

# Yuwei Xiao

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## EDUCATION

**University of California, Los Angeles**

Ph.D in Computer Science

Advisor: Eunice Jun

Los Angeles, California, USA

September 2024 - Present

**Southern University of Science and Technology**

Bachelor of Engineering in Computer Science

Shenzhen, Guangdong, China

September 2020 - July 2024

## RESEARCH INTERESTS

Human-Computer Interaction, Data Visualization, Sense-making, Human-AI Collaboration, Knowledge Management

## RESEARCH EXPERIENCE

**University of California, Los Angeles - Computation & Discovery Lab**

Graduate Research Assistant

Mentor: Eunice Jun

Los Angeles, California, USA

2024 - Present

Developing visualization-driven interactive systems to support belief-driven data analysis and intention-aware academic reading, enabling users to externalize, refine, and act on their knowledge.

**University of California, San Diego - Data Smith Lab**

Undergraduate Research Assistant

Mentor: Haojian Jin

La Jolla, California, USA

2023

Developed an interactive visualization tool that enables users to probe the internal states of black-box IoT devices and build accurate mental models of their behavior.

**Southern University of Science and Technology - Database Group**

Undergraduate Research Assistant

Mentor: Qiaomu Shen

Shenzhen, Guangdong, China

2022 - 2023

Developed algorithms for space-efficient and logic-preserving visualization of temporal directed acyclic graphs as Gantt charts to support analysis of distributed query executions.

## PUBLICATIONS

[P2] **Xiao, Y.**, Ma, S., Oulasvirta, A., & Jun, E. (2025). PriorWeaver: Prior Elicitation via Iterative dataset Construction. arXiv preprint arXiv:2510.06550. [\[paper\]](#) (Under Review)

[W1] **Xiao, Y.**, Pai, O., Roysar, B., Shi, M., & Jun, E. (2025). Demonstration of ReadFlect: Scaffolding Intent-driven, Multi-session, and Reflective Reading of Academic Papers. In Adjunct Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology (pp. 1-4). [\[paper\]](#)

[P1] Sun, W.<sup>\*</sup>, **Xiao, Y.<sup>\*</sup>**, Jin, H., & Bharadia, D. (2023). On the Feasibility of Reasoning about the Internal States of Blackbox IoT Devices Using Side-Channel Information. arXiv preprint arXiv:2311.13761. [\[paper\]](#)

## TEACHING EXPERIENCE

CS 202: Computer Organization, Southern University of Science and Technology

Spring 2023

CS 109: Introduction to Computer Programming, Southern University of Science and Technology

Spring 2023

## SERVICE

CHI Student Volunteer - 2025

## INDUSTRY EXPERIENCE

**Tapall.AI**

Software Engineer Intern

Developed a multi-modal user interface for video authoring.

Shenzhen, Guangdong, China

2023