Jiacheng Zhang

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Research Interests

Human-AI Interaction; User Interface Automation; End-user Interaction with LLMs

Education

09/2023 – Present **University of Michigan, Ann Arbor**
Ann Arbor, MI PhD in Information Science
Advisor: Steve Oney

08/2021 – 04/2023 **University of Michigan, Ann Arbor**
Ann Arbor, MI BSE in Computer Science Engineering (Dual Degree)

09/2019 – 08/2023 **Shanghai Jiao Tong University**
Shanghai, China BSE in Electrical and Computer Engineering (Dual Degree)

Professional Experience

09/2023 – present **Graduate Student Research Assistant**
Ann Arbor, MI *Advisor: Prof. Steve Oney*
Developed WebMemo, a web automation tool using large language models and dynamic hierarchical structures to enhance efficiency in collecting, organizing, and retrieving web data into structured formats.
Conducted a study to explore user needs and preferences of using AI in web automation through interviews, uncovering insights on balancing privacy, efficiency, and usefulness to inform future tool design.

04/2022 – 08/2023 **Research Assistant**
Ann Arbor, MI *Advisor: Prof. Andrew Owens*
Established a dataset of real-world visual and touch data that enables diverse visuo-tactile learning and applied the dataset to a variety of machine learning tasks.
Proposed a tactile-guided diffusion framework and used the visuo-tactile self-supervision pretraining method as a prompt for touch-to-image generation.

05/2022 – 09/2022 **Research Assistant, Summer Undergraduate Research in Engineering (SURE)**
Ann Arbor, MI *Advisor: Prof. Xinyu Wang, Prof. Tianyi Zhang*
Designed and developed a web automation system to intelligently scrape web content based on a small set of user demonstrations.

Publications - Conference Papers

C.5 **Zhang, J.**, Yang, C., Adar, E., Oney, S. (2024) WebMemo: A Mixed-Initiative System for Extracting and Structuring Web Content. *(In Submission, IUI 2025)*

C.4 **Zhang, J.**, Fan, C., Oney, S. (2024) Understanding Challenges and Needs of Using AI in Web Automation Systems. *(In Submission, CHI 2025)*

C.3 *(PDF)* Yang, F., **Zhang, J.**, Owens, A. (2023) Generating Visual Scenes from Touch. *In Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*

C.2 *(PDF)* Chen, W., Liu, X., **Zhang, J**., Lam, I. I., Huang, Z., Dong, R., Wang, X., Zhang, T. (2023) MIWA: Mixed-Initiative Web Automation for Better User Control and Confidence. *In Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST)*

C.1 *(PDF)* Yang, F., Ma, C., **Zhang, J.**, Zhu, J., Yuan, W., Owens, A. (2022) Touch and Go: Learning from Human-Collected Vision and Touch. *Advances in Neural Information Processing Systems (NeurIPS)*

Peer Review

2024 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)

2022 Neural Information Processing Systems Datasets and Benchmarks Track (NeurIPS)

Mentoring

04/2024 – 09/2024 Carl Fan, Master Student
UMich

05/2024 – 10/2024 Chen Yang, Undergraduate Student
UMich