

Qing SHI (石青)

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 [Qing SHI-profile](#) |  [sqsss](#)

Guangzhou, Guangdong, China

Research Interests

My research interests focus on designing human-centered interactive systems that use AI and visualization to support learning, reasoning, collaboration, and sensemaking while preserving human agency.

- **AI for Education:** Interactive AI tools that scaffold critical thinking, reasoning, reflection, knowledge construction, and self-regulated learning.
- **Human-Computer Interaction and Human-AI Collaboration:** Human-centered systems that support sensemaking, collaboration, decision-making, and agency in AI-assisted workflows.
- **Visualization and Visual Analytics:** Visual representations and interactive analytics systems for understanding complex cognitive, social, financial, and behavioral data.

Education

- **The Hong Kong University of Science and Technology (Guangzhou)** Sept. 2024 - Oct. 2026
Master of Philosophy (M.Phil.) in Computational Media and Arts
◦ **Supervisor:** Prof. Mingming FAN and Prof. Weikai YANG
◦ **Research Group:** Augmenting People via Empowering X Group [[APEX Group](#)]
◦ **Thesis Title:** MindWeaver: Scaffolding Critical Thinking via Direct Manipulation of Reasoning Structures.
- **Zhejiang University of Finance and Economics** Sept. 2018 - Jun. 2022
Bachelor of Engineering (B.Eng.) in Software Engineering
◦ **Supervisor:** Prof. Zhiguang ZHOU and Prof. Yuhua LIU
◦ **Thesis Title:** Visual Analysis of Economic Decision-Making and Wealth Change under Simulated Situations.

Experience

- **The Hong Kong University of Science and Technology (Guangzhou)** Jan. 2024 - Aug. 2024
Research Assistant Remote
◦ **Research Group:** Augmenting People via Empowering X Group [[APEX Group](#)]
◦ **Supervisor:** Prof. Mingming FAN
◦ Conducted HCI research on AI-assisted UX design workflows, focusing on usability video analysis, issue synthesis, and design problem solving.
◦ Designed and developed an AI-assisted multi-video analysis prototype that helps UX designers analyze multiple usability testing videos, identify recurring usability issues, and synthesize user behavior patterns.
◦ Designed and developed an AI-assisted usability issue resolution prototype that supports UX designers in translating identified usability problems into actionable design recommendations and iterative interface improvements.

Selected Publications [[Google Scholar](#)]

C=CONFERENCE, J=JOURNAL, P=PATENT, T=THESIS

First / Co-first Author Publications (# - equal contribution, * - corresponding):

- [J.1] Shishi Xiao[#], **Qing Shi**[#], Lingdan Shao, Bo Du, Yang Wang, Qiaomu Shen, Wei Zeng, “MetroBUX: A Topology-Based Visual Analytics for Bus Operational Uncertainty EXploration,” in *IEEE Transactions on Intelligent Transportation Systems*, vol. 25, no. 6, June 2024, doi: [10.1109/TITS.2023.3338700](https://doi.org/10.1109/TITS.2023.3338700). (CCF-B)

Co-author Publications

- [J.8] Yi-Fan Cao, **Qing Shi**, Liangwei Wang, Leo Yu-Ho Lo, Lin Chen, Yuzi Han, Yang Wang, and Kani Chen, “SocialFiVis: A Visual Analytics Sandbox for LLM-Grounded Multi-Agent Simulation in Social Finance,” in *IEEE Transactions on Visualization and Computer Graphics*, 2026. (CCF-A, Accepted (Oral) to IEEE VIS 2026)
- [J.7] Luyao Shen, **Qing Shi**, Emily Kuang, Linjie Qiu, Shixu Zhou, Pan Hui, and Mingming Fan, “MultiUX: A Human-AI Collaborative Tool to Facilitate Multiple Usability Test Video Analyses,” in *International Journal of Human-Computer Interaction*, pp. 1–26, 2026, doi: [10.1080/10447318.2025.2605526](https://doi.org/10.1080/10447318.2025.2605526). (CCF-B)
- [J.6] Jianing Hao, Manling Yang, **Qing Shi**, Yuzhe Jiang, Guang Zhang, and Wei Zeng, “FinFlier: Automating Graphical Overlays for Financial Visualizations with Knowledge-Grounding Large Language Model,” in *IEEE Transactions on Visualization and Computer Graphics*, vol. 31, no. 9, pp. 6353–6369, 2025, doi: [10.1109/TVCG.2024.3514138](https://doi.org/10.1109/TVCG.2024.3514138). (CCF-A, Invited Oral Presentation at IEEE VIS 2025)

