

Yue Shen

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Research Interests

Human-Computer Interaction, Augmented/Mixed Reality, Human-AI Collaboration, Accessibility, Information Visualization

Education

University of Michigan - Ann Arbor

MI, USA, 2022/08 - 2024/05

Master of Science in Information

Advised by Dr Steve Oney

University of St Andrews

Fife, UK, 2019/01 - 2020/08

Master of Science in Human-Computer Interaction

Advised by Dr Uta Hinrichs and Dr Ruth Hoffmann

Zhejiang University

Hangzhou, China, 2014/09 - 2018/06

Bachelor in the College of Agriculture and Biotechnology

Research Experience

Research Assistant

Mi2lab, University of Michigan

2024/05 - present

Advised by Dr Michael Nebeling

Explored future AR experiences: developed VR prototypes to simulate AR interactions, and prototyped visual techniques to accommodate the limited visual displays of future smart glasses.

Spot Group, University of Michigan

2023/06 - 2023/09

Advised by Dr Steve Oney and Dr April Yi Wang

Explored AI-enhanced coding education: participated in the design of an interactive dialogue-based coding tutorial platform, developed and led user studies, and performed qualitative data analysis.

Preprint: Steve Oney, **Yue Shen**, Fei Wu, Chris Youngsuh Hong, Ziang Wang, Yamini Khajekar, April Yi Wang.

EBooks: AI-Enhanced Interactive Narratives for Programming Education. [arXiv:2411.10687](https://arxiv.org/abs/2411.10687) [cs.HC]

[Project Website](#)

Thesis

An LLM-based Approach for Personalizing Coding Tutorials

2023/10 - 2024/04

University of Michigan, School of Information

Advised by Dr Steve Oney

Investigated the potential of Large Language Models (LLMs) to produce personalized coding tutorials for people with different educational backgrounds and language preferences.

Visualizing Sorting Algorithms (awarded Distinction)

2020/06 - 2020/08

University of St Andrews, School of Computer Science

Advised by Dr Uta Hinrichs and Dr Ruth Hoffmann

Developed interactive visualizations for bubble, merge, sleep, and pancake sorting algorithms to improve comprehension and engagement with abstract concepts.

Industry Experience

UX Research Intern

RELAYTO/

Remote, 2023/06 - 2023/08

Led UX research by conducting user interviews to identify expectations and uncover gaps, collaborated with cross-functional teams to streamline the user onboarding process, and mentored fellow interns by providing constructive feedback on their proposals.

Habidatum

Remote, 2023/07 - 2023/08

Developed interview protocols and alternative surveys for real estate brokers and property owners, and reached out to over 2,000 users for interviews and surveys, driving key product insights.

Honors

Distinction in the Dissertation

University of St Andrews, 2020/09

2016-2017 Plant Protection Scholarship

Zhejiang University, 2017/12

Skills

Research Skills: Contextual Inquiry, Statistical Analysis, Interviews, Survey Design, Experimental Design, Usability Testing

Design Skills: Wireframing, Prototyping, AR/VR Design and Prototyping, Data Visualization

Technical Skills: Python, HTML, CSS, JavaScript, C#, Unity (MRTK3, Meta XR All-in-One)