Hui-Ru (Irene) Ho

PHD STUDENT · COMPUTER SCIENCES PROGRAM

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

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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	Taipei, Taiwan

Publications_

BS Psychology (MINOR IN ECONOMICS)

PUBLISHED

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

2014 - 2019

- **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.

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 Al-Assisted Educational Robot. [venue removed for anonymization concerns]

Research Experience

Graduate Researcher Madison, WI

PEOPLE AND ROBOTICS LAB, UW-MADISON

09/2019 - Present

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

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

Awards, Fellowships, & Grants _____

April 2025	CHI '25 Doctoral Consortium Award (Acceptance rate: 18%), CHI 2025	
June 2023	Graduate Student Travel Award, University of Wisconsin-Madison	\$500
June 2023	Student Research Grants Competition, University of Wisconsin-Madison	\$1500
May 2022	2 Government Scholarship to Study Abroad (GSSA), Ministry of Education, Taiwan (R.O.C.)	
July 2018	Fully-Funded Scholarship: Study Abroad Program for Future Scholars in the Humanities	\$30,000
	and Social Sciences, Ministry of Education, Taiwan (R.O.C.)	\$30,000

Professional Development _____

Director of CommunicationsMadison, WIWISOLVE CONSULTING GROUP, INC2021-present

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

InstructorMadison, WIGRANDPARENT UNIVERSITYJuly 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 a	nd Outreach	
•	ACM CHI 2024, Student Volunteer	Honolulu, H
June 2023	ACM IDC 2023, Student Volunteer	Chicago, Il
Peer Revi	ew	

ACM/SIG Conferences: CHI, HRI, IDC