MERYL YE

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Education

Carnegie Mellon University
Aug. 2024 –
Ph.D. in Societal Computing

Cornell University
Aug. 2020 - Dec. 2023
B.S. Computer Science with Honors
Dean's List (all semesters)
GPA: 3.87

Honors & Awards

Rawlings Cornell Presidential Research Scholar
(2020-2023)

The Hunter R. Rawlings III Cornell Presidential Research Scholars program selects highly motivated students and provides them with the opportunity to conduct financially supported, faculty mentored research throughout their undergraduate years. Up to 200 students are supported each year.

John McMullen Dean's Scholar
(2020-2023)

As the most prestigious award in the College of Engineering, the McMullen Dean's Scholarship recognizes undergraduate students with outstanding achievements inside and outside of the classroom and their potential as future engineers.

Skills

PROGRAMMING LANGUAGES:

- Python
- Java
- OCaml
- JavaScript

TOOLS AND FRAMEWORKS:

- MATLAB
- R
- Arduino
- CAD
- Git
- SQL
- Tableau
- HTML/CSS

Research Experience

Cornell University **Ithaca, NY**
Undergraduate Researcher, Advised by ***Dr. Malte Jung*** *June 2021 – Present*

- Exploring how to incorporate ludic design into human-robot interaction to create more playful robots.
- Perform literature reviews on different robot design methods in HRI research field.
- Conduct lab and field studies using mixed-methods research protocols.
- Design and build physical robots (CAD modeling, rapid prototyping).
- First author of SDC submission accepted to HRI.
- First author of full paper accepted to RO-MAN.

Research Assistant, Advised by ***Dr. Jon Kleinberg*** *Aug. 2023 – Present*

- Analyzing the movement of users and information across Reddit communities.
- Performed quantitative analysis (regression analysis, trend mapping) on Reddit data to identify patterns in user behavior and how they relate to community characteristics.
- Second author of full paper that is currently in submission.

Research Assistant, Advised by ***Dr. Qian Yang*** *Feb. 2021 – May 2021*

- Investigated data-driven AI design opportunities within women's health and intimate technologies.
- Analyzed online discourses using Python to understand user needs and to envision potential solutions.

University of Tennessee **Knoxville, TN**
Biomedical Research Intern *May 2019 – Aug. 2019*

- Conducted independent research project studying electroencephalography-based brain-computer interfaces aiming to improve student learning.

Work Experience

Cisco **San Jose, CA**
Technical Intern I *June 2023 – Aug. 2023*

- Re-implemented Neo4j configuration database schema generation and insertion logic to separate from application-server's startup workflow in Java.
- Used Python script to process database schema information.
- Solution improved schema inconsistency detection as well as avoidance.

Verizon **Richardson, TX**
Network Engineering Intern *June 2022 – Aug. 2022*

- Implemented an improved database webserver using MySQL, PHP, CSS, and various web development tools.
- Business impact increased efficiency for the QA and metrics team by retiring legacy platforms and creating automation—consequently improving accuracy of data for the quality assurance team.

Papers & Publications

Meryl Ye, Eike Schneiders, Wen-Ying Lee, Malte Jung, "The Future of Home Appliances: A Study on the Robotic Toaster as a Domestic Social Robot," 2023. 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Busan, Korea, 2023.

Meryl Ye, Rei (Wen-Ying) Lee, Johan Michalove, and Jessie Wong. 2023. Toaster Bot: Designing For Utility and Enjoyability in the Kitchen Space. In Companion of the 2023 ACM/IEEE International Conference on Human-Robot Interaction (HRI '23 Companion).

Katherine Van Koevering, **Meryl Ye**, and Jon Kleinberg. Digital Crosswinds: Individual, Informational, and Referential Gradients in Online Communities. *(Under review)*.

Katherine Van Koevering, **Meryl Ye**, and Jon Kleinberg. Word Ordering and Language Conventions in Hathitrust Texts. *(Working paper)*.