

KERI MALLARI

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SKILLS

- **Programming Languages/Technologies:** Python, R, SQL, Linux, JS, TS, AWS, Docker
- **Data and Analytics Packages:** Pandas, Numpy, Scipy, PyTorch, Scikit-learn, Transformers
- **Web Technologies:** React, Next.js, Node, Tailwind, JavaScript, TypeScript, Tailwind, PostgreSQL, Flask

EXPERIENCE

- **Microsoft, AI for Good Lab** May 2024 - August 2024
Applied Science Intern Redmond, WA
 - Trained a proprietary deep learning model for a classification task, employing various hyperparameter optimization and cross-validation techniques to rigorously evaluate and improve performance metrics.
 - Spearheaded the design and implementation of a complementary dataset, leveraging key feature and data augmentation techniques to enhance model performance and robustness on unseen data.
 - Delivered findings to executive-level stakeholders, highlighting key improvements in feature thresholds and data distribution and outlining future steps for further improvement.
- **Microsoft Research** May 2022 - August 2022
Research Intern Redmond, WA
 - 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
 - Conducted thematic analysis on data from interviews and observations to identify key insights.
- **Twitch (Amazon Subsidiary)** July 2021-August 2021
Applied Science Intern San Francisco, CA
 - Conducted end-to-end machine learning research, including building an analytics pipeline using SQL and Python to generate actionable insights for content creators.
 - Leveraged proprietary embedding models and clustering techniques to analyze over 1,000 chat streams, identifying recurring topics and conversational trends to enhance audience engagement.
 - Presented findings to cross-functional teams across design, research, data science, and VP levels to drive data-informed decision-making.
- **Microsoft Research** June 2019 - August 2019
Research Intern Redmond, WA
 - 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 response.
- **Microsoft Research, Data Science Summer School** July 2017- August 2017
Student New York, NY
 - Analyzed student trajectory in the NYC public school system by calculating student performance based on test results, and then tracking individual student performance over the years.
 - Developed predictive models for dropout rates of students in the system and acceptance rates of students in the NYC high school application process.

EDUCATION

- **University of Washington** 2019 - Present
PhD, Human Centered Design and Engineering Seattle, WA
- **CUNY - Lehman College** May 2019
BS in Computer Science, BA in Mathematics Bronx, NY

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

- [S.2] Mallari & Zachry (2025). **Developing A Constructive Feedback Exchange System for Live Stream Communities**. In Preparation for Submission.
- [S.1] Mallari, Adebayo, Inkpen, Wells, Gordo, & Tan (2025). **Generative Models, Humans, Predictive Models: Who Is Worse at High-Stakes Decision Making?**. Manuscript Submitted For Publication.
- [J.2] Tang, Inkpen, Junuzovic, Mallari, Wilson, Rintel, Cupala, Carbary, Sellen, Buxton (2023) **Perspectives: Creating Inclusive and Equitable Hybrid Meeting Experiences**. In *Proceedings ACM Human-Computer Interaction 7, CSCW2, Article 351 (October 2023), 25 pages*. DOI: 10.1145/3610200
- [J.1] Inkpen, Chappidi, Mallari, Nushi, Ramesh, Michelucci, Mandava, Veprek, & Quinn(2023). **Advancing Human-AI Complementarity: The Impact of User Expertise and Algorithmic Tuning on Joint Decision Making**. *ACM Transactions on Computer-Human Interaction 30, 5, Article 71 (October 2023), 29 pages*. DOI: 0.1145/3534561
- [C.2] Mallari, Williams, & Hsieh (2021). **Understanding Analytics Needs of Video Game Streamers**. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21)*. Association for Computing Machinery, New York, NY, USA, Article 337, 1–12. DOI: 10.1145/3411764.3445320
- [C.1] Mallari, Inkpen, Johns, Tan, Ramesh & Kamar (2020). **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 (CHI '20)*. Association for Computing Machinery, New York, NY, USA, 1–13. DOI: 10.1145/3313831.3376257

HONORS AND AWARDS

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| • Doctoral Student Research Grant (\$750) | 2025 |
| • Twitch Research Fellow (\$10,000) | 2021 |
| • CRA URMD Grad Cohort Workshop Scholarship (\$1,400) | 2020 |
| • Microsoft Grace Hopper Conference Scholar (\$1,400) | 2019 |
| • AnitaB.org Grace Hopper Conference Scholar (\$1,400) | 2018 |
| • Macaulay Honors College Scholarship (\$40,000) | 2015-2019 |

TEACHING EXPERIENCE

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| • Teaching Assistant
UW, Information School
◦ Informatics Project Capstone (INFO 490/491) | 2022-2025 |
| • Instructor of Record
UW, Human Centered Design and Engineering
◦ Web Technologies (HCDE 438) | 2024 |
| • Teaching Assistant
UW, Human Centered Design and Engineering
◦ Physical Prototyping (HCDE 539)
◦ Designing for Behavior Change (HCDE 538)
◦ UX Prototyping (HCDE 439) | 2016-2017 |
| • Teaching Assistant
CUNY Lehman College, Computer Science
◦ Programming Methods I (CMP 167)
◦ Programming Methods II (CMP 168) | 2016-2017 |
| • Teaching Assistant
CUNY Lehman College, Mathematics
◦ Foundations of Data Science (MAT 128) | 2020-2023 |

ACADEMIC SERVICE

- Conference Web Chair , ACM CSCW '22, '23
- Conference Student Volunteer, ACM CHI Play '20, '21, ACM CSCW '18
- Conference Paper Reviewer, ACM CHI '21, '22', ACM CSCW '20, '22
- UW HCDE PhD Application Reviewer, 2021, 2023

ADDITIONAL INFORMATION

Languages: English (Fluent), Tagalog (Fluent), Cebuano (Fluent), Spanish (Conversational)

Citizenship: United States, Philippines