yumeng ma

HUMAN-AI INTERACTION · ACCESSIBILITY · VISUAL & SOCIAL COMPUTING

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Education	
University of Washington	Seattle, WA
PhD in Computer Science and Engineering (Human-Computer Interaction) Advisor: Jacob O. Wobbrock	2024 - Present
Brown University	Providence, RI
Sc.M in Computer Science	2022 - 2024
GPA: 4.0 / 4.0 Advisor: Jeff Huang	
Arizona State University	Tempe, AZ
B.S. IN COMPUTER SCIENCE AND PSYCHOLOGY	2019 - 2022
Barrett Honors College GPA: 4.0 / 4.0 Summa Cum Laude	
Thesis: "Assessing Exhibit Interaction through Bridging the Connections Between Biometrics	and Traditional Tools"

Publications_

* equal contribution

CONFERENCE PROCEEDINGS

Zainab Iftikhar, **Yumeng Ma**, and Jeff Huang. 2023. "Together but not together": Evaluating Typing Indicators for Interaction-Rich Communication. In Proceedings of the 2023 Conference on Human Factors in Computing Systems (CHI '23). Paper

Ian Gonsher, **Yumeng Ma**, Ivan Pineda-Dominguez, Matthew Lee, and Yuxin. 2023. The Mixed Reality Passthrough Window: Rethinking the Laptop Videoconferencing Experience. Human Interaction and Emerging Technologies (IHIET-AI 2023): Artificial Intelligence and Future Applications. *Paper*

SHORT PAPERS & EXTENDED ABSTRACTS

Yumeng Ma^{*} and Jiahao Ren^{*}. 2023. ProactiveAgent: Personalized Context-Aware Reminder System. In The 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct). *Paper*

Research Experience

Brown Department of Neuroscience

COMPUTER VISION RESEARCH ASSISTANT

• Built a visual prosthesis system for blind and low vision users to locate everyday objects and identify surrounding text.

UCLA HCI Lab

HCI RESEARCH INTERN

• Led the development of a proactive reminder system that takes in user context, history, and spoken interactions by leveraging LLMs and personal agents.

Brown Department of Engineering

DESIGN RESEARCH ASSISTANT

• Introduced a new paradigm for the integration of AR into laptop and desktop displays to enable local users to interact more easily and seamlessly with remote users during videoconferencing sessions.

Providence, RI 2023 - 2024

Los Angeles, CA

Providence, RI 2022 - 2023

2023

DISTRIBUTED RESEARCH EXPERIENCES FOR UNDERGRADUATES INTERN

 Designed novel typing indicators and found that they enhance user co-presence in written communication through in depth surveys and interviews.

ASU SoLET Lab

Brown HCI Lab

PSYCHOLOGY RESEARCH ASSISTANT

 Conducted testing and evaluation of tutoring systems to optimize learning and educational practices for underrepresented groups.

NASA Psyche Mission

HCI RESEARCH ASSISTANT

• Developed a web app that allows users to interact with the Psyche Spacecraft model and led user studies with biometric data analysis that showed the app increased public engagement.

Work Experience

Infosys

UI/UX DESIGN INTERN, LIVING LABS TEAM

• Spearheaded the design of an accessible phygital UI that integrate emerging AI trends to optimize retail experiences for diverse user personas.

Brown + NASA

MOBILE DEVELOPER

• Led and developed a sound and haptic-enabled cross-platform mobile app to help blind and low vision individuals explore and learn about space.

Civilience

PROJECT MANAGEMENT & UI/UX DESIGN INTERN | LIAISON BETWEEN FRONTEND AND UIUX

 Led the UI/UX team to design a web-based app with interactive health data visualizations and built reusable components for a consistent design system across the product

Awards, Fellowships, & Grants_____

2024	NSF Graduate Research Fellowship, NSF
2024	Paul G. Allen School Fellowship, University of Washington
2019 - 2023	Microsoft DisAbility Scholarship, Microsoft
2022	Google CS Research Mentorship Program Fellowship, Google
Teaching	

Teaching_

Spring '22 CSE 365 Information Assurance, TA for Adam Doupe and Tiffany Bao, ASU

Extracurricular & Work Activities

2021 - Present	Member, AccessComputing	
2022 - 2024	Master's Representative, Brown University CS Diversity Committee	Providence, RI
2023	Student Volunteer, UIST	San Francisco, CA
2020 - 2021	Microsoft Support / Xbox Advocate Contract, Microsoft	Tempe, AZ

Skills_____

Programming	Python, C/C++, C#, Java, Unix/Linux, ROS, APIs, Git	
Web/Mobile	HTML, CSS, Javascript, Typescript, React, React Native, Vue	
Game Dev	Unity, OpenGL	
Data	Jupyter Notebook, MySQL, MATLAB, JSON	
Design	UI/UX, Adobe Creative Suite, Figma, Wireframing, Fusion360, Blender	
September 29, 2024	YUMENG MA · CURRICULUM VITAE	

Providence, RI 2022

> Tempe, AZ 2022

Remote

Providence, RI 2023 - 2024

2024

Tempe, AZ

2021-2022

Remote

2023