and Technology Program), E.J. Rovella (Ph.D. Candidate, College of Health), and K. Sivakumar (Chair, Marketing); and closing tools and next-steps segment. The summit was sponsored by LTS with support from the Offices of the Provost, Strategic Planning and Initiatives, Educational Innovation and Assessment, and Finance and Administration. Recordings and panelist resources are available through the AI@Lehigh Summit 2026 page on the LTS website.

Town Halls

President Joseph J. Helble addressed AI in the November 10, 2025 Town Hall, stating that AI should free more time for "the deeply human parts of our work" and emphasizing thoughtful adoption. Provost Urban discussed AI fluency as the workforce-relevant skill for graduates. Vice Provost Packer closed the AI segment of the Town Hall with an overview of the draft AI principles, framing them as "high-level guideposts" rather than rules.

Inclusive Excellence in Teaching Workshop

An all-day workshop held January 15, 2026 at Mountaintop Campus, organized by Packer in his role as senior advisor to the Vice Provost for Research, featured panels of business leaders, faculty, and students on AI in higher education and the workplace. Provost Urban led a panel of senior corporate executives — many Lehigh alumni — from companies including Johnson & Johnson, Lumeris, J.P. Morgan Asset Management, KPMG, and Bloomberg, focused on AI use at their companies and advice for professors.

Touchstone Theatre — *Alice in Informationland*

On October 8, 2025, Touchstone Theatre and Lehigh Libraries hosted *Alice in Informationland* at Linderman Library, a performance exploring AI, ethics, and human-machine interaction through the lens of *Alice in Wonderland*. The associated Special Collections exhibit, *Informationland: The Past and Future of Libraries*, opened in Linderman Library following the event. This is treated more fully in Unit 8 (Library and Technology Services cluster).

CITL Symposium on Teaching and Learning

CITL has hosted annual symposia on teaching and learning, with generative AI as a recurring theme since 2023. The 2025 CITL Symposium on Teaching and Learning is referenced from ai.lehigh.edu as

a source of past AI-related event recordings. Specific 2025 program details are not surfaced in current public sources beyond the cross-reference.

Gaps and Observations

Several elements of the Provost's AI architecture remain incomplete or in transition in available public sources.

The two parallel principles documents at ai.lehigh.edu are not labeled with clear adoption dates or successor relationships. The original (1/14/26) explicitly notes that an updated draft will replace it once finalized, but as of the snapshot date the post-comment-period version of the *Guiding Principles* has not been declared the operative governance document. A reader navigating ai.lehigh.edu can find both and may not know which controls. Whether this is intentional ambiguity or transitional drift is not stated.

Bill Gaudelli's title and dual role are now resolved. Effective July 1, 2024, Provost Urban appointed Robin Hojnoski (School Psychology, previously Associate Dean of Graduate Education) as Acting Dean of the College of Education for a two-year period, freeing Gaudelli to focus on his appointment as Senior Vice Provost for Educational Innovation and Assessment, Dean on Assignment. Gaudelli retains the dean title nominally as 8th Dean of the College of Education but is not running the college day-to-day during the dean-on-assignment period. He participates in the Provost cluster and the GenAI Advisory Group in the senior vice provost capacity.

The status of the Generative AI Advisory Group as a "permanent steering committee" is referenced in the W&M Peer Benchmark and consistent with Lehigh's framing, but a public roster of the post-May-2025 steering body is not surfaced in available sources. Whether the original six members continue, have rotated, or have been augmented is not documented publicly. The faculty/staff/student survey infrastructure that Packer described as ramping up "next semester" likewise has no published results yet.

The original AI policy is referenced in a November 2025 Brown and White article as having been "announced by Provost Nathan Urban" in 2023, but the 2023 policy text is not archived under ai.lehigh.edu and the citation chain from the 2023 policy to the January 2026 *Principles, Policies and Expectations* is not made explicit in current sources.

The relationship between the AI Tutor Project's 35 faculty cohort and the Lehigh AI Future Maker grant cohort (20 funded projects, 26 contributors) is unstated. Whether these are overlapping populations, sequential cohorts, or unrelated tracks is not documented, though they appear to be distinct programs with distinct funding sources.

Cross-References

- **Library and Technology Services cluster (Unit 8):** Operational ownership of the LLM Gateway, sandbox, AI LibGuides, SMART program co-delivery, Google AI for Education Accelerator implementation, and CITL administrative housing.

- **I-DISC (Unit 6):** Cross-college research institute that provides the disciplinary depth referenced in the AI Readiness initiative; multiple Provost-cluster figures (Packer, Jagota, Reihman) interact with I-DISC faculty.
- **College of Arts and Sciences (Unit 2):** Home department of Packer (Psychology), Jia (Journalism and Communication), and the largest single share of Lehigh AI Future Maker grant recipients.
- **College of Business (Unit 3):** K. Sivakumar (Marketing Chair) served on the second AI@Lehigh Summit panel; the College's two consecutive Year of Learning AI themes (2024-25 *Generative AI in Business*; 2025-26 *AI at Work*) and the AI in Business Research Lab co-directorship structure (Rivera, Eskici, Arhin) are the most explicit college-wide AI commitment by any Lehigh college.
- **College of Health (Unit 4):** E.J. Rovella (Ph.D. candidate) served on the second AI@Lehigh Summit panel on *Using AI in Teaching and Learning at Lehigh*; the joint CSE/COH appointments (Khan, Namboodiri), the Health Data Warehouse, and Thomas McAndrew's NSF IHBEM grant anchor the College's AI infrastructure and research portfolio.
- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** Home of Vicente (founding Advisory Group member), the AI Tutor Project's engineering panelists (McIntosh, O'Keeffe), and the I-DISC faculty cluster.
- **College of Education (Unit 5):** Robin Hojnoski as Acting Dean (since July 1, 2024); Gaudelli's dean-on-assignment / Senior Vice Provost for Educational Innovation and Assessment dual role bridges the Provost cluster to the College of Education; home of the AI and Learning Analytics graduate certificate; founding GenAI Advisory Group connection through Gaudelli.
- **Office of Research (Unit 9):** Vice Provost for Research Anand Jagota; Packer holds dual VPR-side titles as Associate Vice Provost for Research and Senior Advisor to the Vice Provost for Research.
- **Part I, Section I (Institutional AI Governance Architecture):** The Generative AI Advisory Group, the AI Readiness initiative, and the principles documents anchor Part I Section I.
- **Part I, Section III (Teaching & Learning Posture):** The CCPD employer AI fluency study and the AI Ready pathways documented here are cited in Part I Section III as the employer-demand evidence base for the institutional AI-fluency posture.
- **Part I, Section V (Academic Integrity Integration):** The Turnitin AI detection opt-out and the three syllabus options originate from CITL guidance documented here.

Sources

Lehigh Office of the Provost — *Generative AI at Lehigh*, institutional reports landing page linking to the Advisory Group report and the 2025 Generative AI Faculty Survey
<https://provost.lehigh.edu/institutional-reports/generative-ai-lehigh>

Lehigh AI portal — *Principles* page hosting both the original *Principles, Policies and Expectations* (1/14/26 version, five-principle framework, with the note that a spring 2026 updated draft will replace it) and the draft *Guiding Principles for Artificial Intelligence* with comment period closing February 28, 2026

<https://ai.lehigh.edu/principles>

Lehigh AI portal — main landing page consolidating tools, principles, projects, events, and learning resources, including the AI Tutor Project description and contact instructions (Reihman/Packer) and the SMART (Strategic Methods in AI-Responsive Teaching) communities of practice description

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

Lehigh Generative AI Advisory Group Final Report (May 9, 2025) — public PDF documenting the founding date (January 20, 2025), charter questions, methodology, and recommendations including the AI-readiness promise, faculty and staff support, ethical framing, and the explicit endorsement of purposeful non-use

<https://provost.lehigh.edu/sites/provost.lehigh.edu/files/Lehigh-Gen%20AI%20Advisory%20Group%20Report%205-9-2025.pdf>

Lehigh University News — *Lehigh Rings in New Year with New Summit Exploring Generative AI* (February 2025), inaugural AI@Lehigh Summit recap including announcement of Advisory Group founding members

<https://news.lehigh.edu/lehigh-rings-in-new-year-with-new-summit-exploring-generative-ai>

Lehigh College of Education — *The Dean's Office* page documenting Robin Hojnoski's appointment as Acting Dean for a two-year period beginning July 1, 2024, and Gaudelli's focus on his Senior Vice Provost for Educational Innovation and Assessment appointment during that period

<https://ed.lehigh.edu/about/deans-office>

LTS — *Generative AI at Lehigh: Policies, Guidance, and Support* — the Data Classification Framework governing what data may be used with AI tools, the GenAI Software Registry, Eric Zematis as CISO, and reporting procedures for AI-related security incidents

<https://lts.lehigh.edu/news/generative-ai-lehigh-policies-guidance-and-support>

Lehigh Office of the Provost — *Teaching at Lehigh: Policies, Guidance, and Syllabus Statements*, explicit statement that Lehigh has no uniform policy on student AI use

<https://provost.lehigh.edu/teaching-lehigh-policies-guidance-and-syllabus-statements>

LTS — *CITL Guidance for Faculty on Generative AI in the Classroom*, three syllabus options and the Turnitin AI detection decision history

<https://lts.lehigh.edu/citl-guidance-faculty-generative-ai-classroom>

Lehigh University News — *Lehigh Advances Into Year Three of Its Strategy With a Focus on Sustaining Success* (November 2025), Town Hall coverage including Helble, Urban, and Packer remarks on AI

<https://news.lehigh.edu/lehigh-advances-into-year-three-of-its-strategy-with-a-focus-on-sustaining-success>

Lehigh Office of the Provost — Dominic Packer profile, Vice Provost for Educational Innovation and Assessment and Senior Advisor to the Vice Provost for Research

<https://provost.lehigh.edu/organization/vice-provosts/dominic-packer>

Lehigh Department of Psychology — Dominic Packer faculty page, research areas and *The Power of Us* co-authorship

<https://psychology.cas.lehigh.edu/faculty-staff/dominic-packer>

Lehigh Alumni — *A Visionary Gift Expands AI Access for Lehigh Faculty and Graduate Students* (January 2026) — H.S. Lee Family Foundation gift details and named purpose; Packer "semester zero" quote and mapping framing

<https://alumni.lehigh.edu/news-blog/visionary-gift-expands-ai-access-lehigh-faculty-and-graduate-students>

LTS — *Lehigh Rings in New Year with New Summit Exploring Generative AI* (January 2025), inaugural summit recap with Reihman as organizer and *Organization of the Future* lead

