Maria Milkowski — PhD Student

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Education

PhD in Computer Science and Engineering - University of Notre Dame, IN — Aug 2024 – Present
- **Specialization:** Artificial Intelligence
- **Advisor:** Tim Weninger

BS in Computer Science - Seattle University, WA — Sept 2020 – June 2024
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Object Oriented Design, Refactoring and System Maintenance, Game Design

Research Experience

Graduate Research Assistant | Weninger Lab - University of Notre Dame — Jan 2025 – Present
- Conducted a user study investigating framing and priming theory to determine if they influence subsequent search terms and user behavior, with and emphasis on potential political influences

Graduate Research Assistant | EPOCH Lab - University of Notre Dame — Aug 2024 – Jan 2025
- In collaboration with the St. Joseph County Department of Health and Lucy Family Institute, studied youth vaping habits to find effective technological prevention and cessation methods

Undergraduate Research Assistant | Seattle University — June 2023 – June 2024
- Implemented and investigated Utilitarian ethical model into societal simulation *Sugarscape*
- Created a new wholistic measure of societal success and used it to determine the benefit of economic and ethical models

Publications

Youth Vaping in the Digital Age: A Systematic Review of Technological Interventions for Prevention and Cessation, ACM GROUP '25 — Jan 2025
Milkowski, M., Olesk, J., Martel Asfura, D., Barco, C., Cervera, C., Wachira, M., Sisk, M., Balke, A., Purushotham, D., Williams, R, Badillo-Urquiola, K.

Leveraging Ethics for Autonomous Agent Decision-Making, Seattle U CS Seminar Series 2023 — Oct 2023
Kremer-Herman, N., *Milkowski, M.*

Projects

Tech Ethics Consultant | Seattle U School of Law — July 2024
- Lectured law students on relevant computer science topics, provided feedback on student projects
- Advised course creators on creating a tech ethics course for law and graduate computer science students

Admitted Student Mentor | Seattle University — June 2024

Pro Bono Project Manager | iMorgan Medical — December 2023
- Managed small medical image tagging project that within its first iteration had over 90% accuracy.
- Automates the process of tagging medical images and sorting the tags into more general classifications using C# and tesseract OCR

Membership + Mentorship Chair | Society of Women in Engineering - Seattle U Chapter — June 2022 - June 2023

Industry Experience

Project Manager | F5 — June 2024 – Aug 2024
- Coordinated with directors, program managers, and others as needed to organize a technology migration of acquired companies to the F5 system

Software Engineer - Capstone | F5   Sept 2023 – June 2024
- Acted as project manager to create an AI to guide members toward self-help materials, resulting in less maintenance cards being submitted

Data Collection Associate | Q-Analysts   June 2022 – Sept 2023
- Guide research participants for data collection sessions in a secured office to perform captures, prep and maintain equipment, and ensure security of devices. Collected and stored confidential client and participant information
- Filter data and run quality assurance tests on multiple AR and VR devices and their collected data

Teaching Experience

Teaching Assistant | University of Notre Dame   August 2024 – Present
- Fall 2024 - Database Systems Concepts - Tim Weninger
- Spring 2025 - Human-Computer Interaction - Annalisa Szymanski

Skills

Languages: C++, C#, Python, SQL, HTML/CSS, F, Assembly, Java, C

Research Methods: Interviewing, Thematic Analysis