

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

PHD COMPUTER SCIENCES

- Advisor: Dr. Bilge Mutlu
- GPA: 3.9/4.0

Madison Wisconsin

2024 - present

University of Wisconsin-Madison

MS COMPUTER SCIENCES

- Advisor: Dr. Bilge Mutlu

Madison Wisconsin

2021 - 2023

University of Wisconsin-Madison

MS EDUCATIONAL PSYCHOLOGY

- Advisor: Dr. Edward Hubbard

Madison Wisconsin

2019 - 2023

National Taiwan University

BS PSYCHOLOGY (MINOR IN ECONOMICS)

Taipei, Taiwan

2014 - 2019

Publications

PUBLISHED

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. **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 (pp. 355-366).

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 (IDC) Conference, Athens, Greece.

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 (IDC) Conference, London, United Kingdom.

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 (APA) Annual Convention, San Francisco, CA, United States.

IN REVIEW

Ho, H. R., Cagiltay, B., Ibtasar, R., Mutlu, B., Michaelis, J. E. (2025). Exploring How Learning Companion Robots Can Assist Children in Homework. [venue removed for anonymization concerns]

Ho, H. R., Kargeti, N., Liu, Z., Mutlu, B. (2025). SET-PAiREd: Designing for Parental Involvement in Learning with an AI-Assisted Educational Robot. [venue removed for anonymization concerns]

Research Experience

Graduate Researcher

PEOPLE AND ROBOTICS LAB, UW-MADISON

- Designing learning companion robot to support children's learning through human-AI collaboration.

Madison, WI

09/2019 - Present

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-now Ziqi Liu, Undergraduate Assistant with Honors

Madison, WI

2023-now Justina Wang, Undergraduate Assistant with Honors

Madison, WI

2023-now Nitigya Kargeti, Graduate Assistant

Madison, WI

2022-2024 Muhammad Junaid, Graduate Assistant

Madison, WI

Teaching Experience

2020 - 2022 EP 326 Mind, Brain and Education, Teaching Assistant

UW-Madison

2022 - 2024 EP 301 How People Learn, Teaching Assistant

UW-Madison

Awards, Fellowships, & Grants

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

Professional Development

Director of Communications

Madison, WI

WISOLVE CONSULTING GROUP, INC

- 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