<https://lts.lehigh.edu/news/lehigh-rings-new-year-new-summit-exploring-generative-ai>

LTS — *LTS announces the appointment of Judd Hark as Director of CITL* (December 2025), and *LTS announces retirement of Peggy Kane, Director of CITL and Distance Education* establishing succession from Kane to Hark
<https://lts.lehigh.edu/news/lts-announces-appointment-judd-hark-director-citl>

The Brown and White — *Lehigh expands AI use through training, grants* (November 2025), Jeffrey Olimpo and OEIA leadership of the SMART program
<https://thebrownandwhite.com/2025/11/14/lehigh-expands-ai-use-through-training-grants/>

Lehigh University Catalog — *Principal Officers* list, Anand Jagota as Vice Provost for Research and Terry-Ann Jones as Deputy Provost for Undergraduate Education
<https://catalog.lehigh.edu/administrationfacultyandstaff/principalofficers/>

LTS — *Free access to enhanced AI tools for Lehigh faculty and graduate students* (December 2025), LLM Gateway, advanced AI tools form, no-signup access
<https://lts.lehigh.edu/news/free-access-enhanced-ai-tools-lehigh-faculty-and-graduate-students>

LTS — *Lehigh University joins Google AI for Education Accelerator to expand campus AI learning opportunities* (September 2025), Google partnership details and Reihman/Packer/Urban statements
<https://lts.lehigh.edu/news/lehigh-university-joins-google-ai-education-accelerator-expand-campus-ai-learning>

Lehigh Office of Research — *Guidance: Generative AI and Human Subjects Research*, the VPR policy artifact addressing IRB applications, AI translation verification, and approved Lehigh-contracted AI services for Class II data
<https://research.lehigh.edu/policies-guidance-forms/guidance-generative-ai-and-human-subjects-research>

Lehigh Preserve — *Lehigh AI* program description, Future Maker Strategy Grant, 20 funded projects, college distribution of contributors, program co-leads
<https://preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai>

LTS — *AI@Lehigh Summit 2026* event page, January 13 2026 program with full panelist roster
<https://lts.lehigh.edu/ai@lehigh-summit-2026>

Lehigh University News — *AI Dominates Conversation at Inclusive Excellence in Teaching Workshop* (February 2026), January 15 2026 Mountaintop event recap with Packer and Urban
<https://news.lehigh.edu/ai-dominates-conversation-at-inclusive-excellence-in-teaching-workshop>

LTS — *Welcome from LTS: Fall 2025 hours, resources, and updates for students*, Touchstone Theatre *Alice in Informationland* event and *Informationland* exhibit details
<https://lts.lehigh.edu/news/welcome-lts-fall-2025-hours-resources-and-updates-students>

CCPD report — *Employer Expectations for AI Fluency: Strategic Insights from Lehigh's Employer Partners* (public PDF, six pages), summer 2025 fifteen-employer qualitative outreach over a three-week period, three objectives, five focus areas, question-level findings including prompt engineering emphasis, named generative tools, and the one-credit exploratory course recommendation
[https://careercenter.lehigh.edu/sites/careercenter.lehigh.edu/files/Employer%20Expectations%20for%20AI%20Fluency%20\(3\).docx%20\(1\).pdf](https://careercenter.lehigh.edu/sites/careercenter.lehigh.edu/files/Employer%20Expectations%20for%20AI%20Fluency%20(3).docx%20(1).pdf)

CCPD AI Ready page — program announcement citing the fifteen-employer-partner study, scaffolded Beginner/Intermediate/Advanced LinkedIn Learning pathways, complement-to-classroom framing
<https://careercenter.lehigh.edu/students/ai-ready>

Lehigh University News — *Becoming AI Ready* (January 2026; also carried in the Fall/Winter 2025 Alumni Bulletin), Lori Kennedy as senior director of CCPD and survey lead, "dozens of employers, many Fortune 100 or 500" characterization, Kennedy statements on AI reshaping positions and ethical awareness, third-day employer expectation; also documents the 35-faculty AI Tutor cohort, Packer's "semester zero" framing, and the Bilal Khan course
<https://news.lehigh.edu/becoming-ai-ready>

CCPD Lehigh Talent employer page — report linked as "AI Fluency Insights Report" among employer resources
<https://careercenter.lehigh.edu/employers/lehigh-talent>

8.

Library and Technology Services — Arts and Libraries and Information Technology Services

KEY SIGNALS

Lehigh's most operationally distinctive AI assets — the LibreChat-based LLM Gateway giving all faculty and graduate students free access to OpenAI, Anthropic Claude, Perplexity, and Google Gemini in a single interface, the LTS sandbox using the OpenAI API with no model training on submitted data, the GenAI Software Registry for vendor inventory, and the explicit decision to opt out of Turnitin's AI detection add-on on false-positive grounds — all originate from the merged Library and Technology Services organization that existed from 2013 through April 2026. In April 2026 LTS was split: a new Arts and Libraries division under Vice Provost Greg Reihman absorbed the libraries, Zoellner Arts Center, and Lehigh University Art Galleries, while Information Technology Services became a standalone unit aligned to the division of Finance and Administration under Vice President Christine E. Cook. The AI tooling, the AI LibGuides, the security posture, and the SMART community of practice were built under the merged LTS and remain operationally interlocked across the new boundary.

This dossier covers the historical Library and Technology Services organization and the two units it became in April 2026. The Center for Innovation in Teaching and Learning is administratively housed in LTS but its AI-related programmatic work (AI Tutor Project, GEM framework, syllabus options, SMART) is documented in Unit 7 (Office of the Provost) because operationally it functions as the Provost cluster's faculty support arm. CITL leadership and reporting are noted here; CITL's AI programs are not duplicated.

8.1 Governance & Policy

The April 2026 Reorganization

In a March/April 2026 announcement, Lehigh restructured the merged Library and Technology Services organization into two units. A new Arts and Libraries division brings together Lehigh's libraries, Zoellner Arts Center, and Lehigh University Art Galleries under Vice Provost Greg Reihman, with the stated focus of elevating the arts and humanities and strengthening the visibility of cultural and intellectual resources across the university. Information Technology Services was simultaneously designated a standalone unit aligned to the division of Finance and Administration. Ilena Key, Associate Vice President for Information Technology Services and Chief Information Officer, leads

the standalone ITS unit. The stated rationale is to focus institutional attention on advancing digital transformation, strengthening cybersecurity, and supporting "future-ready solutions" across campus.

Christine E. Cook, Vice President for Finance and Administration, framed the alignment of ITS with Finance and Administration as recognition of "the critical role IT plays in supporting both our long-term strategy and daily operations" and as a step toward modernizing the university and "strengthening the creative and intellectual engines that support academic innovation and discovery." Reihman described continued close collaboration with ITS from the Arts and Libraries side, with an explicit commitment to "continue to innovate with the use of emerging digital tools for scholarship, creation, engagement and communication." Key framed the change in terms of AI and disruptive technology specifically: "As things like AI and disruptive technologies become commonplace in our daily conversations, realigning and thinking of tech in a new way provides an opportunity to think deeper about things like security, compliance and supporting research."

The reorganization is significant for AI governance because the LLM Gateway, the sandbox, the GenAI Software Registry, the data classification implementation, and the cybersecurity infrastructure all sit in ITS post-split, while the AI LibGuides, the Special Collections AI programming, the library research consultation services involving AI tools, and CITL administrative housing remain in Arts and Libraries. SMART, the AI Tutor Project, the AI@Lehigh Summit, and faculty AI office hours span both units operationally.

Data Classification Framework Implementation

The Office of Institutional Data, working with LTS, implements the Data Classification Framework that governs which categories of institutional data may be used with AI tools. Class I (Public) and certain Class II (Internal) data may be used with standard generative AI tools. Class III (Restricted) and Class IV (Critical) data — including Social Security numbers, student records covered by FERPA, and export-controlled information — may not be submitted to generative AI tools unless a specific Business Associate Agreement is in place with the vendor. These restrictions are tied to Lehigh's Acceptable Use of Computing Systems Policy, which any AI use must satisfy regardless of whether the user is in a class with a permissive or prohibitive AI syllabus.

GenAI Software Registry

LTS maintains a GenAI Software Registry for faculty and staff who already contract with vendors offering generative AI services. The stated purpose is to give LTS visibility into Lehigh's evolving AI ecosystem and to coordinate procurement, security review, and compliance across units. Faculty considering adopting or purchasing AI tools for academic or administrative purposes are asked to collaborate with LTS to ensure tools meet security, privacy, and compliance standards and to avoid redundant purchases.

The Turnitin AI Detection Opt-Out

LTS made the decision not to license Turnitin's AI detection add-on. The decision history is documented on the CITL faculty guidance page: instructors had access to Turnitin's AI detection during the spring and fall 2023 semesters as part of Lehigh's standard Turnitin license. When Turnitin

moved AI detection to a separate license model in spring 2024, LTS evaluated the AI content checker, expressed concerns about false positives, and decided not to pursue the add-on. Lehigh has continued to opt out through the 2025-26 academic year. The framing — that detection tools undermine student-teacher trust and have unacceptable false-positive rates — has been consistent across LTS and CITL communications.

Information Security Posture

The Office of Information Security under Chief Information Security Officer Eric Zematis is the reporting destination for any potential breach of data protection or confidentiality involving generative AI tools. Section 5 of Lehigh's Acceptable Use Policy requires any member of the Lehigh community who learns of a potential breach to report the incident to security@lehigh.edu. Zematis is identified alongside Reihman and Key as one of the three signatories on the LTS *Generative AI at Lehigh: Policies, Guidance, and Support* page, indicating shared institutional ownership of the policy framework across the library, technology, and security functions.

8.2 People

Greg Reihman — Vice Provost for Arts and Libraries

Reihman's biographical and AI-readiness leadership detail is documented in Unit 7. For Unit 8 purposes: he is the historical owner of the merged LTS organization's AI strategy (founding director of CITL 2013-2022, Vice Provost for Library and Technology Services 2020-2026, Vice Provost for Arts and Libraries from April 2026), the original AI@Lehigh Summit organizer, and the named co-contact for the AI Tutor Project alongside Packer. He is identified as the Lead for the Lehigh strategic plan's *Organization of the Future* initiative, which is the strategic frame under which the AI Readiness initiative sits. Reihman holds a PhD in Philosophy from the University of Texas at Austin and continues to teach in the Philosophy Department.

