Jiawen Li

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Research Interests

Human–Computer Interaction (HCI),Human-AI Interaction, Web Automation, Intelligent User Interfaces

Education

2024 – 2026	**University of Michigan**, Ann Arbor, MI B.S. in Data Science Engineering (Dual Degree Program)
2022 – 2026	**Shanghai Jiao Tong University**, Shanghai, China B.S. in Mechanical Engineering (Dual Degree Program)

Publications

Conference Proceedings

2025	**[C.3] ALLOY: Generating Reusable Agent Workflows from User Demonstration** *Li, J.*, Ning, Z., Tian, Y., Li, T. *(In Submission to IUI 2026)*
2025	**[C.2] Dark Patterns Meet GUI Agents: LLM Agent Susceptibility to Manipulative Interfaces and the Role of Human Oversight** Tang, J., Chen, C., *Li, J.*, Zhang, Z., Guo, B., Khalilov, I., Gebreegziabher, S. A., Yao, B., Wang, D., Ye, Y., Li, T., Xiao, Z., Yao, Y., Li, T. J.-J. *(In Submission to CHI 2026)*
2025	**[C.1] Multi-Click: Cross-Tab Web Automation via Action Generalization** Zhang, J., *Li, J.*, Arab, M., Oney, S. *Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2025)*

Demos / Posters

2025   **[D.1] AgentPbD: Interactive Agentic Workflow Generation from User Demonstration on Web Browsers**
Li, J., Ning, Z., Tian, Y., Li, T.
IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2025), Demo Track

Journals

2025   **[J.1] Towards Zero-Shot Robot Tool Manipulation in Industrial Context: A Modular VLM Framework Enhanced by Multimodal Affordance Representation**
Zhou, Q., Gu, Y., *Li, J.*, Feng, B., Li, B., Bi, Y.
Robotics and Computer-Integrated Manufacturing

Research Experience

Jun 2025 – Sept 2025   **University of Notre Dame**
Undergraduate Research Assistant
Advisor: Prof. Toby Jia-jun Li
Developed **ALLOY**, a demonstration-to-workflow browser extension that abstracts user interactions into parametric graphs and generalizes them into reusable agent workflows via LLM and MCP frameworks.

Jan 2025 – Apr 2025   **University of Michigan**
Undergraduate Research Assistant
Advisor: Prof. Steve Oney
Built **MultiClick**, a browser-based HCI system enabling cross-tab action generalization and automation using web scraping, service workers, and React-based interaction visualization.

Jan 2024 – May 2024   **Shanghai Jiao Tong University**
Undergraduate Research Assistant
Advisor: Prof. Youyi Bi
Designed a zero-shot robotic operation framework integrating reinforcement learning and knowledge transfer via Unity3D simulations to improve industrial task generalization.

Teaching Experience

Teaching Assistant

FA2023 **VG101: Introduction to Computer and Programming**, UM–SJTU Joint Institute
Led labs, discussions, and office hours each week, and graded assignments for 100+ students.
Received the Excellent Teaching Assistant Award (2023).

Industry Experience

Jul 2023 – Sept 2023 **Data Analyst Intern, XD Inc.** – Shanghai, China
Performed player behavior analysis and text mining using BERT, SQL, and Python for the game *Sword of Suzuliana*, providing data-driven UX optimization recommendations.

Honors and Awards

May 2024 **Excellent Teaching Assistant Award**, UM–SJTU Joint Institute

Jan 2024 **Third Prize**, China Undergraduate Mathematical Contest in Modeling (CSIAM)

Technical Skills

Programming Languages: C/C++, Python, HTML/CSS/JavaScript, TypeScript, SQL, R, MATLAB, C#
Frameworks & Tools: LangChain, OpenAI Agents SDK, React, Vue, Flask, Unity3D, RStudio, SolidWorks, Manifest V3