

# Jiacheng Zhang

School of Information  
University of Michigan

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(updated Oct 2024)

## Research Interests

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

## Education

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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

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09/2023 – present **Graduate Student Research Assistant**  
Ann Arbor, MI Advisor: Prof. Steve Oney

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

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- C.5 **Zhang, J.**, Yang, C., Adar, E., Oney, S. (2024) WebMemo: A Mixed-Initiative System for Extracting and Structuring Web Content. *(In Submission)*
- C.4 **Zhang, J.**, Fan, C., Oney, S. (2024) Understanding Challenges and Needs of Using AI in Web Automation Systems. *(In Submission)*
- C.3 Yang, F., **Zhang, J.**, Owens, A. (2023) Generating Visual Scenes from Touch. *In (PDF) Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*
- 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)*
- 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)*

## Peer Review

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- 2024 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)
- 2022 Neural Information Processing Systems Datasets and Benchmarks Track (NeurIPS)

## Mentoring

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- 04/2024 – 09/2024 Carl Fan, Master Student  
UMich
- 05/2024 – 10/2024 Chen Yang, Undergraduate Student  
UMich