Ilana Key — Associate Vice President for Information Technology Services and Chief Information Officer

Key was named Lehigh's Chief Technology Officer in August 2019 after serving since 2014 as Assistant Director of CITL with leadership over the Instructional Technology Team, the College of Education Support Team, Web and Mobile Services, and Online Learning and Distance Education Operations. She holds a Doctor of Education in Educational Leadership from Northeastern University (2019), a Master of Arts from Teachers College Columbia University, a Master of Public Health from Indiana University Bloomington, and a Bachelor of Science from SUNY Cortland. Her career at Lehigh spans more than two decades, beginning as Manager of the Instructional Technology Consulting Team. She delivered the commencement address to the Lehigh Class of 2025 on May 17, 2025.

Key was a founding member of the Generative AI Advisory Group when the body was formed in January 2025, serving in her then-CTO capacity. She is also a member of the Provost's Core Implementation Team for AI-related strategic implementation, alongside Vice Provost for Academic

Systems and Services Jen O'Brien Knotts and Associate Vice President for Institutional Data Yenny Anderson. After the April 2026 reorganization Key leads ITS as a standalone unit reporting through Cook to the President.

Eric Zematis — Chief Information Security Officer

Zematis leads the Office of Information Security within ITS and is the institutional contact for AI-related security incidents. He is one of three named signatories on the *Generative AI at Lehigh: Policies, Guidance, and Support* page along with Reihman and Key.

Judd Hark — Director, Center for Innovation in Teaching and Learning

Hark is documented at length in Unit 7. For Unit 8 purposes: CITL is administratively housed within LTS (and remains so under Arts and Libraries post-reorganization), and Hark works closely with the LTS Leadership Team in addition to his Provost-cluster collaborations. He started his Lehigh career 21 years ago as the sole instructional technologist supporting the College of Arts and Sciences.

Justin Greenlee — CITL, Library and Technology Services

Greenlee is identified as a co-organizer of the Lehigh AI Future Maker Strategy Grant program (the digital hub funded in 2024) alongside Haiyan Jia (CAS), Zilong Pan (Education), and Greg Surovcik (Business). He is on the LTS/CITL side of the program and serves as one of the contact emails (jgg223@lehigh.edu) for participation.

Elizabeth Young Miller — Instruction and Outreach Librarian, Social Sciences Subject Librarian

Young Miller served on the *Using AI in Teaching and Learning at Lehigh* panel at the 2nd Annual AI@Lehigh Summit (January 13, 2026), representing the library instruction perspective alongside teaching faculty from CAS, Engineering, Health, and Education. She is the Social Sciences subject librarian (elm522@lehigh.edu) and is identified separately on the LTS subject librarian roster as Elizabeth Young Miller. Her panelist listing on the AI Summit page shortens her name to Elizabeth Young; both refer to the same person.

Subject Librarian Roster

The full subject librarian roster relevant to AI literacy outreach includes Mark Scott (Business and Economics), Jasmine Woodson (Education and Health), Phillip Hewitt (Engineering), Heather Simoneau (Humanities), Tricia Martone (Science, Math, Psychology), Elizabeth Young Miller (Social Sciences), and the Special Collections team (Lois Black, Ilhan Citak, Alex Japha, Eric Luhrs). Subject librarians are routine collaborators on AI literacy programming, citation guidance, and research consultation involving AI tools.

8.3 Teaching & Curriculum

CITL's faculty support programming (AI Tutor Project, GEM, SMART, syllabus options) is documented in Unit 7. This section covers LTS-side teaching and learning support that does not run through CITL's pedagogy programs.

LTS Seminars on Generative AI

LTS has run a series of seminars on generative AI as part of its standing professional development programming. As of January 2025, seven seminars on GenAI had been delivered through LTS Seminars. Recordings of LTS seminars and the 2025 CITL Symposium on Teaching and Learning are referenced from ai.lehigh.edu as catch-up resources for faculty.

AI Office Hours

LTS hosts standing AI office hours for consultations on using AI in the classroom, developing AI courses, developing AI solutions, and evaluating AI solutions. During the spring 2025 semester, generative AI office hours were held via Zoom on the last Friday of every month through April.

CITL Symposium on Teaching and Learning

The annual CITL Symposium on Teaching and Learning has featured generative AI as a recurring theme since the 2023 symposium, when student-developed posters on Generative AI were featured in the welcome session and a panel-and-workshop discussion on *The Implications of Generative AI for Teaching and Learning at Lehigh* was held in March 2023. The symposium is one of the recurring venues where Lehigh's institutional thinking about AI in pedagogy gets surfaced.

CITL Winter and Summer Workshops

CITL has integrated generative AI into its winter and summer faculty workshops since at least January 2023, when a Winter Workshop session on ChatGPT was held on January 12, 2023. The August 2023 Summer Workshop included a Reihman-facilitated discussion of generative AI's impact on teaching followed by hands-on sessions in the LTS Digital Media Studio computer lab exploring ChatGPT, DALL-E, and DataCamp.

8.4 Tools & Technology

The LLM Gateway (LibreChat)

The Lehigh LLM Gateway is a LibreChat-based interface providing all Lehigh faculty and graduate students with free access to multiple commercial large language models within a single interface: OpenAI's GPT family, Anthropic's Claude, Perplexity, and Google Gemini. Free access for all faculty and graduate students was announced in December 2025; users do not need to sign up separately. The Gateway is positioned as an addition to the suite of Google AI tools available to all campus users (including NotebookLM and the broader Gemini-first stack from the Google AI for Education Accelerator partnership).

Faculty and graduate students may also request free access to one of several advanced AI tools through an Advanced AI Tools Form available on the LTS news page. LTS provides guidance on which tool is best for which use case through the consultation request system.

The funding mechanism behind the Gateway expansion is documented as the H.S. Lee Family Foundation gift (covered in Unit 7). The infrastructure is hosted by ITS.

The LTS Sandbox

For non-technical users, LTS maintains a sandbox environment that interacts with OpenAI's generative AI tools (ChatGPT and DALL-E) through their API rather than through the consumer subscription interface. The architectural choice has two stated benefits: data submitted through the API is not used by OpenAI to train models (a privacy and IP advantage over the consumer ChatGPT interface), and API usage is billed by volume rather than monthly subscription, which can be substantially less expensive than monthly subscriptions depending on usage patterns and media type. The sandbox is offered as a web interface so that non-technical users can interact with the API without needing to write Python, JavaScript, PHP, or R code. Users can schedule a consultation with LTS to discuss generative AI use cases or sandbox access.

Recommended Tools

LTS recommends a curated set of AI tools accessible through Lehigh accounts for enhanced data protection. These include:

- **Google Gemini** — recommended starting tool, available campus-wide through Lehigh Google licensing as part of the Google AI for Education Accelerator partnership
- **Google NotebookLM, Gens, and AI Studio** — additional Google tools available through Lehigh accounts
- **DataCamp DataLab** — interactive AI-powered data analysis and training platform
- **Keenious AI** — AI-powered scholarly article discovery tool, accessed via Lehigh email rather than Google sign-in
- **Adobe Firefly AI** — image and visual effects tool available in the LTS Digital Media Studio
- **LinkedIn Learning** — on-demand courses on AI concepts, machine learning, and data science
- **O'Reilly Books and Courses** — technical learning platform with free AI courses, available through Lehigh Libraries

High-Performance Computing — Sol and Hawk

LTS Research Computing operates the Sol and Hawk high-performance computing clusters that serve as the compute backbone for Lehigh research. According to the LTS 2024-2025 Annual Report, the two clusters delivered 27 million core hours on a shared platform during the year. Hawk delivered 1.8 million core hours to Lehigh researchers and contributed an additional 3.5 million core hours to the Open Science Grid. Faculty condo investors who helped build Sol consumed 22 million core hours. More than 50 research groups and courses with 450 unique students and faculty used HPC resources during the year. The Hawk cluster supported six courses with traditional HPC and Jupyter Notebooks delivered through the Open OnDemand web portal. Ceph storage systems provided 500 TB of usable storage to researchers and staff. The HPC infrastructure is the foundation for AI and machine learning research at Lehigh and is treated more fully in Unit 6 (I-DISC) and Unit 1 (Engineering).

LTS XR Learning Lab and DIY Studio

LTS operates several technology-rich learning spaces in the Fairchild-Martindale Library, including the LETs Lab, the LTS CIRCLE, the XR Learning Lab, the Digital Media Studio, the Visualization Lab, and the DIY recording studio. The Digital Media Studio Mac Lab houses Adobe Firefly AI and is the venue for the hands-on sessions during CITL Summer Workshops.

8.5 Research & Scholarship

Library Research Consultation on AI

Subject librarians provide research consultations that include AI tool selection, evaluation, and ethical use guidance. The library research consultation request system (go.lehigh.edu/requestltsconsult) is the entry point.

Digital Humanities Initiative

Lehigh's Mellon Digital Humanities Initiative is administratively associated with the College of Arts and Sciences but draws on LTS digital scholarship support. Key has been listed as Affiliated Faculty and Staff of the Initiative through her CITL/instructional technology role. The Initiative is treated more fully in Unit 2 (College of Arts and Sciences).

LTS Research Computing as Co-Author Function

LTS Research Computing supports faculty research not only as a resource provider but also through staff expertise in HPC workflows, Jupyter Notebooks, and Open OnDemand portal access. The 2024-25 year's 27 million core hours represent the operational scale of LTS's contribution to Lehigh research capacity. No public list of specific AI/ML research projects supported by LTS Research Computing is surfaced in available sources beyond the aggregate utilization figures.

8.6 Events & Programming

AI@Lehigh Summit (Sponsorship)

LTS is the named sponsor of both AI@Lehigh Summits (January 9, 2025 and January 13, 2026), with support from the Offices of the Provost, Strategic Planning and Initiatives, Educational Innovation and Assessment, and Finance and Administration. Reihman organized the inaugural summit and delivered the opening remarks. Both summits and their full programs are documented in Unit 7.

Touchstone Theatre — *Alice in Informationland*

On October 8, 2025, Touchstone Theatre and Lehigh Libraries co-hosted *Alice in Informationland* at Linderman Library, a 7-9 p.m. performance described as exploring AI, ethics, and human-machine interaction through the lens of *Alice in Wonderland*. The event seeded a Special Collections exhibit, *Informationland: The Past and Future of Libraries*, which opened in Linderman Library following the performance and traces libraries' role from clay tablets through the present and into AI-mediated information environments. The collaboration is one of the more public-facing humanities-side AI events Lehigh has hosted and the only documented theatrical AI engagement in available sources.

