Yaxin Hu

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Education

- **Ph.D. Candidate in Computer Sciences | University of Wisconsin–Madison** *Aug 2020 - Jun 2026 (Expected)*
  Advisor: Bilge Mutlu Madison, United States
  ◦ Affiliated with People and Robots Lab
- **MSc. in Computational Design | Carnegie Mellon University** *Aug 2018 - Jun 2020*
  Advisor: Henny Admoni Pittsburgh, United States
  ◦ Affiliated with Human and Robots Partners Lab
- **BSc. in Computer Science | The Chinese University of Hong Kong (CUHK)** *Aug 2012 - Jun 2017*
  Undergraduate Thesis Advisor: Tien-Tsin Wong Hong Kong
  ◦ Minor in Fine Arts
  ◦ Undergraduate Student Exchange at **Dartmouth College**, *Fall 2014*

Experience

- **Summer Internship - Miraikan: The National Museum of Emerging Science and Technology** *Jul 2025 - Sep 2025*
  Accessibility Lab; Advisors: Hironobu Takagi, Chieko Asakawa Tokyo, Japan
  ◦ Project: Robot-Assisted Group Tours for Blind People
- **Research Visiting - Human Computer Interaction Institutes, Carnegie Mellon University** *Jun 2023 - Nov 2023*
  Big Lab; Advisor: Jeffrey P. Bigham Pittsburgh, United States
  ◦ Project: Conversational Telepresence Robots for Homebound Older Adults

Selected Conference Proceedings

C=Conference

[C.10] **Yaxin Hu**, Hui-Ru Ho, Chenming Ye, Bilge Mutlu. "Co-designing Robots through in-situ Bodystorming to Support Cultural Institution Volunteers" *In Submission ACM/IEEE International Conference on Human Robot Interaction 2026*. (**HRI 2026**, under review)

[C.9] **Yaxin Hu**, Masaki Kuribayashi, Allan Wang, Seita Kayukawa, Daisuke Sato, Bilge Mutlu, Hironobu Takagi, Chieko Asakawa. "Robot-Assisted Group Tours for Blind People"*In Submission to CHI Conference on Human Factors in Computing Systems 2026*. (**CHI 2026**, under review)

[C.8] **Yaxin Hu**, Anjun Zhu, Catalina Toma, Bilge Mutlu. "Designing Telepresence Robots to Support Place Attachment" *In Proceedings of ACM/IEEE International Conference on Human Robot Interaction 2025*. (**HRI 2025**, acceptance rate: 25%)

[C.7] **Yaxin Hu**[*], Arissa J. Sato[*], Jingxin Du, Chenming Ye, Anjun Zhu, Pragathi Praveena, Bilge Mutlu. "NarraGuide: an LLM-based Narrative Mobile Robot for Remote Place Exploration " *In Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology*. (**UIST 2025**, acceptance rate: 22%)

[C.6] **Yaxin Hu**, Laura Stegner, Yasmine Kotturi, Yi-hao Peng, Faria Fuq, Yuhang Zhao, Jeffrey P. Bigham, Bilge Mutlu."'This really let's us see the entire world:' Designing a conversational Telepresence Robots for Homebound Older Adults" *In proceedings of ACM Designing Interactive Systems 2024*. (**DIS 2024**, acceptance rate: 27.4%)

[C.5] **Yaxin Hu**[*], Hajin Lim[*], Lisa Kakonge, Jade T. Mitchell, Hailey L. Johnson, Lyn S. Turkstra, Melissa C. Duff, Catalina L. Toma, Bilge Mutlu. "SMART-TBI: Design and Evaluation of the Social Media Accessibility and Rehabilitation Toolkit for Users with Traumatic Brain Injury." *In proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility*. (**ASSETS 2024**, acceptance rate: 30%)

[C.3] **Yaxin Hu**, Hajin Lim, Hailey L. Johnson, Josephine M. O'Shaughnessy, Lisa Kakonge, Lyn S. Turkstra, Melissa C. Duff, Catalina L. Toma, Bilge Mutlu. "Investigating day-to-day experiences with conversational agents by users with traumatic brain injury." *In proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility*. (**ASSETS 2023**, acceptance rate: 30%)

[C.3] Hajin Lim, Lisa Kakonge, **Yaxin Hu**, Lyn S. Turkstra, Melissa C. Duff, Catalina L. Toma, and Bilge Mutlu. "So, I Can Feel Normal: Participatory Design for Accessible Social Media Sites for Individuals with Traumatic Brain Injury." *In Proceedings of CHI Conference on Human Factors in Computing Systems 2023*. (**CHI 2023**, acceptance rate: 27.6%)

