

HUANCHEN WANG

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RESEARCH INTERESTS

HCI, Visualization, Human-AI Collaboration, Creativity Support, Explainable AI

My research primarily focuses on HCI within the domains of creativity support and Human-AI collaboration, particularly in the context of Intangible Cultural Heritage (ICH) to better understand, communicate, and safeguard cultural knowledge. In addition, I am interested in interactive visual analytics, with an emphasis on Explainable AI (XAI) and multimodal models, aiming to enhance understanding, evaluation, and improvement of model performance.

EDUCATION

City University of Hong Kong (CityU)

Hong Kong SAR, China

Advisor: Prof. [Yuxin Ma](#), Prof. [Zhicong Lu](#), and Prof. [Zhichao Lu](#)

Ph.D. candidate of Computer Science under CityU-SUSTech Joint PhD Programme

2022.09 – Current

Southern University of Science and Technology (SUSTech)

Shenzhen, Guangdong, China

Advisor: Prof. [Xuan Song](#)

Bachelor of Engineering in Computer Science and Technology

2018.09 – 2022.07

PUBLICATIONS

Marks on author names: **bold**- myself

- [1] **VisMoDAI : Visual Analytics for Evaluating and Improving Corruption Robustness of Vision-Language Models**
Huanchen Wang*, Wencheng Zhang*, Zhiqiang Wang, Zhicong Lu, Yuxin Ma.
(* = equal contribution)
IEEE Transactions on Visualization and Computer Graphics (VIS '25), 2026. (to appear)
- [2] **Polymind: Parallel Visual Diagramming with Large Language Models to Support Prewriting Through Microtasks**
Qian Wan, Jiannan Li, **Huanchen Wang**, Zhicong Lu
Proceedings of the ACM on Human-Computer Interaction, 9(7):1-29 (CSCW '25), 2025.
- [3] **DanModCap: Designing a Danmaku Moderation Tool for Video-Sharing Platforms that Leverages Impact Captions**
Siying Hu, **Huanchen Wang**, Yu Zhang, Piaohong Wang, Zhicong Lu
Proceedings of the ACM on Human-Computer Interaction, 9(2):1-27 (CSCW '25), 2025.
- [4] **RAGTrace: Understanding and Refining Retrieval-Generation Dynamics in Retrieval-Augmented Generation**
Sizhe Chen*, Jiaping Li*, **Huanchen Wang**, Yuxin Ma
(* = equal contribution)
Proceedings of the 37th Annual ACM Symposium on User Interface Software and Technology (UIST '25), 2025.

- [5] **HarmonyCut: Supporting Creative Chinese Paper-cutting Design with Form and Connotation Harmony**
Huanchen Wang*, Tianrun Qiu*, Jiaping Li, Zhicong Lu, Yuxin Ma
 (* = equal contribution)
 Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI '25). 2025.
- [6] **Critical Heritage Studies as a Lens to Understand Short Video Sharing of Intangible Cultural Heritage on Douyin**
Huanchen Wang, Minzhu Zhao, Wanyang Hu, Yuxin Ma, Zhicong Lu
 Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI '24). 2024.
- [7] **Understanding Communication Strategies and Viewer Engagement with Science Knowledge Videos on Bilibili**
 Yu Zhang, Changyang He, **Huanchen Wang**, Zhicong Lu
 Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI '23). 2023.
- [8] **A Geomagnetic Sensor Dataset for Traffic Flow Prediction**
Huanchen Wang*, Qunjun Chen*, Zheng Dong, Xuan Song, Hao Tian, Donglong Yang, Manxia Liu
 (* = equal contribution)
 IEEE International Conference on Big Data (Big Data '22). 2022.
- [9] **Learning Latent Road Correlations from Trajectories**
 Zheng Dong, Qunjun Chen, Renhe Jiang, **Huanchen Wang**, Xuan Song, Hao Tian
 IEEE International Conference on Big Data (Big Data '22). 2022.

SELECTED AWARDS AND HONORS

- Postgraduate Scholarship, SUSTech & CityU 2022 – 2026
- Third-class Outstanding Freshmen Scholarship, SUSTech 2018

ACADEMIC SERVICES

- Reviewer, ACM CHI 2023 – 2026
- Reviewer, ACM CSCW 2024 – 2025
- Reviewer, ACM UIST 2025
- Reviewer, IEEE PacificVis (Journal Track) 2026
- PC Member of Special Track on Cultural Heritage, VINCI 2025
- Reviewer, ICHEC (Chinese CHI) 2024-2025
- Reviewer, ChinaVis 2024

TEACHING

- CS5489 Machine Learning: Algorithm & Applications (TA), CityU Fall 2025
- CS2303 Data Structures for Media (TA), CityU Spring 2023
- JC2066 IT Professionals: Ethical, Legal and Social Issues (TA), CityU Fall 2022