

YUNA HWANG

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<https://yunahwang.github.io/>

EDUCATION

- University of Wisconsin-Madison**, Madison, USA (UW-Madison) Sep.2022 - *May.2027*
- Ph.D. in Computer Science
 - Advisor: Professor Bilge Mutlu
- University of Wisconsin-Madison**, Madison, USA (UW-Madison) Sep.2022 - May.2024
- M.S. in Computer Science
 - Advisor: Professor Bilge Mutlu
- Sungkyunkwan University**, Seoul, Republic of Korea Mar.2018 - Feb.2022
- Bachelor of Applied Artificial Intelligence, Bachelor of Economics (Statistics)
 - Graduated *Magna Cum Laude*
 - Advisor: Professor Hayeon Song
- Indiana University**, Bloomington, USA Jan.2019 - May.2019
- Exchange Student, College of Arts and Sciences
 - 3.925/4.0 GPA

HONORS AND AWARDS

- Summer Research Assistantship** Summer 2023
- Department of Computer Sciences, UW-Madison
- Student Success Scholarship (\$3200; Full Tuition)** Jun.2021
- College of Computing and Informatics, Sungkyunkwan University
- 2nd Prize in the AI X Book-hackathon Competition** Jan.2021
- Sungkyunkwan University Library and Mindslab Inc.
- Academic Excellence Scholarship (\$1800)** Sep.2019
- AI Convergence Major, College of Computing and Informatics, Sungkyunkwan University

CONFERENCE PRESENTATIONS

1. Kim, D.H., **Hwang, Y.**, Wu, Y., & Song, H. (2022). Coping with Stress during the COVID-19: Social Support through Social Media. The 72nd Annual International Communication Association Conference, Paris, France.
 2. **Hwang, Yuna.***, Stegner, Laura.*, Porfirio, David., Mutlu, Bilge. (2024). Understanding On-the-Fly End-User Robot Programming. ACM DIS'24.
- * these authors contributed equally

WORKSHOP PAPERS

1. **Hwang, Yuna.**, Sato, Arissa.J., Praveena, Pragathi., Mutlu, Bilge. (2024). Understanding Generative AI in Robot Logic Parametrization. End-User Development for Human-Robot Interaction Workshop (EUD4HRI). HRI'24.
2. Stegner, Laura., **Hwang, Yuna.**, Porfirio, David., Mutlu, Bilge. (2024). Towards End-User Knowledge for Long-Term Use of Robots in Care Facilities. HRI for Aging in Place Workshop (HRI-AiP 2024). HRI'24.

TEACHING EXPERIENCE

UW-Madison, Madison, USA

- Teaching Assistant, Undergraduate Course
 - CS320: Data Programming II
 - CS220: Data Programming I

Spring 2023
Fall 2022

Sungkyunkwan University, Seoul, Republic of Korea

- Teaching Assistant, Undergraduate Course
 - GEDT020: AI Basics & Uses
 - GEDT014: Computational Thinking and Software Coding

Fall 2021, Spring 2021
Spring 2020

RESEARCH EXPERIENCE

People and Robots Laboratory, UW-Madison

Feb.2023 - *present*

- Graduate Research Assistant

Human-AI Interaction Lab, Sungkyunkwan University

Sep.2021 - Jul.2022

- Undergraduate Research Intern

TALKS

Data eXperience Laboratory, Sungkyunkwan University

Jan.2024

- End User Development in Human-Robot Interaction: Formal Methods and Multimodal Interaction in Robot Authoring Tools

PATENTS (APPLIED)

J.Lee*, J.Lee, J.Park*, Y.Hwang*, and J.Kim, "Method for Judging Abnormal Electrocardiogram Using Artificial Neural Network" Korean Patent Application No.1020210045672, **(2021)**.

* these authors contributed equally

TECHNICAL SKILLS

Python/Java/C++, Linux, Robot Operating System (ROS), R/SPSS, OracleSQL

SERVICE AND OUTREACH

Reviewer - Mechanisms for Mapping Human Input to Robots workshop at RSS24 June.2024

Reviewer - EUD4HRI workshop at HRI24 March.2024

People and Robots Laboratory Tour, UW-Madison Jun. 2024, Feb.2024, May.2023

- Gave a demonstration of the collaborative robot (cobot) *Periscope* to high school students

Wisconsin AI Safety Initiative, UW-Madison Apr.2023 - Jul.2023

- Facilitator for the Interpretability Up-Skill Event (Apr.2023)

Effective Altruism UW-Madison, UW-Madison Oct.2022 - Dec.2022

- AGI Safety Fundamentals Program Fellow

Statistical Analysis Student Society, Sungkyunkwan University Sep.2020 - Nov.2021

- Data Mining Team Leader (Mar.2021 - Jun.2021)

Center of Support for Students with Disability, Sungkyunkwan University Mar.2021 - Jun.2021

- Student Academics Volunteer