

Lucas J. Wiese

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github.com/lucasjwiese scholar.google.com/citations?user=1r-6nrUAAAAJ

SUMMARY

PhD Candidate investigating AI ethics & safety, AI education & literacy, decision-making, and psycholinguistic patterns for measurement in human-AI interactions. Across my research, I pay attention to models of educational and moral theory, and am interested in how discourse theory shapes the decision-making processes. Have 4+ years of research experience in interdisciplinary collaborative teams, project management, and leadership. Expertise in synthesizing technical, social, and human-centered perspectives for mixed-methods research.

EDUCATION

PhD	Purdue University , Technology	GPA: 4.00/4.00
	• Certifications: Advanced Methodology	May 2026
MS	Purdue University , Computer & Information Technology	Dec 2024
	• "Factors That Promote and Inhibit Advanced Technology Adoption in Small and Medium Manufacturing Firms"	
BA	Purdue University , Philosophy	GPA: 3.76/4.00
BS	Purdue University , Cybersecurity	May 2022
	• Certificate: Cornerstone for interdisciplinary communication and creative thinking	

PUBLICATIONS

1. **Lucas J. Wiese**, Sonali Subbu Rathinam, Daniel S. Schiff, Matthias Oschinski, Bryan DeWitt. (2025). **AI Ethics and Governance in the Job Market: Trends, Skills, and Sectoral Demand**. *IEEE Transactions on Technology and Society*. <https://doi.org/10.1109/TTS.2025.3567143>
2. **Lucas J. Wiese**, Daniel S. Schiff. (2025). **Discourse Before Doctrine: The Category Error at the Heart of AI Ethics Education**. *Forthcoming | Handbook on Critical Studies of Artificial Intelligence and Education*
3. **Lucas J. Wiese**, Indira Patil, Daniel S. Schiff, Alejandra J. Magana. (2025). **AI Ethics Education: A Systematic Literature Review**. *Computers & Education: Artificial Intelligence*, 8, 100405.
4. **Lucas J. Wiese**, Alejandra J. Magana, Khalil El Breidi, Ali Shakouri. (2025). **Factors That Promote and Inhibit Advanced Technology Adoption in Small and Medium Manufacturing Firms**. *Sustainability*. 17(7), 2981.
5. **Lucas J. Wiese**, Daniel S. Schiff, Tatiana Ringenberg, Alejandra J. Magana. (2025). **Reliable LLM Analysis Workflow as a Topic Modeling Alternative: Case Study on the Norms of AI Professionals**. *Under Review*
6. **Lucas J. Wiese**, Hector E. Will Pinto, Alejandra J. Magana. (2024). **Undergraduate and Graduate Students' Conceptual Understanding of Model Classification Outcomes Under the Lens of Scientific Argumentation**. *Computer Applications in Engineering Education*
7. **Lucas J. Wiese**, Alejandra J. Magana. (2024). **Teaching Applied Ethics to Students by Encouraging Intuitive Reflection and Deliberate Discourse**. *2024 ASEE Annual Conference & Exposition*
8. **Lucas J. Wiese**, Alejandra J. Magana. (2024). **A Department's Syllabi Review for LLM Considerations Prior to University-standard Guidance**. *2024 ASEE Annual Conference & Exposition*
9. Eunseob Kim, **Lucas J. Wiese**, Hector Will Pinto, Alejandra J. Magana, Martin Jun. (2023). **An Experiential Learning Approach to Industrial IoT Implementation of Smart Manufacturing through Coursework and University-Industry Partnerships**. *Journal of Engineering Technology*. 40(2), 8-18
10. Xiaojin Liu, Hugo Castellanos, **Lucas J. Wiese**, Alejandra J. Magana. (2023). **Exploring Machine Learning Methods to Identify Patterns in Students' Solutions to Programming Assignments**. *2023 IEEE FIE*

11. Ted J. Fiock, Jonathan Mohn, John Mack, Charilaos Mousoulis, Eunseob Kim, **Lucas J. Wiese**, Martin Jun, Alejandra J. Magana, Ali Shakouri. (2023). **Data Analytics Short Courses for Reskilling and Upskilling Indiana's Manufacturing Workforce**. *ASEE Annual Conference & Exposition*
12. **Lucas J. Wiese**, Daniel S. Schiff, Alejandra J. Magana. (2023). **Being Proactive for Responsible AI: Analyzing Multiple Sectors for Innovation via Systematic Literature Review. (extended abstract)**. *IEEE-Ethics 2023*