***Tending to the Past* Exhibition**

A separate Linderman Library exhibition, *Tending to the Past: Works from the Petrucci Family Foundation of African American Art*, ran from mid-September 2025 through March 2026 on the 6th Floor South of Fairchild-Martindale Library. An associated exhibit, drawn from the same partnership, was displayed in the Bayer Galleria of Linderman Library from October 2024 through December 2025, with a continuation at the Moravian Archives through March 2026. These exhibitions are not AI-themed but are part of the Arts and Libraries division's broader programming portfolio.

LTS Student Design Competition

LTS launched a student design competition for a new art installation in Fairchild-Martindale Library, with submissions reflecting the LTS Strategic Plan and fostering creativity and interdisciplinary collaboration. In February 2025, Holly Fasching '26 and Kenna Macdonald '27 were announced as winners for their design *Mossgrove* and worked with Capstone students and faculty advisors during fall 2025 to refine, prototype, and construct the installation. Each winner received a \$600 award.

LTS Strategic Plan and the AI-Ready Campus Commitment

LTS publishes a rolling "2023+" Strategic Plan updated annually. The 2024-25 Annual Report's forward-looking section commits LTS in 2026 to "deepen our commitment to an AI-ready campus, expanding resources and empowering our community to explore these powerful tools ethically and effectively in teaching, research, and university operations." This is the LTS-side institutional commitment to the broader AI Readiness initiative documented in Unit 7.

Lehigh AI LibGuides

The Lehigh Libraries AI guide at libraryguides.lehigh.edu/Artificial-Intelligence is structured as a tiered resource for users at different levels of familiarity with AI tools. Resources are coded by shape (circle for beginners, additional shapes for intermediate and advanced) so that users can navigate by expertise level. The guide includes frameworks for evaluating AI output, prompting tips, ethical use guidance, and citation instructions including APA 7th Edition guidance for AI-generated content.

A separate citation guide page within the broader Lehigh Libraries citation guide addresses *Citing ChatGPT and Similar AI Tools*, including the Artificial Intelligence Disclosure (AID) Framework developed by Kari D. Weaver, plus links to APA's guidance on citing ChatGPT and the MLA's guidance on citing generative AI in MLA style. The page recommends contacting the relevant subject librarian or course professor for additional guidance.

A *GenAI in the Libraries* guide, referenced from ai.lehigh.edu, provides information-literacy-informed approaches to AI tools tailored for academic research. The guide is positioned as the more advanced library-research-focused companion to the general AI guide.

Gaps and Observations

The April 2026 reorganization is fresh enough that the operational ownership of several jointly-built AI assets is not yet clearly redrawn in public sources. The LLM Gateway, the sandbox, and the GenAI

Software Registry are infrastructurally hosted by ITS but were built collaboratively with library and CITL staff; whether ongoing curation and user support flow through ITS, Arts and Libraries, or both is not stated in current LTS communications. The CITL administrative reporting line (continuing through Reihman in Arts and Libraries despite ITS being the more natural infrastructural home for several CITL technology programs) is also worth flagging as a coordination question that the public reorganization announcement does not address.

The two AI LibGuides (the general *Artificial Intelligence* guide and the *GenAI in the Libraries* guide) are referenced from the central ai.lehigh.edu portal but the URL for the second guide is not surfaced in available sources by search; the only discoverable LibGuide at libraryguides.lehigh.edu specifically about AI is the general guide. Whether the *GenAI in the Libraries* guide is a separate URL or a section within the general guide is not clear from public sources without authenticated access.

The named author or editor of the Lehigh AI LibGuide is not surfaced in available sources accessible without LibApps login. Most academic library AI guides list a librarian author with contact information; the Lehigh guide either does not surface this on the public-facing index or the metadata is inside the guide structure rather than on the welcome page. Worth flagging because attribution would let the dossier credit the specific librarian doing the AI literacy curation work.

The W&M Peer Benchmark and earlier project documentation describe Lehigh's Turnitin opt-out as a 2025-26 academic year decision. The actual public source — the CITL faculty guidance page — documents the decision as having been made in spring 2024 when Turnitin moved AI detection to a separate license model, with Lehigh continuing to opt out through 2025-26. The substance is the same; the timing reframing matters for accurate sourcing.

The relationship between LTS Research Computing's HPC capacity and specific AI/ML research projects is documented only at the aggregate level. Public sources surface 27 million core hours and 50+ research groups but do not list which projects use HPC for AI/ML versus other computational work. This gap is filled in part by I-DISC and Engineering documentation (Unit 6 and Unit 1) but a unit-level audit of LTS's specific contributions to AI research is not publicly available.

The LTS 2024-25 Annual Report references the LET's Lab, LTS CIRCLE, XR Learning Lab, and DIY Studio as Lehigh-distinctive technology spaces but does not document specific AI programming in those spaces. Whether these spaces are venues for AI-related instruction beyond what flows through CITL is not stated.

Cross-References

- **Office of the Provost — AI Readiness, CITL, and OEIA (Unit 7):** CITL is administratively housed in LTS but its AI programmatic work (AI Tutor Project, GEM, SMART, syllabus options) is documented in Unit 7; LLM Gateway funding via the H.S. Lee Family Foundation gift is also covered in Unit 7.
- **I-DISC (Unit 6):** Sol and Hawk HPC clusters operated by LTS Research Computing serve I-DISC research; LTS staff support I-DISC projects.

- **P.C. Rossin College of Engineering and Applied Science (Unit 1):** Engineering faculty are the largest user population for HPC; engineering AI research depends on LTS infrastructure.
- **College of Arts and Sciences (Unit 2):** Mellon Digital Humanities Initiative draws on LTS digital scholarship support; Touchstone Theatre is a community partner that intersects with the College of Arts and Sciences performance programming.
- **College of Business (Unit 3):** Greg Surovcik (DATA Visiting Lecturer) co-leads the Lehigh AI Future Maker Strategy Grant program with Justin Greenlee (CITL/LTS); Catherine Ridings (DATA Professor Emerita) co-hosted the April 2023 iLLUminate podcast on AI in higher education with Greg Reihman; the College accesses the institutional LLM Gateway and approved AI tool stack through standard LTS pathways.
- **College of Health (Unit 4):** The Health Data Warehouse (Bilal Khan, Director) is housed in HST and complements the institutional Lehigh data infrastructure documented here; the College accesses the institutional LLM Gateway, Gemini, NotebookLM, and approved AI tools through standard LTS pathways.
- **College of Education (Unit 5):** Subject librarian Jasmine Woodson covers Education and Health; CITL coordinates with the College of Education on instructional technology training.
- **Office of Research (Unit 9):** Research Computing is the bridge between LTS infrastructure and Office of Research support for grant-funded AI projects.
- **Part I, Section IV (Tool Ecosystem & Procurement Governance):** The LLM Gateway, sandbox, GenAI Software Registry, and approved tool list are the operational core of Part I Section IV.
- **Part I, Section VII (Library & Information Literacy Signals):** The AI LibGuide, *GenAI in the Libraries* guide, *Citing ChatGPT* citation guidance, and subject librarian consultation services are the substance of Part I Section VII.
- **Part I, Section VIII (Infrastructure & Strategic Investment Signals):** Sol and Hawk HPC clusters are the institutional compute infrastructure supporting AI research.

Sources

Lehigh AI portal — main landing page with the LLM Gateway, sandbox, and recommended tool ecosystem descriptions, consolidating LTS Seminar recordings and AI Office Hours information

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

Lehigh University News — *Lehigh Announces New Structure for Arts, Libraries and Technology* (March/April 2026), reorganization announcement with quotes from Urban, Reihman, Cook, and Key

<https://news.lehigh.edu/lehigh-announces-new-structure-for-arts-libraries-and-technology>

LTS — *Generative AI at Lehigh: Policies, Guidance, and Support*, including Data Classification Framework references, the GenAI Software Registry, signatories Reihman/Key/Zematis, and the Lehigh Libraries AI guide content description with APA 7th Edition citation guidance

<https://lts.lehigh.edu/news/generative-ai-lehigh-policies-guidance-and-support>

LTS — *CITL Guidance for Faculty on Generative AI in the Classroom*, sandbox architecture description and Turnitin AI detection opt-out history

<https://lts.lehigh.edu/citl-guidance-faculty-generative-ai-classroom>

Lehigh AI portal — *Principles, Policies and Expectations*, Section 5 of the Acceptable Use Policy and Office of Information Security reporting requirement
<https://ai.lehigh.edu/principles>

Lehigh — Greg Reihman bio page
<https://wordpress.lehigh.edu/grr3/bio/>

LTS — *Lehigh Rings in New Year with New Summit Exploring Generative AI* (January 2025) — inaugural summit recap identifying Reihman as Lead for the Organization of the Future strategic initiative, referencing seven prior LTS GenAI seminars, and documenting standing AI office hours
<https://lts.lehigh.edu/news/lehigh-rings-new-year-new-summit-exploring-generative-ai>

LTS — *Ilena Key named Lehigh's new Chief Technology Officer* (August 2019), appointment announcement with prior CITL responsibilities and CTO charge
<https://ltsnews.lehigh.edu/ilena-key-named-lehigh-s-new-chief-technology-officer>

LTS — Ilena Key, Ed.D. profile page with contact and credentials; also the destination for her Mellon Digital Humanities Initiative affiliated faculty and staff listing following the digitalhumanities.cas.lehigh.edu subdomain dormancy
<https://lts.lehigh.edu/profile/ilena-key-edd>

Ilena Key public LinkedIn — commencement address to Lehigh Class of 2025 on May 17, 2025
<https://www.linkedin.com/in/ilena-key-edd-38290713/>

Lehigh University News — *Lehigh Rings in New Year with New Summit Exploring Generative AI* (February 2025), Generative AI Advisory Group founding membership including Key as CTO
<https://news.lehigh.edu/lehigh-rings-in-new-year-with-new-summit-exploring-generative-ai>

Lehigh Office of the Provost — Core Implementation Team page listing Key alongside Knotts and Anderson
<https://provost.lehigh.edu/core-implementation-team>

LTS — *LTS announces the appointment of Judd Hark as Director of CITL* (December 2025), Hark biography and CITL coordination scope
<https://lts.lehigh.edu/news/lts-announces-appointment-judd-hark-director-citl>

Lehigh Preserve — *Lehigh AI* program description with co-leads Greenlee, Jia, Pan, and Surovcik
<https://preserve.lehigh.edu/lehigh-scholarship/prize-winning-papers-posters/lehigh-ai>

LTS — *AI@Lehigh Summit 2026* event page with full panelist roster including Elizabeth Young
<https://lts.lehigh.edu/ai@lehigh-summit-2026>

Lehigh Library Guides — Librarians page listing subject librarian assignments and contact information
<https://libraryguides.lehigh.edu/welcome>

CITL Events — *Symposium on Teaching and Learning* April 2023 program with student-developed posters on Generative AI and the March 24, 2023 panel and workshop; also the January 2023 Winter Workshop ChatGPT session and the August 2023 Summer Workshop with Reihman on generative AI
<https://lts.lehigh.edu/about/events>

LTS — *Free access to enhanced AI tools for Lehigh faculty and graduate students* (December 2025), LLM Gateway, advanced AI tools form, no-signup access
<https://lts.lehigh.edu/news/free-access-enhanced-ai-tools-lehigh-faculty-and-graduate-students>

LTS — *2024-2025 Annual Report*, HPC utilization figures, learning spaces, AI-ready campus commitment, and student installation award
<https://lts.lehigh.edu/lts-2024-2025-annual-report>

LTS — *Welcome from LTS: Fall 2025 hours, resources, and updates for students*, Touchstone Theatre *Alice in Informationland* event, *Informationland* Special Collections exhibit, *Tending to the Past* exhibition
<https://lts.lehigh.edu/news/welcome-lts-fall-2025-hours-resources-and-updates-students>

Lehigh Library Guides — *Artificial Intelligence* welcome page describing the tiered resource structure

<https://libraryguides.lehigh.edu/Artificial-Intelligence>

Lehigh Library Guides — *Citing ChatGPT and Similar AI Tools* citation guide page with the AID Framework reference

<https://libraryguides.lehigh.edu/c.php?g=1296759&p=9803687>

9.

