Lucas J. Wiese

lucasjwiese@gmail.com   (216) 978-6171   www.lucaswiese.com   linkedin.com/in/lucaswiese
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. **AI Ethics and Governance in the Job Market: Trends, Skills, and Sectoral Demand**. *Under Review | omitted*

2. *Lucas J. Wiese*, Daniel S. Schiff. (2025). **AI Ethics Education Is Not About AI Ethics: Centering Students, Not Topics**. *Forthcoming | Handbook on Critical Studies of AI 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)
- Most consecutive 5-star client ratings at firm. Fast-paced problem solving environ-   Jan 2021 – Aug 2021
  ment. Computer and network engineering servicing client needs in a multi-industry
  environment

RSA Security, Shift Manager, Sr. Security Anti-fraud Analyst   West Lafayette, IN
- Managed global incident response environment. Mitigated phishing, malware, IP   Jan 2019 – Jan 2021
  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
- Principled tutoring and instructional material for U.S.-based graduate and under-   Jan 2022 – May 2022
  graduate 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 *Reframing Ethics for Societal Change: Opening Ethics to Deploy Ethical Reasoning*. **$100**

Best Paper 2023

Awarded by American Society for Engineering Education division manufacturing. Second author for *An Experiential Learning Approach to Industrial IoT Implementation of Smart Manufacturing through Coursework and University-Industry Partnerships.*

Undergraduate Research Scholarship 2020

Awarded by Purdue Office of Undergraduate Research. Project entitled *Needs Assessment on the Mental Health and Well-being of Digital Forensics Investigators and Examiners in Law Enforcement*. **$500**.

TEACHING AND SERVICE

CNIT 484 - Applications in Data Science, Guest Instructor Spring 2025, Spring 2024
- 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
- 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
- Instructional design, lecture, and activity on AI ethics and professional AI ethical problem-solving

Problematizing Education and Digital Technology, Speaker Spring 2025
- 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
- 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
- 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
- Member of NIST AI Safety Institute Consortium on behalf of GRAIL
- Contribute to the Risk Management for Generative AI task force

PRESENTATIONS

talk *Teaching the Ethics of AI: Guiding the Next Generation*. Critical Studies of Education and Technology 2025: Problematizing Education and Digital Technology. West Lafayette, IN. (February 19, 2025).

talk *Reframing Ethical Action in AI Education : An Exploratory Study for Discourse as a Measure and Method*. At 2024 Society for Ethics Across the Curriculum. Clemson, SC (October 4, 2024)

talk *Teaching Applied Ethics to Students by Encouraging Intuitive Reflection and Deliberate Discourse*. At 2024 ASEE Annual Conference & Exposition. Portland, OR (June 26, 2024).

talk *A Syllabi Review of ChatGPT in the Classroom Prior to University-standard Guidance*. At 2024 ASEE Annual Conference & Exposition. Portland, OR (June 24, 2024).

poster *Defending Ethics Positions in Professional Al 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 Al 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)