

# HUANCHEN WANG

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## RESEARCH INTERESTS

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### 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

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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

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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 Cheng\*, 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\***, Qianjun 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, Qianjun Chen, Renhe Jiang, **Huanchen Wang**, Xuan Song, Hao Tian  
 IEEE International Conference on Big Data (Big Data '22). 2022.

## SELECTED AWARDS AND HONORS

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

## ACADEMIC SERVICES

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| • 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

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- |   |             |
|---|-------------|
| • 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   |