

RUQI SUN

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Website ◇ GitHub ◇ LinkedIn

EDUCATION

Southern University of Science and Technology

B.Eng. in Computer Science and Engineering

GPA: 3.74/4.00 | **Advisor: Prof. Yuxin Ma**

Sep 2024 - Jul 2028

Shenzhen, China

National University of Singapore

NUS School of Computing Summer Workshop

Ranked 1st in the UI/UX Design cluster (A+) | Advisor: Prof. Bimlesh Wadhwa

Jun 2025 - Jul 2025

Singapore

RESEARCH INTERESTS

Human-centered AI · Visualization · AI-augmented creativity

PUBLICATIONS

- [1] **Ruqi Sun**, Jiaping Li, Wenhui Tao, Ximing Zheng, Yuefeng Tan, Jiahao Wei, and Yuxin Ma[†].
“VeriForge: Mitigating Latent Knowledge Gaps in Narrative Drafting via Mixed-Initiative Scaffolding.”
ACM UIST 2026, conditionally accepted.
- [2] Huanchen Wang, Qiuming Chen, Zhonghao Ji, **Ruqi Sun**, Zhichao Lu, and Yuxin Ma[†].
“SiMUSation: An Interactive Visitor Experience Simulation Framework to Support Museum Exhibition Design.”
ACM UIST 2026, conditionally accepted.

[†] Corresponding author.

RESEARCH EXPERIENCE

Decision Provenance in Agent-Assisted Visualization [CHI '27, in preparation]

Project Lead, First Author, VIA Lab (UC Davis) & DVA Lab (SUSTech)

Advisors: Prof. Dongyu Liu and Prof. Yuxin Ma

July 2026 – Present

Davis, CA, USA

- Co-designed and analyzed a formative study of how users create visualizations with coding agents, revealing a gap between chart production and users’ understanding of chart types, encodings, transformations, and metric choices.
- Translating these findings into interaction techniques that capture and expose agent decision provenance for user review and revision.

Mixed-Initiative AI for Narrative Writing [UIST '26, conditionally accepted]

Project Lead, First Author, DVA Lab, SUSTech | Advisor: Prof. Yuxin Ma

Nov 2025 – Apr 2026

Shenzhen, China

- Led the project from idea to publication, framing latent knowledge gaps as a key barrier in knowledge-grounded narrative writing and proposing a mixed-initiative approach that preserves author agency.
- Designed and implemented VeriForge end to end, including a graph-based RAG backend in Neo4j and FastAPI and an interactive Vue 3 and TypeScript interface.
- Conducted formative interviews (N=9) and a within-subjects study (N=12); VeriForge received significantly higher blind-spot alerting and Creativity Support Index scores, while blind expert ratings provided preliminary evidence of stronger domain grounding.

RESEARCH EXPERIENCE (CONTINUED)

Visitor Simulation for Museum Exhibition Design [UIST '26, conditionally accepted] 2025 – Present
Co-author, DVA Lab, SUSTech | Advisor: Prof. Yuxin Ma *Shenzhen, China*

- Translated prior experience as a volunteer docent at the Jilin Provincial Museum into a model of visitor experience that considers both observable behavior and internal responses.
- Shaped the research questions and formative study, and led the recruitment of seven participants from museums and cultural institutions.

AI-Assisted Branching Narrative Authoring [Manuscript in preparation] Dec 2025 – Present
Co-author, DVA Lab, SUSTech | Advisor: Prof. Yuxin Ma *Shenzhen, China*

- Co-designed a formative interview study with seven experienced branching-narrative creators, translating their workflows and human–AI collaboration needs into system design requirements.
- Co-designed a two-part user evaluation (N=12) combining counterbalanced within-subjects structural-maintenance tasks with open-ended authoring, think-aloud protocols, questionnaires, and interviews.

User-Controlled Context for Cross-Document Analysis [Manuscript in preparation] Jan 2026 – Present
Co-author, DVA Lab, SUSTech | Advisor: Prof. Yuxin Ma *Shenzhen, China*

- Contributed extensively to ideation and helped define baskets as the core interaction concept for composing persistent evidence scopes that directly control AI generation.
- Contributed substantially to manuscript writing and visual communication, including system figures and diagrams.

SKILLS

Technical & Design: Python, TypeScript, Vue 3, FastAPI, Neo4j, Figma, L^AT_EX

Research Methods: Formative Interviews, Mixed-Methods User Studies, Within-Subjects Experiments, Think-Aloud Studies, Usability Evaluation, Qualitative Coding, Statistical Analysis

Languages: English (IELTS 7.5: L 8.5, R 8.0, W 7.0, S 6.5), Mandarin Chinese (Native)