

KERI MALLARI

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EDUCATION

University of Washington
PhD, Human Centered Design and Engineering

September 2019 - June 2025

CUNY - Lehman College
Bachelor's, Computer Science and Mathematics

August 2015 - May 2019

PROFESSIONAL EXPERIENCE

Microsoft
Applied Scientist

Redmond, WA, USA
May 2024 - August 2024

- Curated a new dataset, applied key feature extraction, and data augmentation techniques to supplement existing data.
- Fine-tuned a pretrained model on a classification task and performed cross validation to evaluate model performance.
- Collaborated with the internal team to present model performance and key areas for improvement such as feature thresholds and effects of data distribution.

Microsoft
Researcher

Redmond, WA, USA
May 2022 - August 2022

- Conducted thematic analysis on data from interviews and observations to identify key insights.
- Analyzed survey data, utilizing Python and R for data cleaning, analysis, and visualization.
- Performed non-parametric aligned rank transform analysis on survey results to evaluate prototype performance, focusing on user preference and perceived ease of effort and performance

Twitch
Applied Scientist

San Francisco, CA, USA
July 2021 - January 2022

- Curated a dataset of live stream chat data using SQL to develop an analytics pipeline for live streamers.
- Applied text embeddings on chat data and applied clustering techniques to identify recurring topics or conversational trends

Microsoft
Researcher

Remote
June 2020 - September 2020

- Implemented an intelligent document processing tool that specializes on low quality pictures of documents.
- Leveraged Azure Cognitive Services to improve document processing and data retrieval accuracy.

Microsoft
Researcher

Redmond, WA, USA
June 2019 - August 2019

- Designed and executed a study to assess user interactions with simulated algorithmic models. Analyzed qualitative data through thematic analysis to understand how user expertise influences AI-assistant effectiveness. Utilized R and Python for quantitative analysis to evaluate model performance and user responses

University of Washington
Researcher

Seattle, WA, USA
September 2019 - Present

- **Developing Tools to Support Effective Feedback Exchange:** Developed a full-stack chatbot tool for streamers using React, Node.js, Express, and PostgreSQL, enabling efficient feedback collection and data management. Integrated large language models (LLMs) to enhance chatbot interactions, providing dynamic and adaptive feedback tailored to user inputs.

SKILLS

Data: R, Tidyverse, Dplyr, Ggplot2, Python, Sklearn, SQL, Postgres, Data Science

Software Engineering: React.js, Vercel, Node.js, Express.js, HTML/CSS, JavaScript

Research: Survey, Experiment Design, Machine Learning, Statistical Modeling, Data Science

PUBLICATIONS

- Tan, S., **Mallari, K.**, Adebayo, J., Gordo, A., Wells, M. T., & Inkpen, K. (2024). How Aligned are Generative Models to Humans in High-Stakes Decision-Making?. *arXiv preprint arXiv:2410.15471*.
- Tang, J., Inkpen, K., Junuzovic, S., **Mallari, K.**, Wilson, A., Rintel, S., Cupala, S., Carbary, T., Sellen, A., & Buxton, W (2023). Perspectives: Creating Inclusive and Equitable Hybrid Meeting Experiences. *Computer Supported Cooperative Work (CSCW)*, 1-25
- Inkpen, K., Chappidi, S., **Mallari, K.**, Nushi, B., Ramesh, D., Michelucci, P., ... & Quinn, G. (2022). Advancing Human-AI Complementarity: The Impact of User Expertise and Algorithmic Tuning on Joint Decision Making. In *Special Issue for ACM Transactions on Human-Computer Interaction*.
- **Mallari, K.**, Williams, S., & Hsieh, G. (2021, May). Understanding Analytics Needs of Video Game Streamers. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems* (pp. 1-12)
- **Mallari, K.**, Inkpen, K., Johns, P., Tan, S., Ramesh, D., & Kamar, E. (2020, April). Do I Look Like a Criminal? Examining How Race Presentation Impacts Human Judgement of Recidivism. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (pp. 1-13).

TEACHING EXPERIENCE

Instructor of Record, University of Washington (HCDE)

- Web Technologies (Sep - Dec 2024)

Teaching Assistant, University of Washington Information School (iSchool)

- Undergraduate Project Capstone (Jan - June 2022, 2023, 2024)

Teaching Assistant, University of Washington HCDE

- Physical Prototyping (Jan - Mar 2021, Sep - Dec 2021)
- Designing for Behavior Change (Apr - June 2021)
- UX Prototyping (Sep - Dec 2020, 2022, 2023)

Teaching Assistant, CUNY Lehman College Computer Science

- Programming Methods I & II (2016 - 2017)

Teaching Assistant, CUNY Lehman College Mathematics

- Foundations of Data Science (2016 - 2017)

AWARDS

2021	Twitch Research Fellow - \$10,000
2020	CRA URMD Grad Cohort Workshop Scholar
2019	Microsoft Grace Hopper Conference Scholar
2018	Grace Hopper Conference Scholar
2015 - 2019	Macaulay Honors Scholar, Undergraduate Merit Scholarship