KERI MALLARI Ph.D. <small>(expected 2025)</small>

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Human Computer Interaction (HCI) and *Machine Learning (ML)* Researcher with a strong background in *designing experiments*, conducting *statistical analysis*, and developing *data-driven solutions*.Experienced in improving ML models, analyzing user interactions, and creating inclusive digital experiences.

SKILLS

Data: R (tidyverse, dplyr, ggplot2, etc), Python (sklearn, gensim, etc), SQL
Software: Vercel, Nextjs, React, Node.js, Express, JavaScript, HTML, CSS, Jekyll
Research: Survey, A/B Testing, Experiment Design, Statistical Modeling, Inferential Statistics

EMPLOYMENT EXPERIENCE

Microsoft Research

- *Research Intern* | May - Aug 2024
  Improving proprietary machine learning model performance

- *Research Intern* | May - Aug 2022
  Analyzed qualitative results from user studies, and quantitative results from survey data. Developed features on Unity to improve spatial experience in hybrid meetings for remote, in-person, and VR endpoints.

- *Software Engineer* | Feb - Apr 2022
  Developed dashboards using mapbox.js and RShiny to visualize and narrate the air quality of neighborhoods in Chicago, and to compare the different experiences of these neighborhoods.

Twitch

- *Research Science Intern* | July 2021 - Jan 2022
  Developed creator analytics using streamers' text data by accessing databases using SQL. performed statistical and text analysis using Python, evaluated performance metrics across a range of NLP approaches for actionable insights.

Microsoft Research

- *Research Intern* | June - Sep 2020
  Designed and ran a research study examining users' interaction with three simulated algorithmic models. Analyzed qualitative data using thematic analysis and quantitative results using R and Python

- *Research Intern* | June - Sep 2019
  Utilized Azure's Cognitive Search Architecture leveraging OCR and computer vision to extract information from documents and develop tailored insights to support personal information management.

- *Research Collaborator* | June - Dec 2018
  Designed and ran a research study on Mechanical Turk to examine the impact of different presentations of racial information on human judgment in the context of recidivism. Analyzed statistical results using R and Python.

PUBLICATIONS

- 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

Teaching Assistant, University of Washington INFO
Project Capstone (Undergraduate) — Winter '22 '23 '24, Spring '22 '23 '24

Teaching Assistant, University of Washington HCDE
Physical Prototyping (Graduate) — Winter 2021, Fall 2021
Designing for Behavior Change (Graduate) — Spring 2021
UX Prototyping (Undergraduate) — Fall '20, '22, '23

Teaching Assistant, CUNY Lehman College CS
Programming Methods I & II (Undergraduate) — 2016-2017

Teaching Assistant, CUNY Lehman College MATH
Foundations of Data Science (Undergraduate) — 2016-2017

EDUCATION

University of Washington, College of Engineering
Ph.D. Human Centered Design and Engineering — Expected 2025
M.S. Human Centered Design and Engineering — April 2024

CUNY Lehman College — September 2015 - June 2019
B.S. Computer Science
B.A. Mathematics