Jiayi Zhou

The Hong Kong University of Science and Technology
+852 5958 0534 | jzhoudp@connect.ust.hk | Website

Education

The Hong Kong University of Science and Technology — Hong Kong, China
Ph.D. Student in the Individualized Interdisciplinary Program — *Sept. 2024 – present*
Advisors: Prof. Huamin Qu and Prof. Anyi Rao

Zhejiang University — Hangzhou, China
B.Eng. in Industrial Design (Outstanding Graduates) — *Sept. 2020 – Jun. 2024*
GPA: 3.94/4.00

Research Interests

My research interest lies in Human–Computer Interaction. I am curious about how creators "connect the dots" in storytelling amidst the explosion of information. Through user studies and prototype development, I investigate how advanced AI technologies–such as generative AI and computer vision–can better support and empower visual storytelling practices.

Experience

Research Intern at the Interactive Data Group, Zhejiang University — Hangzhou, China
Advisor: Prof. Yingcai Wu and Prof. Tan Tang — *Mar. 2022 – Jun. 2024*

- **Understanding Nonlinear Collaboration between Human and AI Agents: A Co-design Framework for Creative Design**
  - Conducted a formative study to investigate human-human co-design and formulated guidelines for human-AI co-design.
  - Proposed a nonlinear human-AI co-design framework and developed a proof-of-concept prototype.
  - Conducted a evaluation study and proposed four roles of AI in creative design.
- **Rigel: Transforming Tabular Data By Declarative Mapping**
  - Assisted in the user evaluation of Rigel, an expressive and user-friendly data transformation system that addresses the disambiguation and exploration issues based on the declarative mapping approach.
- **A Comparative Study on Fixed-order Event Sequence Visualizations: Gantt, Extended Gantt, and Stringline Charts**
  - Assisted in conducting two experiments to evaluate the effectiveness of fixed-order event sequence visualization.

Research Intern at the Guanyun Lab, Zhejiang University — Hangzhou, China
Advisor: Prof. Guanyun Wang — *Oct. 2021 – Mar. 2022*

- **Shoes++: A Smart Detachable Sole for Social Foot-to-foot Interaction**
  - Provided a comprehensive input vocabulary of foot-to-foot gestures, which was informed by a focus group co-design.
  - Prototyped an IMU-mounted sole that can easily adapt to various shapes of shoes, enabling "walk up and use" of our system in most social situations and validated its usability in a daily work setting.

Publications

[1] Anonymous author(s). "Collaposer: Transforming Photo Collections into Visual Assets for Storytelling with Collages". *Under revise & resubmit at CHI 2026*, first author.

[2] Anonymous author(s). "How Do Human Creators Embrace Human-AI Co-Creation? A Perspective on Human Agency of Screenwriters." *Under revise & resubmit at CHI 2026*, second author.

[3] **Jiayi Zhou**, Renzhong Li, Junxiu Tang, Tan Tang, Haotian Li, Weiwei Cui, Yingcai Wu. 2024. "Understanding Nonlinear Collaboration between Human and AI Agents: A Co-design Framework for Creative Design". In *Proceedings of the CHI Conference on Human Factors in Computing Systems* (CHI'24). doi: 10.1145/3613904.3642812.

[4] Junxiu Tang, Fumeng Yang, Jiang Wu, Yifang Wang, **Jiayi Zhou**, Lingyun Yu, Yingcai Wu. 2023. "A Comparative Study on Fixed-order Event Sequence Visualizations: Gantt, Extended Gantt, and Stringline Charts". *IEEE Transactions on Visualization and Computer Graphics* (TVCG). doi: 10.1109/TVCG.2024.3358919.

[5] Ran Chen, Di Weng, Yanwei Huang, Xinhuan Shu, **Jiayi Zhou**, Guodao Sun, Yingcai Wu. 2022. "Rigel: Transforming Tabular Data by Declarative Mapping". In *IEEE Transactions on Visualization and Computer Graphics* (TVCG), Proceedings of *IEEE Visualization and Visual Analytics Conference* (VIS'22). doi:10.1109/TVCG.2022.3209385.

[6] Zihan Yan, **Jiayi Zhou**, Yufei Wu, Guanhong Liu, Danli Luo, Zihong Zhou, Haipeng Mi, Lingyun Sun, Xiang 'Anthony' Chen, Ye Tao, Yang Zhang, and Guanyun Wang. 2022. "Shoes++: A Smart Detachable Sole for Social Foot-to-foot Interaction". In Proceedings of *the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (IMWUT'22). doi:10.1145/3534620.

Skills

Design	Figma, Adobe Creative Suite
Software Development	C, C++, Python, Web technologies (HTML, CSS, JavaScript, React)
Languages	Mandarin (native), English (proficient)
Hobbies	Rowing, Photography, Collage Creation