[C.2] **Yaxin Hu**, Yuxiao Qu, Adam Maus, Bilge Mutlu. "Polite or Direct? Conversation Design of a Smart Display for Older Adults Based on Politeness Theory." *In Proceedings of CHI Conference on Human Factors in Computing Systems 2022*. (**CHI 2022**, acceptance rate: 24.7%)

[C.1] **Yaxin Hu**, Lingjie Feng, Bilge Mutlu, Henny Admoni. "Exploring the Role of Social Robot Behaviors in a Creative Activity." *In Proceedings of Designing Interactive Systems Conference 2021*. (**DIS 2021**, acceptance rate: 26.8%)

JOURNALS & WORKSHOPS

J=JOURNAL, W=WORKSHOP, S=IN SUBMISSION

[J.3] Gina Landucci, David H. Gustafson Sr, Marie-Louise Mares, Klaren Pe-Romashko, John J. Curtin, **Yaxin Hu**, Adam Maus, Kasey Thompson, Sydney Saunders, Kaitlyn Brown, Judith Woodburn, Bilge Mutlu. "Using Smart Displays to Implement an eHealth System for Older Adults with Multiple Chronic Conditions: A Randomized Controlled Trial" *JMIR Aging* (2025).

[J.2] Dakota Sullivan, Nathan White, **Yaxin Hu**, Jeremy DW Clifton, Bilge Mutlu. "Robot Primals: Exploring World Beliefs as a Source for Robot Behavior Design." *ACM Transactions on Human-Robot Interaction* (2025).

[J.1] Gustafson, David H., Marie-Louise Mares, Darcie C. Johnston, Gina Landucci, Klaren Pe-Romashko, Olivia J. Vjorn, **Yaxin Hu**, Adam Maus, Jane E. Mahoney, and Bilge Mutlu. "Using Smart Displays to Implement an eHealth System for Older Adults With Multiple Chronic Conditions: Protocol for a Randomized Controlled Trial." JMIR Research Protocols 11, no. 5 (2022): e37522.

[W.3] Laura Stegner, Richard Paluch, Long-Jing Hsu, Sawyer Collins, **Yaxin Hu**, Marius Greuèl, Naonori Kodate, Claudia Müller, Bilge Mutlu, Selma Šabanović. "RoboCare Design Workshop: Understanding, Translating, Operationalizing, and Scaling up Design Knowledge Regarding Robotic Systems for Care Assistance" *Companion Publication of the 2024 ACM Designing Interactive Systems Conference*.

[W.2] W2. Tiger F. Ji, **Yaxin Hu**, Yu Huang, Ruofei Du, and Yuhang Zhao. "A Preliminary Interview: Understanding XR Developers' Needs towards Open-Source Accessibility Support." In 2023 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW), pp. 493-496. IEEE, 2023.

[W.1] Jingyoung Choi, **Yaxin Hu**. "[Extended Abstract] A Pilot Study of Patients' Self-disclosure and Privacy Concerns to a Conversational Social Robot in Hospitals." *Presented at International Communication Association Conference*, 2022, Paris, France. (ICA 2022).

TEACHING EXPERIENCE

- **Co-Instructor: CS 571 - Building User Interfaces (300+ enrollment)** *Jan 2025 - May 2025*
  Undergraduate CS major selective course (HCI) at UW–Madison [571 Course Website]
  ◦ Conduct weekly lectures for human computer interaction concepts and user-centered methods
- **Instructor: Social Robotics - Grandparent University (GPU)** *Summer 2022*
  GPU summer sessions on social robots with 30+ alumni grandparents and grandchildren

WORK EXPERIENCE

- **Deutsche Bank, Hong Kong** *Summer 2026 & July 2017 - July 2018*
  Analyst in Technology
  ◦ Production support for global equity derivatives trading.
  ◦ Integrated global trading data feeding pipeline in Java and migrated Oracle database with PL/SQL.
  ◦ Analyzed trading activities with Python scripts and automated report generation for GED teams globally.

SERVICES

resumeHeadingSkillStart

Conference Review: CHI 2025, DIS 2025, RO-MAN 2025, UIST 2024, CHI 2024, RO-MAN2024, CHI 2023, CSCW 2023, HRI 2022
Journal Review: ACM Transactions on Human Robot Interaction (THRI 2025), ACM Transactions on Computer-Human Interaction (TOCHI 2023), Computers in Human Behavior (2022)

AWARDS

- Merit Scholarship, Carnegie Mellon University, 2018-2020
- Master List, Morningside College, The Chinese University of Hong Kong, 2017
- Dean's List, The Chinese University of Hong Kong, 2017
- GEF Scholarship (awarded to attend summer program at Oxford University), The Chinese University of Hong Kong, 2014

SKILLS

- **Engineering Skills:** ROS (Robot Operating System), C++, Python, PyTorch, Java, Javascript
- **Design Tools:** Adobe Creative Suites, Figma, OpenFrameworks