Office of the Vice Provost for Research

KEY SIGNALS

The Office of the Vice Provost for Research holds the institutional levers for federally sponsored research, research integrity, and technology transfer at Lehigh, but its public AI footprint is procedural rather than strategic. The office has issued one substantive AI document — *Guidance: Generative AI and Human Subjects Research* — and ties acceptable AI use in human subjects work to the Lehigh-contracted services administered by LTS. It has not designated AI as a University Research Center theme, has not issued an AI-specific seed funding call, and does not name AI as a research-investment priority in the *Inspiring the Future Makers* strategy alongside the three URC themes (catastrophe modeling, community-driven assistive technologies, electrification). AI surfaces inside the office's portfolio chiefly through the NSF Accelerating Research Translation award that funds the Research Translation AcceLURator, where individual translation projects use AI as a method, and through the Center for Catastrophe Modeling and Resilience, where Maryam Rahnemoonfar's AI-driven damage assessment work is one of six projects in the new Lehigh-Rice CERCat consortium. The office's primary AI-governance contribution is the IRB guidance document, which is the only publicly posted Lehigh research-policy artifact that addresses generative AI directly.

9.1 Governance & Policy

The Office of the Vice Provost for Research is the administrative stem under which Lehigh's research enterprise operates. The Vice Provost for Research is the university's chief research officer and reports to the Provost. The office is organized around four functional units: the Office of Research and Sponsored Programs (ORSP), Research Integrity, Research Development, and the Office of Technology Transfer (OTT), with Postdoctoral Affairs as a separate program area.

ORSP administers all external sponsored funding, including pre-award proposal review and post-award management. All applications for external funding must be reviewed and approved by ORSP prior to submission to the sponsor, and the office maintains a five-business-day pre-submission review window. Faculty submit through the Lehigh Integrated Research Administration (LIRA) system, which also handles annual conflict of interest disclosures. Internal grant proposals route through the InfoReady portal.

Research Integrity oversees the Institutional Review Board (IRB), the Institutional Animal Care and Use Committee (IACUC), and the Conflict of Interest in Research Committee (CIRC) that manages financial conflicts in sponsored programs. The IRB submission system is IRBNet. A new Research Misconduct Policy was finalized and went into effect January 1, 2026, replacing the prior policy

through a formal review process that included faculty consultation. The publicly posted policy and FAQs do not specifically address generative AI use in research products, fabricated data produced by generative tools, or undisclosed AI authorship.

The office's most consequential AI policy artifact is *Guidance: Generative AI and Human Subjects Research*, posted on the VPR website under policies and guidance. The document sets several specific expectations for IRB applications involving AI:

- Researchers must describe how data will be de-identified prior to AI use, and the guidance flags that AI tools may infer personal information from de-identified data and that metadata (file names, geolocation, timestamps) must be removed before AI use.
- Use of AI to analyze or process data must be disclosed to participants in the consent process, and the consent language must describe which AI tools will be used and whether they will process identifiable or de-identified data.
- Use of AI must also be disclosed in publications and presentations.
- Researchers must explain in IRB materials how conclusions derived from AI will be verified and how AI-using methods can be replicated.
- AI may not substitute for an interpreter or fluent/certified translator in research with non-English-speaking participants. AI translations of study materials must be verified by a human translator, with certification required for greater-than-minimal-risk research.
- The guidance ties acceptable AI tool selection to a "selection of contracted AI services" Lehigh offers, and specifies that services acceptable for Class II data may be used in human subjects research upon IRB approval, accessed via Lehigh accounts.

The Class II data reference and the contracted-services framing connect the IRB guidance directly to the LTS-administered tool ecosystem documented in Unit 8 — the LLM Gateway, the Gemini deployment, and the broader Google AI for Education partnership. The Office of Research did not issue parallel guidance for non-human-subjects AI research, AI-assisted manuscript preparation, or AI use in grant proposal development.

The office operates two additional governance instruments that shape research conduct generally and apply by extension to AI work. The Financial Conflict of Interest in Research and Sponsored Programs policy requires disclosure from each individual responsible for the design, conduct, or reporting of research, with annual COI disclosures filed through LIRA. The Federalwide Assurance on file with HHS commits Lehigh to comply with federal regulations for the protection of human subjects regardless of geographic location of the research. Multi-site collaborative AI research can be governed by IRB Authorization Agreements, where Lehigh either cedes or accepts review authority depending on the lead institution and the research scope.

The *Inspiring the Future Makers* strategy commits the university to doubling its research footprint and funding within a decade, and the Office of Research is the operational locus for that commitment. R1 designation by the Carnegie Classification of Institutions of Higher Education was granted in February 2025, recognizing FY2023 expenditures of \$56.3 million and 94 doctorates awarded. FY2024 sponsored program expenditures reached \$58.7 million. President Helble has stated that annual

research expenditures grew 55% over four years, with the strategic plan committing to doubling that figure within ten years. Neither the public R1 announcement nor the strategy documents name AI as a designated research priority area; AI appears in strategic communications under the framing of "AI readiness" and "AI fluency," which are positioned as student-preparation and operational concerns rather than research-investment priorities.

9.2 People

Anand Jagota — Vice Provost for Research; Robert W. Wiesenman 1916 Professor; Professor of Bioengineering and Chemical and Biomolecular Engineering. Jagota was named VPR effective July 28, 2022, succeeding Alan Snyder, who held the role for ten years. Jagota joined Lehigh in 2004 as professor and director of the bioengineering program in the P.C. Rossin College of Engineering and Applied Science, served as founding chair of the Department of Bioengineering from 2017 to 2020, and served as Associate Dean of Research for the College of Health from March 2021 until taking the VPR role. Prior to Lehigh he spent sixteen years as a research scientist at DuPont. His research is in biomaterials, biomechanics, nanobiotechnology, and DNA-carbon nanotube hybrids. Jagota maintains his lab and faculty appointment in Bioengineering while serving as VPR. His public statements and announcements have not addressed AI as a research-strategic theme; the AI guidance document carrying his office's authority addresses procedural questions about IRB review, not strategic research direction.

Cynthia Kane — Associate Vice Provost, ORSP. Kane leads the sponsored programs operation, including pre-award proposal review, post-award management, and the Contract and Grant Specialist team that supports each Lehigh department.

Dominic Packer — Associate Vice Provost for Research; also Vice Provost for Educational Innovation and Assessment and Senior Advisor to the Vice Provost for Research. Packer holds dual roles bridging the Provost cluster and the VPR office. He is the public-facing voice on the University Research Center initiative and on the draft AI principles that he presented at the November 2025 Town Hall. Packer's role makes him the most consistent personnel link between the institutional AI principles work (Unit 7), the URC research-strategy structure, and the IRB AI guidance.

John Coulter — Associate Vice Provost for Research Translation; Principal Investigator on the National Science Foundation Accelerating Research Translation award funding the Research Translation AccelURator. Coulter presented the orientation for the inaugural RTA Summer Internship cohort in May 2025 and frames the RTA's goal as "being a bridge from academia to the industry."

Rick Smith — Director, Office of Technology Transfer. Smith joined Lehigh in April 2019 and holds bachelor's degrees in computer science and physics, master's degrees in electrical engineering and entrepreneurship in applied technology, and an MBA in accounting and finance. OTT files

approximately twenty patent applications per year on Lehigh faculty inventions. OTT is housed in Whitaker Laboratory.

Ellen Klein — Research Integrity Manager. Klein's portfolio covers the Financial Conflicts of Interest in Research and Sponsored Programs (fCOI) function, the Human Subjects Research (IRB) function, and the Vertebrate Animal Research (IACUC) function. Klein is the operational point of contact for IRB submissions involving generative AI under the office's guidance document.

The VPR office's staff directory lists Contract and Grant Specialists assigned to specific departments, including a specialist whose portfolio covers the College of Education, Center for Phonics & Nanolec, Center for Research to Practice, Creative Inquiry, Electrical & Computer Engineering, LTS, and NSF Fellowships.

9.3 Teaching & Curriculum

The Office of Research administers one credit-bearing curriculum directly: the RTA doctoral courses funded by the NSF ART award. These are one-credit courses designed for Lehigh doctoral students from all five colleges to enhance professional development and accelerate research translation, offered with no tuition charge to doctoral students. A student can take these courses as electives, as part of a research-credit package to reach full-time status (eight research credits plus one RTA credit), or as the required credit for maintenance of candidacy. Brianne Lisk in the RTA program handles registration overrides. The course sequence is positioned as part of the NSF ART grant deliverables and is the office's primary teaching footprint.

Beyond the RTA courses, the office does not directly teach. It administers the human subjects training requirement (CITI-equivalent online training) that researchers must complete before working with human subjects, including any project that uses generative AI tools to process human subjects data under the IRB guidance described above.

9.4 Tools & Technology

The Office of Research operates and oversees several systems that touch AI use indirectly:

LIRA (Lehigh Integrated Research Administration) — the proposal submission and disclosure system. PIs submit external funding proposals through LIRA, which also handles annual COI disclosures and the LIRA Disclosure Process for individual investigators. LIRA is the system through which AI-related research projects with external funding are routed.

