

Jiacheng Zhang

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(updated Sept 2025)

Research Interests

Human-AI Interaction; User Interface Automation; Vision-Language Models

Education

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

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)

Work Experience

05/2025 – 08/2025 **Research Intern, Bosch Center for Artificial Intelligence**
Sunnyvale, CA Developing Vision-Language Model (VLM)-powered AI agents for automated scenario mining.

Research Experience

09/2023 – present **Graduate Student Research Assistant**
Ann Arbor, MI Advisor: Prof. Steve Oney
Developed user-centric web automation tools (with AI) and investigated user needs to inform the design of accessible, efficient interaction tools.

04/2022 – 08/2023 **Research Assistant**

Ann Arbor, MI Advisor: Prof. Andrew Owens

Explored visuo-tactile learning by building a real-world dataset and developing a tactile-guided diffusion framework for touch-to-image generation (and vice versa).

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

C.6 **Zhang, J.**, Li, J., Arab, M., Oney, S. (2025) Multi-Click: Cross-Tab Web Automation via Action Generalization (*UIST 2025*)
(PDF)

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

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

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

C.2 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)*
(PDF)

C.1 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)*
(PDF)

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

01/2025 – 04/2025 Jiawen Li, Undergraduate Student
UMich

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

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