

Hui-Ru (Irene) Ho

PHD STUDENT · COMPUTER SCIENCES PROGRAM

University of Wisconsin-Madison, 1210 W Dayton St, Madison, WI 53726

☎ 6085011598 | ✉ hho24@wisc.edu | 🏠 <https://irene-huiru-ho.github.io> | 💼 www.linkedin.com/in/irene-hui-ru-ho/

Education

University of Wisconsin-Madison

Madison, WI, USA

PHD COMPUTER SCIENCES (HUMAN-COMPUTER INTERACTION)

2024 - present

- Advisor: Dr. Bilge Mutlu (People and Robots Laboratory)
- GPA: 3.9/4.0

University of Wisconsin-Madison

Madison, WI, USA

MS COMPUTER SCIENCES

2021 - 2023

- Advisor: Dr. Bilge Mutlu

University of Wisconsin-Madison

Madison, WI, USA

MS EDUCATIONAL PSYCHOLOGY

2019 - 2023

- Advisor: Dr. Edward Hubbard (Educational Neuroscience Laboratory)

National Taiwan University

Taipei, Taiwan

BS PSYCHOLOGY (HUMAN PERCEPTION AND COGNITION)

2014 - 2019

- minor in Economics

Publications

PUBLISHED

Ho, H. R., Kargeti, N., Liu, Z., Mutlu, B. (2025, April). SET-PAiREd: Designing for Parental Involvement in Learning with an AI-Assisted Educational Robot. Proceedings of the 2025 CHI conference on human factors in computing systems (CHI '25). *Acceptance Rate: 24%*

Kim, C., Sato, A., White, N., **Ho, H. R.**, Lee, C., Huang, Y., Mutlu, B. (2025, April). Bridging Generations using AI-Supported Co-Creative Activities. Proceedings of the 2025 CHI conference on human factors in computing systems (CHI '25). *Acceptance Rate: 24%* **Honorable Mention Award (Top 251 in 5014)**

Ho, H. R. (2025, April). Empowering Parents and Teachers to Support Children's Learning through AI-based and Robotic Learning Companions. Extended Abstract of the 2025 CHI conference on human factors in computing systems (CHI EA '25). *Acceptance Rate: 18%*

Ho, H. R., Hubbard, E. M., Mutlu, B. (2024, May). "It's Not a Replacement:" Enabling Parent-Robot Collaboration to Support In-Home Learning Experiences of Young Children. Proceedings of the 2024 CHI conference on human factors in computing systems (CHI '24). *Acceptance Rate: 25%* **Honorable Mention Award (Top 150 in 4028)**

Ho, H. R., White, N. T., Hubbard, E. M., Mutlu, B. (2023, June). Designing Parent-child-robot Interactions to Facilitate In-Home Parental Math Talk with Young Children. In Proceedings of the 22nd Annual ACM Interaction Design and Children Conference (IDC '23) (pp. 355-366). *Acceptance Rate: 29%*

Ho, H. -R., Cagiltay, B., White, N., Hubbard, E., Mutlu, B. (2021, June 24-30). RoboMath: Designing a Learning Companion Robot to Support Children's Numerical Skills. ACM Interaction Design and Children Conference (IDC '21), Athens, Greece. *Acceptance Rate: 36%*

Cagiltay, B., **Ho, H. -R.**, Michaelis, J., Mutlu, B. (2020, June 21-24). Investigating Family Perceptions and Design Preferences for an In-Home Robot. ACM Interaction Design and Children Conference (IDC '20), London, United Kingdom. *Acceptance Rate: 32%*

Ho, H. -R., Chen, Y. -L., Wu, A. -Y., Yeh, S. -L., Youngstrom, E. A. (2017, August). Do people with different personalities show different emotion patterns? Poster presented at the American Psychological Association Annual Convention (APA '17), San Francisco, CA, United States.

Awards, Fellowships, & Grants

April 2025	CHI '25 Best Paper Honorable Mention Award (<i>Top 251 in 5014</i>), CHI 2025	
April 2025	CHI '25 Doctoral Consortium Award (<i>Acceptance rate: 18%</i>), CHI 2025	\$1800
May 2024	CHI '24 Best Paper Honorable Mention Award (<i>Top 150 in 4028</i>), CHI 2024	
June 2023	Graduate Student Travel Award, University of Wisconsin-Madison	\$500
June 2023	Student Research Grants Competition, University of Wisconsin-Madison	\$1500
May 2022	Government Scholarship to Study Abroad (GSSA), Ministry of Education, Taiwan (R.O.C.)	\$32,000
July 2018	Fully-Funded Scholarship: Study Abroad Program for Future Scholars in the Humanities and Social Sciences, Ministry of Education, Taiwan (R.O.C.)	\$30,000

Research Experience

Graduate Researcher

PEOPLE AND ROBOTICS LAB, UW-MADISON

Madison, WI
09/2019 - Present

- Designing novel interactions for human-AI and human-robot collaboration to enhance human learning.

Graduate Researcher

EDUCATIONAL NEUROSCIENCE LAB, UW-MADISON

Madison, WI
2019-2023

- Investigated how attention and multisensory perception affect working memory and numerical cognition.

User Experience Researcher Intern – AI Platform Team

META PLATFORMS, INC.

Menlo Park, CA
Summer 2022

- Led mixed-methods studies collaborating with AI/ML engineers and support AI productivity through quantitative methods.

User Experience Researcher Intern – Consumer Team

TREND MICRO TAIWAN

Taipei, Taiwan
Summer 2017

- Led mixed-methods research to develop privacy-sensitive products and evaluated in-home parental control device.

Mentoring Experience

2024-now	Sungwoon Park, Undergraduate Assistant	Madison, WI
2024-now	June Lee, Undergraduate Assistant	Madison, WI
2024-now	Tony (Yuankun) Wang, Undergraduate Assistant	Madison, WI
2023-now	Ziqi Liu, Undergraduate Assistant (Honors)	Madison, WI
2023-now	Justina Wang, Undergraduate Assistant (Honors)–incoming CS PhD at Northwestern Univ.	Madison, WI
2023-2025	Nitigya Kargeti, Graduate Assistant	Madison, WI
2024	Yash Sancheti, Undergraduate Assistant–now a Software Engineer at Microsoft	Madison, WI
2022-2024	Muhammad Junaid, Graduate Assistant–now a Software Developer at Whova	Madison, WI

Teaching Experience

SU 2025	CS 540 Intro to Artificial Intelligence, Teaching Assistant	UW-Madison
2022 - 2024	EP 301 How People Learn, Teaching Assistant	UW-Madison
2020 - 2022	EP 326 Mind, Brain and Education, Teaching Assistant	UW-Madison

Professional Development

Director of Communications

WISOLVE CONSULTING GROUP, INC

Madison, WI
2021-present

- Managed internal and external communications with members and community stakeholders.

Instructor

GRANDPARENT UNIVERSITY

- Taught grandparents and grandchildren how to program social robots.

Madison, WI

July 2024

Attendee

MORGRIDGE ENTREPRENEURIAL BOOTCAMP

- Educated with project management, business/lean startup canvas lecture and entrepreneurship.

Madison, WI

Summer 2022

Service and Outreach

March 2025 **Academic Seminar by Prof. Ying Xu from HGSE**, Student Host and Coordinator

Madison, WI

May 2024 **ACM CHI 2024**, Student Volunteer

Honolulu, HI

June 2023 **ACM IDC 2023**, Student Volunteer

Chicago, IL

Peer Review

ACM/SIG Conferences: CHI (2025, 2024), HRI (2025), IDC (2024, 2023, 2022)