

Yaxin Hu

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Education

Ph.D. in Computer Sciences, University of Wisconsin – Madison, United States Affiliated with People and Robots Laboratory Advisor: Bilge Mutlu	2020 – 2025 (expected)
M.Sc. in Computational Design, Carnegie Mellon University, United States Affiliated with Human and Robots Partners Lab Advisors: Henny Admoni and Daniel Cardoso Llach	2018 – 2020
B.Sc. in Computer Science, The Chinese University of Hong Kong, Hong Kong First Class Honour, Minor in Fine Arts	2012 - 2017
Exchange Student, Dartmouth College, United States	2014

Selected Publication

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%)

Yaxin Hu, Laura Stegner, Bilge Mutlu. "Designing Socially Assistive Robots with Transactive Memory System." *CHI workshop: Socially Assistive Robots as Decision Makers: Transparency, Motivations, and Intentions 2023*.

Lim, Hajin, 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)

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%)

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%)

Research Experience

Big Lab, Human-Computer Interaction Institute , Carnegie Mellon University <i>Visiting Scholar; Advisor: Prof. Jeffrey Bigham</i> <ul style="list-style-type: none">Researched on tele-robotics for homebound older adults.	06/2023 - Present
People and Robots Lab, Department of Computer Sciences , University of Wisconsin – Madison <i>Research Assistant; Advisor: Prof. Bilge Mutlu</i> Social Communication for People with Traumatic Brain Injury <ul style="list-style-type: none">Led the study on social media support tool for people with traumatic brain injury.	03/2022 - Present
eHealth System for Senior People with Chronic Pain <ul style="list-style-type: none">Led the implementation on health-intervention systems on smart displays (Google Nest Hub and Amazon Echo Show).	08/2020 - Present
Human and Robot Partners Lab , Robotics Institute, Carnegie Mellon University. <i>Research Assistant; Advisor: Prof. Henny Admoni</i> <ul style="list-style-type: none">Led the research on non-verbal behaviors of a social robot Kuri and its effect on children's art-making.Designed interactive activities and conducted pilot study at Children's Museum of Pittsburgh.Let OurCS workshop for undergraduate women engineers and guided social robotics research project with Kuri.	06/2019 – 08/2020

Work Experience

Project Amelia (Immersive Theater), Bricolage Production Company, Pittsburgh 05/2019 – 08/2019

Theater Assistant and Hardware Engineer

- Built indoor tracking system with Bluetooth beacons for audience locating and personalized experience.
- Assisted in project management and logistics of the immersive theater production.

Global Equity Derivatives, Deutsche Bank, Hong Kong

07/2017 – 07/2018

Analyst in Technology

- Integrated global data feeding pipeline in Java and migrated Oracle database with PL/SQL for legacy components, which had impact on equity trading activities across Hong Kong, Japan and Australia.
- Developed Perl and Python scripts for trading analysis (more than 200,000 trading records daily), report generation and mass email automation.

Global Markets, Deutsche Bank, Hong Kong

06/2016 – 08/2016

Summer Intern

- Assisted in production support for global equity trading platforms.

Thomson Reuters, Hong Kong

08/2015 – 12/2015

Training Engineer in Technology Division

- Built up an automation testing system for a searching engine using Ruby, Cucumber and Selenium Toolkit.

Services

Conference Review: HRI 2022, CSCW 2023

Journal Review: Computers in Human Behavior (2022), ACM Transactions on Computer-Human Interaction (TOCHI 2023)

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, The Chinese University of Hong Kong, 2014

Skills

- Engineering: ROS (Robot Operating System), C++, Python, PyTorch, Java, Javascript, Node.js, Perl, Linux, Pandas, Unity
- Design Tools: Adobe Creative Suites, Figma, D3.js, OpenFrameworks