WORK EXPERIENCE

- Purdue University**, Research Scientist Aug 2022 – present
 Researcher for the Research on Computing in Engineering and Technology Education Lab (ROCKETEd) and the Governance and Responsible AI Lab (GRAIL).
- Leadership in interdisciplinary collaborative teams on AI, ethics, education, and LLM safety and alignment
 - Written 3 research proposals and awarded funding for 2 projects as lead researcher
 - Manage lab operations for ROCKETEd (CIT) and PhD affiliate for GRAIL (Political Science)
 - Consulted on human, ethics, and safe design principles for AI in the manufacturing sector
 - Mentored multiple undergraduate and junior graduate students in their research agenda
- Purdue University**, Instructor Aug 2023 – present
- Lecturer as guest domain expert in *Applications in Data Science* (2x), *Cyberlaw and Ethics* (2x), and *Policy, Regulation, and Globalization in IT* (1x)
 - Designed course material, instructional pedagogy, and active learning assignments on AI ethics, data ethics, decision theory, philosophy of AI, and career trajectories of AI in the workforce
- Entara Corporation**, IT/Systems Engineer Resident Chicago, IL (remote)
 Jan 2021 – Aug 2021
- Most consecutive 5-star client ratings at firm. Fast-paced problem solving environment. Computer and network engineering servicing client needs in a multi-industry environment
- RSA Security**, Shift Manager, Sr. Security Anti-fraud Analyst West Lafayette, IN
 Jan 2019 – Jan 2021
- Managed global incident response environment. Mitigated phishing, malware, IP infringement, and DNS attacks with international security team
- Purdue University**, Undergraduate Research Assistant 2019-2020 & 2021-2022
- Conducted needs assessment on well-being of digital forensics professionals to promote response capacity for cybercrime
 - Developed educational research activity to understand the mental models behind learning neural network architecture
- Man, Death, Ethics**, Copyeditor on Book Jan 2022 – May 2022
 Authored by W. W. Wasielewski, published by Ridero
- Wyzant, Online Professional Tutoring**, Cybersecurity and IT Tutor remote
 Jan 2022 – May 2022
- Principled tutoring and instructional material for U.S.-based graduate and undergraduate students

GRANTS AND AWARDS

- Innovation Grant** 2024
 Awarded by Purdue Office of the Provost, Innovation Hub. No. IH-IG-24007. Lead researcher and designer for *Applied Ethics in AI within the Context of Cybersecurity Education*. **\$40,000**.
- High-impact Review Paper Grant** 2024
 Awarded by Purdue Office of Research. Lead researcher and project coordinator for *AI Ethics Education: A Systematic Literature Review*. **\$10,000**.
- Dean's Travel Grant** 2024
 Awarded by Purdue Polytechnic Institute. **\$300**.

CIT Graduate Travel Grant	2024
Awarded by Purdue Polytechnic Institute. \$250.	
Best Paper	2023
Awarded by Purdue Literary Awards category in 'exploring the impact of science and technology on society and culture'. Wrote <i>Reframing Ethics for Societal Change: Opening Ethics to Deploy Ethical Reasoning</i> . \$100	
Best Paper	2023
Awarded by American Society for Engineering Education division manufacturing. Second author for <i>An Experiential Learning Approach to Industrial IoT Implementation of Smart Manufacturing through Coursework and University-Industry Partnerships</i> .	
Undergraduate Research Scholarship	2020
Awarded by Purdue Office of Undergraduate Research. Project entitled <i>Needs Assessment on the Mental Health and Well-being of Digital Forensics Investigators and Examiners in Law Enforcement</i> . \$500.	