IRBNet — the IRB and IACUC submission system. All human subjects research protocols (including those using generative AI under the office's guidance) flow through IRBNet, as do animal use protocols and IRB Authorization Agreements for multi-site work.

InfoReady — the internal grants portal. Internal funding proposals to the FIG, CORE, and Accelerator programs (when active) and to the seed fund programs route through InfoReady.

Approved AI services list — the IRB AI guidance references "a selection of contracted AI services" that Lehigh offers, with services acceptable for Class II data permitted in human subjects research

upon IRB approval. The list itself is not posted as a standalone artifact on the VPR site; the references in the IRB guidance point to the LTS-administered tool ecosystem (LLM Gateway, Gemini, NotebookLM) documented in Unit 8. The Office of Research has not published its own approved-services list; it relies on the LTS list and the Class II data classification.

The office does not publicly document its own use of AI tools for proposal review, grants management, or research integrity case work.

9.5 Research & Scholarship

The Office of Research's research-funding portfolio includes both the institutional funding picture and the office's discretionary internal grant programs. AI-relevant research at Lehigh flows largely through the colleges and centers documented in Units 1–6, but the office is the structural backer for several initiatives where AI methods are central or substantial.

Research expenditure trajectory and R1 status

Sponsored program expenditures grew from \$40 million in fiscal year 2021 to \$58.7 million in fiscal year 2024, an increase of approximately 47% over three years. Lehigh awarded 99 doctorates in the most recent year and has ranged between 90 and 113 doctorates per year over the past eight years. In February 2025 the Carnegie Classification of Institutions of Higher Education designated Lehigh as an R1 research university, recognizing the FY2023 baseline of \$56.3 million in research expenditures and 94 doctorates awarded. Only 187 institutions nationwide hold R1 status, and Lehigh is one of seven R1 institutions in Pennsylvania and the only R1 in the Lehigh Valley.

University Research Centers

The University Research Center designation is the office's flagship research-investment instrument. URCs receive institutional funding and infrastructure commitment, with affiliated faculty expected to invest at least 50% of their research effort in the center. Three URCs have been designated:

Center for Catastrophe Modeling and Resilience (CCMR) — established 2024 as Lehigh's first URC. Director Paolo Bocchini, Professor of Civil and Environmental Engineering. CCMR was the institutional successor to the Catastrophe Modeling group that originated as a research initiative within I-DISC. CCMR's externally facing materials describe the center as "using advanced technology and analytics, including Artificial Intelligence, to modernize the science and accuracy of catastrophe modeling," and the center hosts the only graduate-level degree program in the United States training students to develop and use catastrophe models. In April 2025 CCMR launched the Consortium for Enhancing Resilience and Catastrophe Modeling (CERCat), a partnership with Rice University governed by an Industry Advisory Board with representatives from nine partner companies in insurance, reinsurance, catastrophe modeling vendors, and engineering and consulting firms. CERCat held its inaugural meeting at Lehigh in August 2025 and its second semiannual meeting at Rice in February 2026, with six research projects underway. Among these is **AI-Driven Damage Assessment**, led by **Maryam Rahnemoonfar**, Associate Professor of Computer Science and Engineering and Civil and Environmental Engineering at Lehigh. The project develops multimodal foundation models that integrate AI and remote sensing for post-disaster response, designed to

operate across different sensors and image modalities and to enable rapid analysis when no labeled training data is available. Rahnemoonfar's framing is that current AI approaches do not generalize well across different disaster types, data sources, or operational needs, and the project addresses that gap directly. CERCat received an NSF planning grant in 2025 to pursue formal Industry-University Cooperative Research Center (IUCRC) status; the IUCRC application explicitly describes machine learning as one of the team's areas of strength, alongside probabilistic modeling, GIS, and public policy.

Center for Community-Driven Assistive Technologies (CDAT) — second URC, established alongside ACES. CDAT focuses on assistive technologies for individuals with disabilities and is the institutional home for related work led by faculty including Vinod Namboodiri (Forlenza Endowed Chair in Health Data Science, documented in Unit 4).

Center for Advancing Community Electrification Solutions (ACES) — third URC. ACES focuses on efficient, reliable, and self-sustaining energy systems for communities.

The Office of Research has not designated AI itself as a URC theme. AI surfaces inside the URC structure as a method (CCMR's AI-driven damage assessment, CDAT's accessibility AI work) rather than as a research focus area in its own right. This is a structural choice. URCs are organized around problem domains, and Lehigh's three URCs target catastrophe, accessibility, and electrification problems where AI is one tool among several.

Research Translation AcceLURator (RTA)

The RTA is funded by a four-year, \$6 million award from the National Science Foundation's Accelerating Research Translation program. John Coulter is PI and Associate Vice Provost for Research Translation. The RTA is structured to support translation of discoveries into applications across all five colleges, with funding covering seed projects, translational education curricula, and infrastructure.

Since its inception in February 2024, the RTA has officially supported five Strategic Research Translation Projects (STRPs) and provided mentorship and educational modules to additional faculty teams. Named PIs for STRPs include Lee Kern, Javad Khazaei, John Fox, Doug Spengel, George DuPaul, Rosa Zheng, and Vinod Namboodiri. The five documented STRPs are:

1. **Low Energy, No Chemical, Wastewater Recovery and Reuse in Cities/Metropolis** — Arup SenGupta and John Fox, the HIX-Desal process (not AI-related).
2. **PEAK (Promoting Engagement with ADHD pre-Kindergartners)** — Lee Kern and George DuPaul, a behavioral parent training program with face-to-face and online versions (not centrally AI-related).
3. **MABLE accessible indoor mapping** — community-centered indoor accessibility maps for people with disabilities, with web app, mobile app, and localization components and a minimum viable product targeted for December 2024. The project is integrated into the ART ecosystem and supported by existing NSF grants. MABLE has computer vision and accessibility AI components and is associated with Vinod Namboodiri's broader accessibility research portfolio.
4. **Real-time Resilience Metrics for SCADA Power Grid Platforms** — a two-year project to validate the technology in a lab, test it on Lehigh's electricity grid, and expand to multiple campuses, targeting Technology Readiness Level

7 (the named PIs in the broader STRP list include Javad Khazaei, who works in power systems). 5. **Acoustic Modems for Real-Time Underwater Wireless Communications** — Yahong (Rosa) Zheng's project on underwater wireless communication.

The RTA also supported the DECISIONCAST translation work led by Thomas McAndrew documented in Unit 4, which is the most explicitly AI-focused translation project in the RTA portfolio. DECISIONCAST is a clinical decision-support AI tool whose translation pathway moved through the RTA infrastructure. McAndrew's work is the clearest case where the RTA mechanism has been used to advance an AI application from research toward deployment.

The RTA hosts a Summer Internship as a 10-week paid program, with the inaugural cohort beginning May 28, 2025 alongside the STEM-SI summer institute. The orientation was led by Neal Simon and Vassie Ware of the Department of Biological Sciences. Doctoral RTA courses run concurrently as part of the same NSF ART deliverable structure.

NSF PIPP Phase I Pandemic Prediction Grant (Jagota PI)

The Office of the Vice Provost for Research is the institutional home of one large externally-funded NSF research award on which the Vice Provost himself is the named Principal Investigator: a \$1 million National Science Foundation Predictive Intelligence for Pandemic Prevention (PIPP) Phase I award (NSF #2200066), *Dynamics of Pandemic Spread and Prevention in Indigenous Communities*. The 18-month Phase I project is jointly funded by NSF's Directorates for Biological Sciences, Computer Information Science and Engineering, Engineering, and Social, Behavioral and Economic Sciences. Anand Jagota is PI; the team includes thirteen Lehigh faculty co-investigators, two industry collaborators, the healthcare provider Geisinger as research and clinical partner, and members of the Cheyenne River Sioux and Prairie Band Potawatomi tribes.

The Lehigh faculty co-investigator roster spans four colleges and the Office of Research itself: Jessecae Marsh (Psychology, College of Arts and Sciences), Paolo Bocchini (Civil and Environmental Engineering, Rossin College — also CCMR Director, see 9.5 above), Xuanhong Cheng (Bioengineering and Materials Science and Engineering, Rossin College), Thomas McAndrew (Biostatistics and Health Data Science, College of Health), Sean Daley and Christine M. Daley (Institute for Indigenous Studies, College of Health), Julie Pacheco (Community and Global Health, College of Health and IIS Director), and additional senior personnel from biology, data science, cognitive psychology, and Indigenous studies. The team's four research thrusts converge engineering, biology, data science, and cognitive psychology to examine how disease — in this case influenza — affects underserved and isolated Indigenous communities, and to build forecasting and diagnostic tools that work in those settings. The project includes an explicit team-science meta-research component led by Kate Arrington (Psychology), in which all team meetings are recorded and analyzed for team dynamics, communication, and effectiveness in conducting convergent science across disciplines.

The PIPP Phase I award is the most cross-collegial federally-funded research grant where the VPR is institutional PI and is one of two documented federal AI/data-science investments where the VPR's office is the structural lead for the award (the other being the NSF Accelerating Research Translation

award discussed above with Coulter as PI). It is documented from the College of Health side in Unit 4 (McAndrew co-investigator role), from Unit 1 (Bocchini and Cheng), Unit 2 (Marsh), and Unit 6 (the I-DISC catastrophe modeling lineage that pre-dates Bocchini's CCMR directorship). The 18-month Phase I structure is designed to position the team for a Phase II application; whether a Phase II proposal has been submitted or funded is not surfaced in available public sources.

Internal grants and seed funding

The office's internal grants program comprises three tiers, all funded in part by the Smith Fund for Research and Innovation in Science and Engineering and in part by university funds:

- **Faculty Innovation Grants (FIG)** — up to \$35,000 to launch new research projects or expand research programs beyond their current scope.
- **Collaborative Research Opportunity (CORE) Grants** — up to \$70,000 for projects involving at least two tenure-track or research-track faculty members, designed to establish new multi-faculty research programs.
- **Accelerator Grants** — up to \$250,000 over a two-year period for teams of at least three tenure-track faculty (with at least one Associate or Full Professor as PI), designed to support major research programs in promising areas. One Accelerator Grant is awarded per year. Summer salary is capped at \$5,000 per person, a provision added in August 2023.

As of June 9, 2025, the FIG program is on hold "until further notice," and the broader internal grants pause is documented across the program pages. The office announced two replacement programs in 2025: the **Fund for Proposal Development**, offering awards of up to \$20,000 to faculty teams who need targeted, short-term resources to submit a competitive external proposal, and a parallel program of similar size. The shift from \$250,000 Accelerator awards to \$20,000 proposal-development awards represents a contraction in the office's discretionary research-funding pool, even as institutional research expenditures continue to grow. The contradiction is structural, reflecting growth driven primarily by external sponsored revenue rather than by expanded internal seed capacity.

