

Mingyi Li

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Research Summary

My research interests lie in Human-AI Collaboration, Accessibility, and Creativity Support. I use mixed-methods research and applied AI/ML to build and evaluate interactive systems. My recent work focuses on AI-powered content authoring and creativity tools and explores agentic AI workflows for creative ideation and collaboration.

Skills

Languages: Java, Python, JavaScript/TypeScript, React, Node.js **Frameworks & Libraries:** PyTorch, TensorFlow, scikit-learn, OpenCV **VR Development:** Unreal/Unity Engine **Design Prototyping:** Figma, Tableau, Canva, Miro **User Research:** Interviews, Focus Groups, Qualitative/Quantitative Analysis, Usability Testing, Wireframing.

Education

Northeastern University, PhD in Computer Science 9.2024-present

- **Advisor:** Maitraye Das

Northeastern University, MS in Computer Science GPA: 3.96/4 | 9.2024-4.2026

- **Relevant Courses:** Information Visualization, Algorithms, Computer Networking, Human-Centered AI.

University of California, San Diego, BS in Computer Science & Cognitive Science GPA: 3.9 | 9.2020-6.2024

- **Advisors:** Steven Dow, Jane E
- **Relevant Courses:** Software Engineering, Advanced Data Structures, Computer Vision, Machine Learning, Artificial Intelligence, Statistical Methods, HCI Technical Systems, Ubiquitous Computing, Social Computing.

Professional Experience

Graduate Researcher, Northeastern University, Papers [8, 6] 9.2024 – present

Research Intern, Microsoft Research 6.2023 – 9.2023

Student Researcher, The Design Lab at UCSD, Papers [7, 2, 1] 6.2022 - 9.2025

Research Assistant, University of Michigan, Paper [3] 1.2023 – 9.2023

XR Developer Intern, Arthur C. Clarke Center for Human Imagination 1.2022 – 9.2022

Peer-Reviewed Publications

[8] “Catching lightning in a bottle”: How Blind or Low Vision Creators Navigate Ideation Across Creative Domains. (ASSETS '26)

Mingyi Li, Yutian Shi, Cynthia Bennett, Maitraye Das.

[7] VizCrit: Exploring Strategies for Displaying Computational Feedback in a Visual Design Tool. (CHI '26)

Mingyi Li, Mengyi Chen, Sarah Luo, Yining Cao, Haijun Xia, Maitraye Das, Steven Dow, Jane E.

[6] Idea11y: Enhancing Accessibility in Collaborative Ideation for Blind or Low Vision Screen Reader Users (CHI '26)

Mingyi Li, Huiru Yang, Nihar Sanda, Maitraye Das.

[5] Thing2Reality: Enabling Spontaneous Creation of 3D Objects From 2D Images Using Generative AI in Distributed XR Meetings. (UIST '25)

Erzhen Hu, Mingyi Li, Jungtaek Hong, Xun Qian, Alex Olwal, David Kim, Seongkook Heo, Ruofei Du.

[4] DialogLab: Authoring, Simulating, and Testing Dynamic Group Conversations in Hybrid Human-AI Conversations. (UIST '25)

Erzhen Hu, Yanhe Chen, Mingyi Li, Vrushank Phadnis, Pingmei Xu, Xun Qian, Alex Olwal, David Kim, Seongkook

Heo, Ruofei Du.

[3] **CareJournal: A Voice-Based Conversational Agent for Supporting Care Communications.** (CHI '24)
John Rudnik, Sharadhi Raghuraj, **Mingyi Li**, and Robin N. Brewer.

[2] **ProcessGallery: Contrasting Early and Late Iterations for Design Principle Learning.** (CSCW '24)
Yu-Chun Grace Yen*, Jane L. E*, Hyoungwook Jin, **Mingyi Li**, Grace Lin, Isabelle Yan Pan, and Steven P. Dow.

[1] **When to Give Feedback: Exploring Tradeoffs in the Timing of Design Feedback.**(C&C '24)
Jane L. E*, Yu-Chun Grace Yen*, Isabelle Yan Pan, Grace Lin, **Mingyi Li**, Hyoungwook Jin, Mengyi Chen, Haijun Xia, and Steven P. Dow.

* indicates Equal Contribution.

Awards

Khoury Distinguished Fellowship , Northeastern University	2024
Undergraduate Excellence in Research , UC San Diego CSE Department	2024
Best Paper Award Honorable Mention , ACM CHI conference	2024
Imagination Fellowship , Arthur C. Clarke Center for Human Imagination	2023
Ethics & Society Award , UC San Diego CSE Department	2023

Teaching Experience

Principles of Human-Computer Interaction , Teaching Assistant	2025
Accel. Intro to Programming , Tutor	2024
Interaction Design , Instructional Assistant	2023
Intro to Programming 2 , Tutor	2022-2023

Services

Collective Intelligence Conference , Student Volunteer	2025
ASSETS Conference , Student Volunteer (Online)	2024
Disabled United Student Community at UCSD , Co-founder & Vice President	2021-2023
Peer Review , C&C '26, UIST Papers '25, C&C Papers '25*, C&C Posters and Demos '25, CHI LBW '24*, CSCW Posters '24	

* indicates Recognition for Outstanding Reviews.