

# Yingchaojie Feng

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## RESEARCH INTERESTS

### Data Visualization, Human-Computer Interaction, Natural Language Processing, Digital Humanity

Specifically, I design and develop visual and interactive systems to facilitate user comprehension and utilization of NLP models in downstream tasks, including creative tasks (e.g., text-to-image, painting-to-poetry) and analytical tasks (e.g., natural language-based visual data analysis). Recently, I have also focused on 1) visual explanation and diagnosis of large language models (LLM) and 2) LLM-powered data analysis.

## EDUCATION

2020- **Ph.D. Candidate in Computer Technology**, Zhejiang University  
Advisor: Prof. Wei Chen

2016-2020 **B.Eng. in Software Engineering**, Zhejiang University of Technology

## PUBLICATIONS

### Peer-reviewed Conferences and Journal Papers

- 2024 Jiaying Lu, Bo Pan, Jieyi Chen, **Yingchaojie Feng**, Jingyuan Hu, Yuchen Peng, and Wei Chen. **AgentLens: Visual Analysis for Agent Behaviors in LLM-based Autonomous Systems**. IEEE Transactions on Visualization and Computer Graphics, Early Access, 2024.
- 2023 **Yingchaojie Feng**, Xingbo Wang, Kam Kwai Wong, Sijia Wang, Yuhong Lu, Minfeng Zhu, Baicheng Wang, and Wei Chen. **PromptMagician: Interactive Prompt Engineering for Text-to-Image Creation**. IEEE Transactions on Visualization and Computer Graphics (VIS' 23), 2023.
- 2023 **Yingchaojie Feng**, Xingbo Wang, Bo Pan, Kam Kwai Wong, Yi Ren, Shi Liu, Zihan Yan, Yuxin Ma, Huamin Qu, Wei Chen. **XNLI: Explaining and Diagnosing NLI-based Visual Data Analysis**. IEEE Transactions on Visualization and Computer Graphics, Early Access, 2023.
- 2023 Wei Zhang, Jian-Wei Zhang, Kam Kwai Wong, Yifang Wang, **Yingchaojie Feng**, Luwei Wang, Wei Chen. **Computational Approaches for Traditional Chinese Painting: From the 'Six Principles of Painting' Perspective**. Journal of Computer Science and Technology. (Accepted)
- 2022 **Yingchaojie Feng**, Jiazhou Chen, Keyu Huang, Jason K. Wong, Hui Ye, Wei Zhang, Rongchen Zhu, Xiaonan Luo, Wei Chen. **iPoet: Interactive Painting Poetry Creation with Visual Multimodal Analysis**. Journal of Visualization, 25(3):671-685, 2022.
- 2021 **Yingchaojie Feng**, Zihan Zhou, Wei Zhang, Siwei Tan, Ruimin Shao, Jiazhou Chen, Wei Chen. **WPFY: a Visual Interactive Creation System for Chinese Classical Poetry**. Journal of Computer-Aided Design and Computer Graphics, 33(09):1318-1325. 2021. (in Chinese)
- 2021 Jiazhou Chen, Keyu Huang, **Yingchaojie Feng**, Wei Zhang, Siwei Tan, Wei Chen. **Automatic Poetry Generation Based on Ancient Chinese Paintings**. Journal of Computer-Aided Design and Computer Graphics, 33(07):1038-1044. 2021. (in Chinese)
- 2021 Haiyang Zhu, Minfeng Zhu, **Yingchaojie Feng**, Deng Cai, Yuanzhe Hu, Shilong Wu, Xiangyang Wu, Wei Chen. **Visualizing Large-Scale High-Dimensional Data via Hierarchical Embedding of KNN Graphs**. Visual Informatics 5 (2), 51-59, 2021.

- 2021 Yanyan Wang, Zhanning Bai, Zhifeng Lin, Xiaoqing Dong, **Yingchaojie Feng**, Jiacheng Pan, Wei Chen. **G6: a Web-Based Library for Graph Visualization**. *Visual Informatics* 5 (4), 49-55, 2021.

### Preprints and Manuscripts

- 2024 **Yingchaojie Feng**, Zhizhang Chen, Zhining Kang, Sijia Wang, Minfeng Zhu, Wei Zhang, and Wei Chen. **JailbreakLens: Visual Analysis of Jailbreak Attacks Against Large Language Models**. Submitted to IEEE VIS 2024. Under Review.
- 2024 Luoxuan Weng, Xingbo Wang, Junyu Lu, **Yingchaojie Feng**, Yihan Liu, and Wei Chen. **InsightLens: Discovering and Exploring Insights from Conversational Contexts in Large-Language-Model-Powered Data Analysis**. Submitted to IEEE VIS 2024. Under Review.
- 2024 Bo Pan, Jiaying Lu, Ke Wang, Li Zheng, Zhen Wen, **Yingchaojie Feng**, Minfeng Zhu, Wei Chen. **AgentCoord: Visually Exploring Coordination Strategy for LLM-based Multi-Agent Collaboration**. Submitted to IEEE VIS 2024. Under Review.
- 2024 Wei Zhang, Wong Kam-Kwai, Biying Xu, Yiwen Ren, Yuhuai Li, Minfeng Zhu, **Yingchaojie Feng**, Wei Chen. **CultiVerse: Towards Cross-Cultural Understanding for Paintings with Large Language Model**. Submitted to IEEE VIS 2024. Under Review.

### INDUSTRY EXPERIENCE

- 2022 **OPPO Mobile Communications, Research Intern**  
Designed and developed a tool (Figma plugin) for automatic code generation for Figma design drafts.

### PRESENTATIONS

- 2023 **PromptMagician: Interactive Prompt Engineering for Text-to-Image Creation**  
Conference Presentation at IEEE VIS 2023  
Invited Talk at ChinaVis 2023  
Invited Talk at the 16th China R conference and 2023 X-AGI conference
- 2023 **Explainable Natural Language Interface for Visual Data Analysis**  
Invited Talk at the Department of Data Technology and Product, Aicheng Technology, Alibaba.
- 2021 **iPoet: Interactive Painting Poetry Creation with Visual Multimodal Analysis**  
Conference Presentation at ChinaVis 2021

### GRANTS AND AWARDS

#### Awards and Honors

- 2023 **First Prize** in Academic Excellence Scholarship, Zhejiang University
- 2020 **Outstanding Graduate**, Zhejiang University of Technology
- 2019 **First Prize** in the Zhejiang Provincial University Students Service Outsourcing Innovation and Application Competition
- 2018 **Honorary title of "Outstanding Student"**, Zhejiang University of Technology
- 2017-2019 Academic Scholarship, Zhejiang University of Technology

## **PROFESSIONAL SERVICE**

### **Conference Reviewing**

2022-2023 ACM CHI, CHI LBW

2023 EuroVis

2023 PacificVis

2023 ChinaVis

### **Journal Reviewing**

2023 Computational Visual Media (CVM)

### **Community Service**

2023 Student Volunteer, IEEE VIS' 23

### **Teaching Assistant**

2022-2023 Frontiers of Big Data Visualization (Lecturer: Prof. Wei Chen), Zhejiang University

Updated May 2024