

MERYL YE



merylye.github.io/merylye



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Education

Cornell University

B.S. Computer Science (2020-2023)

Dean's List (all semesters)

CS Honors Candidate

GPA: 3.8

Relevant Coursework

Computer Science:

- Natural Language Processing
- Computer Networks
- Algorithms
- Operating Systems
- Computer Vision
- Computer System Organization
- Machine Learning
- Functional Programming
- Object-Oriented Programming
- Data Structures

Information Science:

- Structure of Information Networks
- Teams and Technology
- Computer-Mediated Communication
- Human-Computer Interaction
- Data-Driven Web Applications

Math:

- Discrete Math
- Multivariable Calculus
- Linear Algebra
- Differential Equations

Other:

- Probability and Statistics
- Practical Tools for Operations Research and Machine Learning

Skills

PROGRAMMING LANGUAGES:

- Python
- Java
- OCaml
- JavaScript

TOOLS AND FRAMEWORKS:

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

Research Experience

Cornell University

Undergraduate Researcher, Robots in Groups Lab

Ithaca, NY

June 2021 – Present

- Advised by Professor Malte Jung
- 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, Social Computing

Aug. 2023 – Present

- Advised by Professor Jon Kleinberg.
- Analyzing the movement of users and information across Reddit communities.
- Performed quantitative analysis 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 to WWW.

Research Assistant, HCI

Feb. 2021 – May 2021

- Advised by Professor Qian Yang
- 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

Biomedical Research Intern

Knoxville, TN

May 2019 – Aug. 2019

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

Work Experience

Cisco

Technical Intern I

San Jose, CA

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

Network Engineering Intern

Richardson, TX

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.

Honors & Awards

2020 – 2023

Rawlings Cornell Presidential Research Scholar

2020 – 2023

John McMullen Dean's Scholar

Selected 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).