- [J.5] Bingyuan Wang, **Qing Shi**, Xiaohan Wang, You Zhou, Wei Zeng, and Zeyu Wang, “EmotionLens: Interactive Visual Exploration of the Circumplex Emotion Space in Literary Works via Affective Word Clouds,” in *Visual Informatics*, vol. 9, no. 1, pp. 84–98, 2025, doi: [10.1016/j.visinf.2025.02.003](https://doi.org/10.1016/j.visinf.2025.02.003). (CCF-C)
- [J.4] Yifan Cao, **Qing Shi**, Lue Shen, Kani Chen, Yang Wang, Wei Zeng, and Huamin Qu, “NFTracer: Tracing NFT Impact Dynamics in Transaction-Flow Substitutive Systems with Visual Analytics,” in *IEEE Transactions on Visualization and Computer Graphics*, vol. 31, no. 8, pp. 4369–4386, 2025, doi: [10.1109/TVCG.2024.3402834](https://doi.org/10.1109/TVCG.2024.3402834). (CCF-A, Invited Oral Presentation at IEEE VIS 2024)
- [J.3] Jianing Hao, **Qing Shi**, Yilin Ye, and Wei Zeng, “TimeTuner: Diagnosing Time Representations for Time-Series Forecasting with Counterfactual Explanations,” in *IEEE Transactions on Visualization and Computer Graphics*, vol. 30, no. 1, pp. 1183–1193, 2024, doi: [10.1109/TVCG.2023.3327389](https://doi.org/10.1109/TVCG.2023.3327389). (CCF-A, Accepted (Oral) to IEEE VIS 2023)
- [J.2] Yuhua Liu, Yuming Ma, **Qing Shi**, Jin Wen, Wanjun Zheng, Xuanwu Yue, Hang Ye, Wei Chen, Yuwei Meng, and Zhiguang Zhou, “EBPVis: Visual Analytics of Economic Behavior Patterns in a Virtual Experimental Environment,” in *Computer Graphics Forum*, vol. 43, no. 6, 2024, doi: [10.1111/cgf.15200](https://doi.org/10.1111/cgf.15200). (CCF-B)
- [J.1] Yuhua Liu, **Qing Shi**, Fengling Zheng, Wanying Xie, Shuhuan Han, and Zhiguang Zhou, “Visual Analysis of Economic Decision-Making and Wealth Change under Simulated Situations,” in *Journal of Computer-Aided Design & Computer Graphics*, vol. 33, no. 8, 2021, doi: [10.3724/SP.J.1089.2021.18645](https://doi.org/10.3724/SP.J.1089.2021.18645) (EI, in Chinese).

Honors and Awards

- **Best Poster Honorable Mention Award, ChinaVIS 2022** Jul. 2022
 - Visual Exploration of Bus Arrival Time Uncertainty
- **Third Prize, ZUFE Outstanding Graduation Thesis (Design)** Jul. 2022
 - Visual Analysis of Economic Decision-Making and Wealth Change under Simulated Situations.

Service

- **Reviewer and Volunteer**
 - **Conference:** CHI 2026 Poster
 - **Volunteer:** VINCI 2023 (Web Chair)

Additional Information

Languages: Mandarin Chinese (Native), English