None of the FIG, CORE, or Accelerator awards have been publicly designated as AI-themed in materials reviewed for this dossier; the internal funding pages list program categories rather than thematic AI awards. The office has not announced an AI-specific internal seed call.

Research Futures

Research Futures was a one-time \$20 million institutional investment announced under then-Provost Pat Farrell, directed at faculty hiring (approximately one-third of the funds), major research opportunities, community-building and ideation activities such as workshops and study groups, startup of college research support offices, and research infrastructure. The original program portal on the decommissioned research.cc.lehigh.edu subdomain is no longer live; recent award activity under the Research Futures banner is not documented at a current public source.

Sabbatical Fellows

The office administers the University Sabbatical Fellows Program. The 2026-2027 cohort of fellows was announced following review of more than 50 applications. No AI-specific theme is associated with the sabbatical program in publicly available materials.

9.6 Events & Programming

2025 Lehigh University Research Symposium — annual research showcase organized by the office.

RTA Summer Internship orientation — May 28, 2025, inaugural cohort, led by Neal Simon and Vassie Ware. Coulter presented the program overview to the joint RTA and STEM-SI cohort.

CCMR Workshop on Climate, Equity, and Resilience in Catastrophe Modeling — held in October 2024, immediately following Hurricanes Helene and Milton. The workshop became a roundtable on the modeling implications of the hurricanes' rapid intensification.

CERCat semiannual meetings — inaugural meeting at Lehigh in August 2025 launched six research projects; second semiannual meeting at Rice in February 2026 reviewed midyear updates on those projects, including Rahnemoonfar's AI-Driven Damage Assessment work.

Reinsurance Association of America Cat Risk Conference 2026 — CCMR and CERCat sponsored and exhibited at the February 2026 conference in Orlando, with breakout sessions on industry-academic collaborations on long-term tropical cyclone hazard assessment and on vulnerability models. CERCat partners from Everest Re, Arch, and Chubb participated in the panels.

The Office of Research does not publicly host AI-specific events under its own banner. AI-themed Lehigh events are typically organized by LTS (the AI@Lehigh Summit, documented in Unit 8) or by the colleges (the I-DISC seminars in Unit 6, the Engineering AI initiatives in Unit 1).

Gaps and Observations

The Office of Research's AI footprint is procedural rather than strategic. Of the four governance instruments the office could deploy to shape AI research at Lehigh — IRB guidance, internal seed funding designated for AI, URC designation for an AI theme, and a research-strategic statement on AI as a priority area — only the first has been activated. The IRB guidance document is substantive and well-constructed, but it addresses one narrow slice of AI research (human subjects work) and ties acceptable AI tools to LTS contracting decisions rather than to a research-office independent assessment.

The contrast with how the office has structured catastrophe modeling, accessibility, and electrification is instructive. Each of those research themes received URC designation, faculty effort commitments, dedicated seed-funding pathways, and named institutional leadership. AI has received none of these. This is not necessarily a deficiency. There is a defensible position that AI is a method that belongs inside problem-focused research centers rather than a research focus area in its own right, and Lehigh's URC structure is consistent with that view. But the choice has consequences for how AI research at

Lehigh is funded, organized, and visible. The Engineering, I-DISC, and college-level structures documented in Units 1, 6, and 2-5 carry the AI research load; the Office of Research provides infrastructure but not direction.

The internal seed funding pause (June 2025) is a significant short-term constraint. The replacement \$20,000 proposal-development programs are sized for grant-writing support rather than for substantive seed research, and the Accelerator program's \$250,000 ceiling, which was the office's vehicle for funding ambitious multi-investigator initiatives, is unavailable as of the snapshot date. The contradiction between contracting internal seed capacity and growing external sponsored expenditures suggests that growth is driven by federal awards, foundation grants, and industry partnerships rather than by institutional discretionary investment. For AI research specifically, this means that any large multi-PI AI initiative would need to be funded externally from the start, since no internal vehicle of the relevant scale is currently active.

The Research Misconduct Policy effective January 1, 2026 is recent. The publicly posted policy and FAQs do not appear to address several AI-specific scenarios: fabricated data produced by generative tools, undisclosed AI authorship of research products, citations generated by AI hallucination, or peer review using generative AI. Whether the policy will be interpreted to cover these situations through existing categories (fabrication, falsification, plagiarism) or whether the office will issue supplementary guidance is not stated in publicly available materials.

Approved AI services list opacity is a documentation gap. The IRB guidance refers to "a selection of contracted AI services" Lehigh offers and to services "acceptable for Class II data," but the list itself is not posted on the VPR site. Researchers wanting to know which specific tools they can use in human subjects research must infer the answer from the LTS tool inventory documented in Unit 8. A consolidated list maintained jointly by the VPR office and LTS would make the IRB guidance materially easier to apply.

The relationship between the RTA and AI-specific translation work is partial. McAndrew's DECISIONCAST is the clearest AI translation case, and Namboodiri's MABLE has AI components, but the broader STRP portfolio is dominated by non-AI translation projects. The RTA mechanism is theoretically available to AI translation work and the doctoral courses are open to AI-research students, but no public RTA programming has explicitly targeted AI translation as a portfolio area.

Finally, Jagota's public statements as VPR have not addressed AI as a strategic research theme. His office's communications priorities — research integrity, R1 status, the URC initiative, the Research Symposium, sabbatical fellows announcements — do not include AI framing. The institutional voice on AI research direction at Lehigh comes principally from Provost Urban (Unit 7), Vice Provost Reihman (Unit 8), and the dean's offices in the colleges, not from the VPR office.

Cross-References

- **Unit 1 (Engineering):** Bocchini (Director, CCMR), Rahneemoonfar (AI-Driven Damage Assessment), and Davison (CSE chair, CCMR affiliate) are all P.C. Rossin College faculty whose AI-relevant research is structured by CCMR under VPR oversight. Smith Fund for

Research and Innovation in Science and Engineering provides partial funding to internal grants in natural sciences and engineering.

- **Unit 2 (Arts and Sciences):** ORSP administers external sponsored funding for CAS faculty, including Chinedu Ekuma's \$800,000 U.S. Department of Energy Office of Advanced Scientific Computing Research grant for advanced computational materials modeling (Physics, with co-PIs Lifang He in CSE and Akwum Onwunta in ISE). The IRB AI guidance applies to CAS human subjects research using generative AI tools.
- **Unit 3 (Business):** ORSP administers external sponsored funding for College of Business faculty, including Jennifer Ryan's NSF CAREER award and her active NSF co-PI grant (Frank L. Magee Professor and DATA Department Chair, joined Lehigh July 2025).
- **Unit 4 (Health):** Jagota served as Associate Dean of Research for the College of Health from 2021 until taking the VPR role in July 2022. Namboodiri's NSF-funded accessibility research (including the MABLE STRP) is administered through the RTA. McAndrew's DECISIONCAST clinical decision-support tool is the most explicitly AI-focused translation project supported by the RTA infrastructure.
- **Unit 5 (Education):** The Contract and Grant Specialist whose portfolio covers the College of Education sits in ORSP. Lee Kern and George DuPaul (College of Education) co-lead the PEAK STRP within the RTA. Lee Kern also served as vice chair of the search committee that selected Jagota as VPR.
- **Unit 6 (I-DISC):** The Catastrophe Modeling group originated as a research initiative under I-DISC before becoming the institutional basis for CCMR's URC designation. Many CCMR-affiliated faculty (Bocchini, Davison, Casagrande, Conus, Yang) are also I-DISC affiliates. The IUCRC planning grant cites machine learning as one of the team's areas of strength.
- **Unit 7 (Provost):** The VPR office reports to the Provost. The Future Maker Grant: AI Enhancement (October 2025) is administered through the Office of Strategic Planning & Initiatives under VP Mark Erickson, not through the VPR office, and is documented in Unit 7. Dominic Packer holds dual roles as Associate Vice Provost for Research and Vice Provost for Educational Innovation and Assessment, bridging the two clusters. Packer is the public-facing voice on the URC initiative and on the draft AI principles presented at the November 2025 Town Hall.
- **Unit 8 (LTS):** The IRB AI guidance ties acceptable AI tool selection to "Lehigh contracted AI services" administered by LTS — the LLM Gateway, Gemini, NotebookLM, and the Class II data classification framework. Researchers using AI in human subjects work are routed by the VPR guidance to the LTS-administered tool inventory. The Contract and Grant Specialist whose portfolio includes LTS sits in ORSP.
- **Part I, Section II (Policy Infrastructure & Institutional Alignment):** The *Guidance: Generative AI and Human Subjects Research* is catalogued in Part I as one of five publicly posted AI policy artifacts and is described as the only Lehigh policy document that addresses generative AI directly with operational specificity.
- **Part I, Section VI (Research Governance & Ethics):** The entire section is built on the VPR office structure, the IRB AI guidance, the Research Misconduct Policy's AI-silence, the

three-tier internal seed funding pause, the URC designation instrument (CCMR/CDAT/ACES), and the RTA as the primary translation funding vehicle.

- **Part I, Section VIII (Infrastructure & Strategic Investment Signals):** Lehigh's February 2025 Carnegie R1 designation, the FY2023 expenditures of \$56.3 million and FY2024 expenditures of \$58.7 million, the *Inspiring the Future Makers* commitment to doubling research footprint, and the NSF TRIPODS Institute and NSF Accelerating Research Translation awards are administered through the VPR office and ORSP.