TEACHING AND SERVICE

CNIT 484 - Applications in Data Science , Guest Instructor	Spring 2025, Spring 2024
<ul style="list-style-type: none"> Instructional design, lecture, and activity on AI ethics, ethical data acquisition and management, and decision-making for AI developers 	
CNIT 371 - Cyberlaw and Ethics , Guest Instructor	Fall 2024, Spring 2024
<ul style="list-style-type: none"> Instructional design, lecture, and activity on AI ethics, history, and philosophy of AI, AI in the workforce, ethical decision-making with AI technology 	
CNIT 320 - Policy, Regulation, and Globalization in IT , Guest Instructor	Fall 2023
<ul style="list-style-type: none"> Instructional design, lecture, and activity on AI ethics and professional AI ethical problem-solving 	
Problematizing Education and Digital Technology , Speaker	Spring 2025
<ul style="list-style-type: none"> Presentation on "Teaching the Ethics of AI" to the local community. Co-author on global report on Problematizing Education and Digital Technology 	
ROCKETED Lab , Student Lab Manager & Graduate Researcher	Fall 2022 - Present
<ul style="list-style-type: none"> Doctoral researcher, project lead, and collaborator in the Research on Computing in Engineering and Technology Education Lab Mentor for undergraduate and junior graduate students Manage student lab operations 	
GRAIL Center , PhD Affiliate and Project Lead	Fall 2022 - Present
<ul style="list-style-type: none"> Doctoral researcher, project lead, and collaborator in the university center, Governance and Responsible AI Lab Mentor for undergraduate and junior graduate students 	
NIST AISIC , Contributor	Spring 2024 - Present
<ul style="list-style-type: none"> Member of NIST AI Safety Institute Consortium on behalf of GRAIL Contribute to the Risk Management for Generative AI task force 	

PRESENTATIONS

talk <i>Teaching the Ethics of AI: Guiding the Next Generation</i> . Critical Studies of Education and Technology 2025: Problematizing Education and Digital Technology. West Lafayette, IN. (February 19, 2025).
talk <i>Reframing Ethical Action in AI Education : An Exploratory Study for Discourse as a Measure and Method</i> . At 2024 Society for Ethics Across the Curriculum. Clemson, SC (October 4, 2024)
talk <i>Teaching Applied Ethics to Students by Encouraging Intuitive Reflection and Deliberate Discourse</i> . At 2024 ASEE Annual Conference & Exposition. Portland, OR (June 26, 2024).
talk <i>A Syllabi Review of ChatGPT in the Classroom Prior to University-standard Guidance</i> . At 2024 ASEE Annual Conference & Exposition. Portland, OR (June 24, 2024).

poster *Defending Ethics Positions in Professional AI dilemmas : Students and a Pedagogical Framework*. At Purdue RIA Future of Work and Learning Spring 2024 Student Poster Symposium. West Lafayette, IN (April 18, 2024).

talk *Applied Ethics Goes Deeper Than Ethics-in-Practice : A Framework for Ethics Education and Action*. At 2024 Association for Practical and Professional Ethics conference. Cincinnati, OH (Feb 24, 2024).

poster *An Experiential Learning Approach to Industrial IoT Implementation of Smart Manufacturing through Coursework and University-Industry Partnerships*. At 2023 ASEE Annual Conference & Exposition. Baltimore, MD (June 26, 2023).

poster *Data Analytics Short Courses for Reskilling and Upskilling Indiana's Manufacturing Workforce*. At 2023 ASEE Annual Conference & Exposition. Baltimore, MD (June 26, 2023).

poster *An Experiential Learning Approach to Industrial IoT Implementation of Smart Manufacturing through Coursework and University - Industry Partnerships*. At SMART Industry Day 2023. Purdue Birck Nanotechnology Center (May 11, 2023).

talk *An Experiential Learning Approach to Industrial IoT Implementation of Smart Manufacturing*. At SMART Industry Day 2023. Purdue Birck Nanotechnology Center (May 11, 2023).

poster *Being Proactive for Responsible AI : Analyzing Multiple Sectors for Innovation via Systematic Literature Review*. At IEEE Ethics - 2023. West Lafayette, IN (May 19, 2023).

poster *A Computational Cognitive Apprenticeship to Promote IoT and AI Learning for Workforce Development in Smart Manufacturing*. At Purdue RIA Future of Work and Learning Spring 2022 Student Poster Symposium. West Lafayette, IN (April 26, 2022).

poster *A Needs Assessment on the Mental Health for Digital Forensic Examiners*. At 2021 Purdue Undergraduate Research Conference. Virtual (November 15, 2021).

REVIEWER

- Frontiers in Education (2025)
- IEEE Technology & Society Magazine (2024)
- European Journal of Engineering Education (2024)
- Computer Applications in Engineering Education (2024)
- 2024 American Society for Engineering Education Annual Conference (2023)