Hui-Ru (Irene) Ho

PhD Student · Computer Sciences Program

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

6085011598 | hho24@wisc.edu | 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: 25%*

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: 25%*

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 Doctoral Consortium Award** (*Acceptance rate: 18%*), CHI 2025	*$1800*
May 2024	**CHI '24 Best Paper Honorable Mention Award** (*Top 150 in 4028*), 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 — *Madison, WI*
PEOPLE AND ROBOTICS LAB, UW-MADISON — *09/2019 - Present*
- Designing novel interactions for human-AI and human-robot collaboration to enhance human learning.

Graduate Researcher — *Madison, WI*
EDUCATIONAL NEUROSCIENCE LAB, UW–MADISON — *2019-2023*
- Investigated how attention and multisensory perception affect working memory and numerical cognition.

User Experience Researcher Intern – AI Platform Team — *Menlo Park, CA*
META PLATFORMS, INC. — *Summer 2022*
- Led mixed-methods studies collaborating with AI/ML engineers and support AI productivity through quantitative methods.

User Experience Researcher Intern – Consumer Team — *Taipei, Taiwan*
TREND MICRO TAIWAN — *Summer 2017*
- Led mixed-methods research to develop privacy-sensitive products and evaluated in-home parental control device.

Mentoring Experience

2023-2025	**Ziqi Liu**, Undergraduate Assistant with Honors	*Madison, WI*
2023-2025	**Justina Wang**, Undergraduate Assistant with Honors	*Madison, WI*
2023-2025	**Nitigya Kargeti**, Graduate Assistant	*Madison, WI*
2024	**Yash Sancheti**, Undergraduate Assistant	*Madison, WI*
2022-2024	**Muhammad Junaid**, Graduate Assistant	*Madison, WI*

Teaching Experience

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 — *Madison, WI*
WISOLVE CONSULTING GROUP, INC — *2021-present*
- Managed internal and external communications with members and community stakeholders.

Instructor — *Madison, WI*
GRANDPARENT UNIVERSITY — *July 2024*
- Taught grandparents and grandchildren how to program social robots.

Attendee — *Madison, WI*
MORGRIDGE ENTREPRENEURIAL BOOTCAMP — *Summer 2022*
- Educated with project management, business/lean startup canvas lecture and entrepreneurship.

Service and Outreach

May 2024	**ACM CHI 2024**, Student Volunteer	*Honolulu, HI*
June 2023	**ACM IDC 2023**, Student Volunteer	*Chicago, IL*

Peer Review

ACM/SIG Conferences: CHI, HRI, IDC