Sources

Office of the Vice Provost for Research home page — describes VPR role, office structure, and reporting relationships
<https://research.lehigh.edu>

Our Offices — VPR — describes the VPR's stem of offices including Research Development, Research Integrity, IRB, IACUC, the Conflict of Interest in Research Committee (CIRC), ORSP, Postdoctoral Affairs, and OTT
<https://research.lehigh.edu/about-vpr-team>

Handbook: External Sponsored Funding: Proposal Development and Submission — ORSP review and approval requirements, five-business-day pre-submission review window
<https://research.lehigh.edu/explore-trainings-education/research-handbook/handbook-external-sponsored-funding-proposal>

LIRA System: Submit Sponsored Research Proposal — proposal submission system and disclosure process
<https://research.lehigh.edu/proposal-contract-submissions/lira-system-submit-sponsored-research-proposal>

Submit Internally Funded Research Proposal: InfoReady System — internal grants portal entry point
<https://lehigh.infoready4.com/>

Research and Graduate Studies — Engineering — describes IRBNet platform as the submission system for IRB and IACUC protocols at Lehigh
<https://rossinadmin.lehigh.edu/graduate/grad-handbook/research-and-graduate-studies>

Office of the VPR announcements — announcement of new Research Misconduct Policy effective January 1, 2026, two targeted internal seed fund programs (\$20,000 each, including the Fund for Proposal Development), and the 2026-2027 University Sabbatical Fellows announcement
<https://research.lehigh.edu/announcements>

Guidance: Generative AI and Human Subjects Research — VPR's primary AI policy artifact, addressing IRB applications, de-identification, consent disclosure, AI translation limits, approved Lehigh contracted AI services for Class II data, and verification of AI-derived conclusions
<https://research.lehigh.edu/policies-guidance-forms/guidance-generative-ai-and-human-subjects-research>

Policy on the Protection of Human Subjects in Research — Lehigh IRB policy framework, FWA on file with HHS, and the IAA mechanism for multi-site research
<https://research.lehigh.edu/policies-guidance-forms/policy-protection-human-subjects-research>

Inspiring the Future Makers strategy — university strategic plan committing to doubling research footprint and funding within a decade
<https://www2.lehigh.edu/about/future-makers>

Lehigh Named Top-Tier Research Institution by Carnegie — VPR announcement of February 2025 R1 designation, FY2023 expenditures of \$56.3 million, and 94 doctorates awarded
<https://research.lehigh.edu/news/2025-lehigh-named-top-tier-research-institution-carnegie>

Lehigh Advances Into Year Three of Its Strategy With a Focus on Sustaining Success — Helble Town Hall November 2025 covering R1, 50% increase in research expenditures, doubling research footprint goal, Future Maker Grant: AI Enhancement awardees, Packer's draft AI principles

<https://news.lehigh.edu/lehigh-advances-into-year-three-of-its-strategy-with-a-focus-on-sustaining-success>

President Joseph J. Helble: Record Applications, Research Growth and Strengthening Community — March 2026 Community Conversation with 55% four-year research expenditure growth and decade-doubling commitment

<https://news.lehigh.edu/president-joseph-j-helble-record-applications-research-growth-and-strengthening-community>

Anand Jagota Named Vice Provost for Research — Lehigh News, June 2022 announcement of Jagota's appointment effective July 28, 2022, with biographical detail covering his bioengineering tenure, founding chair role, and DuPont background

<https://news.lehigh.edu/anand-jagota-named-vice-provost-for-research>

Anand Jagota named Vice Provost of Research — The Brown and White, September 2022, additional context on Jagota's role and his predecessor Alan Snyder's ten-year VPR tenure

<https://thebrownandwhite.com/2022/09/06/anand-jagota-named-vice-provost-of-research/>

Anand Jagota — Lehigh University News tag page — chronological listing of news mentions including March 2021 appointment as Associate Dean of Research for College of Health

<https://news.lehigh.edu/tags/anand-jagota>

Staff Directory — VPR — listing of Cynthia Kane (Associate Vice Provost, ORSP), Ellen Klein (Research Integrity Manager covering fCOI, IRB, IACUC), Dominic Packer (Associate Vice Provost for Research), and Contract and Grant Specialists by department

<https://research.lehigh.edu/staff-directory>

Cynthia Kane — VPR staff page

<https://research.lehigh.edu/staff/cynthia-kane>

Dominic Packer — VPR staff page identifying his Associate Vice Provost for Research role

<https://research.lehigh.edu/staff/dominic-packer>

Vice Provosts — Provost Office page listing Packer's role as Vice Provost for Educational Innovation and Assessment and Senior Advisor to the Vice Provost for Research, alongside Jagota and other vice provosts

<https://provost.lehigh.edu/vice-provosts>

Lehigh's Newest Summer Initiative: RTA's Summer Fellowship — RTA news article describing inaugural Summer Internship orientation May 28, 2025, led by Neal Simon and Vassie Ware, with Coulter presenting program overview as Associate Vice Provost for Research Translation and PI of the NSF ART grant

<https://researchtranslationaccelerator.lehigh.edu/news/2025-lehighs-newest-summer-initiative-rtas-summer-fellowship>

OTT protects intellectual property — Brown and White, February 2020, Rick Smith joined OTT in April 2019, OTT files approximately 20 patents per year, OTT is housed in Whitaker Laboratory

<https://thebrownandwhite.com/2020/02/12/lehigh-office-of-technology-transfer/>

Contact Us — Office of Technology Transfer — Rick Smith director listing

<https://techtransfer.lehigh.edu/contact-us-0>

About RTA Courses — one-credit doctoral courses funded by NSF ART, open to all five colleges, no tuition charged, registration through Brianne Lisk for overrides

<https://researchtranslationaccelerator.lehigh.edu/about-rta-courses>

President Joseph J. Helble: "Higher Education Has Never Been More Important" — December 2024 Community Conversation with FY2024 \$58.7M research expenditure figure and 99 doctorates awarded

<https://news.lehigh.edu/president-joseph-j-helble-higher-education-has-never-been-more-important>

Lehigh Named Top-Tier Research School by Carnegie Classification — Lehigh News article on R1 designation, only Lehigh Valley R1, one of seven in Pennsylvania, 187 R1 institutions nationwide

<https://news.lehigh.edu/lehigh-named-top-tier-research-school-by-carnegie-classification>

Lehigh's First University Research Center to Focus on Catastrophe Modeling — describes URC structure, 50% faculty research effort commitment, Packer's role as Associate Vice Provost for Research articulating URC goals

<https://news.lehigh.edu/lehighs-first-university-research-center-to-focus-on-catastrophe-modeling>

Catastrophe Modeling — I-DISC research page documenting the Catastrophe Modeling group's I-DISC origins with affiliated faculty Bocchini, Casagrande, Conus, Davison, and Yang

<https://idisc.lehigh.edu/research/catastrophe-modeling>

Center for Catastrophe Modeling and Resilience Accelerates Search for Solutions — BusinessWire, November 2024, describes CCMR using "advanced technology and analytics, including Artificial Intelligence" and the country's only graduate degree program in catastrophe modeling, plus the October 2024 Climate, Equity and Resilience workshop

<https://www.businesswire.com/news/home/20241125965321/en/Center-for-Catastrophe-Modeling-and-Resilience-Accelerates-Search-for-Solutions>

Rice and Lehigh partner with global industry leaders to revolutionize catastrophe modeling — Rice News, February 2026, CERCat semiannual meeting, Rahnemoonfar's AI-Driven Damage Assessment project, six projects underway, Industry Advisory Board with nine partner companies

<https://news.rice.edu/news/2026/rice-and-lehigh-partner-global-industry-leaders-revolutionize-catastrophe-modeling>

Lehigh's Center for Catastrophe Modeling and Resilience Receives NSF Planning Grant to Pursue Industry-University Cooperative Research Center — CCMR's NSF planning grant for IUCRC formation, application cites machine learning as a team strength

<https://news.lehigh.edu/lehighs-center-for-catastrophe-modeling-and-resilience-receives-nsf-planning-grant-to-pursue>

Lehigh University's Strategic Development — coverage of CDAT and ACES as the second and third URCs alongside CCMR

<https://www.forwardpathway.us/lehigh-universitys-strategic-development-opportunities-and-challenges-in-r1-status-research-innovation-and-campus-revitalization>

About Us — RTA — Lehigh's Research Translation AccelURator funded by a four-year, \$6 million NSF ART award, supporting seed projects, translational education curricula, and infrastructure spanning all five colleges

<https://researchtranslationaccelurator.lehigh.edu/about-us>

STRP — Seed Translational Research Project — RTA STRP page documenting five projects since February 2024 inception, named PIs (Lee Kern, Javad Khazaei, John Fox, Doug Spengel, George DuPaul, Rosa Zheng, Vinod Namboodiri), and project descriptions for HIX-Desal wastewater, PEAK ADHD program, MABLE accessible mapping, SCADA grid resilience, and underwater acoustic modems

<https://researchtranslationaccelurator.lehigh.edu/translational-research-projects>

Faculty Innovation Grants (FIG) — program description, \$35,000 cap, "on hold" notice as of June 9, 2025

<https://research.lehigh.edu/find-funding/internal-funding-opportunities/faculty-innovation-grants-fig>

Collaborative Research Opportunity (CORE) Grants — \$70,000 cap, two-faculty minimum, Smith Fund for Research and Innovation in Science and Engineering as partial funding source

<https://research.lehigh.edu/find-funding/internal-funding-opportunities/collaborative-research-opportunity-core-grants>

Accelerator Grant — \$250,000 over two years, three-faculty minimum, Smith Fund partial funding, \$5,000 summer salary cap added August 2023

<https://research.lehigh.edu/find-funding/internal-funding-opportunities/accelerator-grants>

Internal Funding Opportunities — VPR internal grants overview listing the Faculty Research Grants (FRG, up to \$6,000), Faculty Innovation Grants (FIG, up to \$35,000), Collaborative Research Opportunity (CORE, up to \$70,000), and Accelerator (up to \$250,000) programs; page notes the internal grants program is on hold until further notice (as of June 9, 2025)

<https://research.lehigh.edu/find-funding/internal-funding>

Research Futures — Lehigh University News announcement of the one-time \$20 million research investment under Provost Pat Farrell, covering faculty hiring, major research opportunities, community-building and ideation, college research support office startup, and infrastructure

<https://news.lehigh.edu/research-futures>

2025 Lehigh University Research Symposium — VPR-administered annual research showcase

<https://research.lehigh.edu/2025researchsymposium>

Paolo Bocchini LinkedIn — public posts documenting CCMR and CERCat participation in the February 2026 RAA Cat Risk Conference in Orlando, with breakout sessions on industry-academic collaborations and partnership representation from Everest Re, Arch, and Chubb

<https://www.linkedin.com/in/paolobocchini/>

Lehigh P.C. Rossin College of Engineering and Applied Science News — *\$1M NSF grant funds Lehigh cross-disciplinary team converging on pandemic prediction and prevention research* documenting NSF Predictive Intelligence for Pandemic Prevention (PIPP) Phase I Award #2200066 with Vice Provost for Research Anand Jagota as PI, the 13-faculty co-investigator team spanning four colleges (including Marsh, Bocchini, Cheng, McAndrew, Sean Daley, Christine M. Daley, Pacheco, and Arrington-led team-science meta-research), Geisinger as research and clinical partner, and members of the Cheyenne River Sioux and Prairie Band Potawatomi tribes

<https://engineering.lehigh.edu/news/article/1m-nsf-grant-funds-lehigh-cross-disciplinary-team-converging-pandemic-prediction-and>