# Maria Milkowski

## PhD Student

### **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**

A Little Bit Goes a Long Way: Modeling Universal Basic Income for Noncooperative Artificial Agents, IEEE Ethics '25

June 2025

*Milkowski, M.*, Gupta, A., Kremer-Herman, N.

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

Oct 2023

Series 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 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

- Spring 2025 Human-Computer Interaction Annalisa Szymanski
- Fall 2024 Database Systems Concepts Tim Weninger

#### **Skills**

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

Research Methods: Interviewing, Thematic Analysis