

Fengjie Wang (王凤杰)

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Research Interest

- Human-Computer Interaction
- Interactive Tools for Data Science
- Presentation Support for Computational Notebooks

Education

Sichuan University	Chengdu, China
Computer Science and Technology, Master	2021.09 - 2024.06
<ul style="list-style-type: none">• GPA: 3.65/4.0• Supervisor: Prof. Min Zhu	
Sichuan University	Chengdu, China
Computer Science and Technology, Bachelor	2017.09 - 2021.06
<ul style="list-style-type: none">• GPA: 3.85/4.0 (Top 3%)	

Experience

Hong Kong University of Science and Technology	Hong Kong, China
Visiting Student Researcher at the HKUST VisLab	2023.05 - 2023.10
<ul style="list-style-type: none">• Research on interactive and AI-powered tools for computational notebooks• Participate in research projects on automated construction of multiple charts for the interpretation of analytical results• Supervised by Prof. Huamin Qu	
University of Waterloo	Waterloo, Canada
Visiting Student Researcher at the Waterloo Visualization (WatVis) Group	2022.05 - 2022.09
<ul style="list-style-type: none">• Research on human-AI collaborative tools to provide presentation support for computational notebooks• Supervised by Prof. Jian Zhao	

Publication & Patent

- C.1 Fengjie Wang**, Xuye Liu, Oujing Liu, Ali Neshati, Tengfei Ma, Min Zhu and Jian Zhao. 2023. Slide4N: Creating Presentation Slides from Computational Notebooks with Human-AI Collaboration. Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI 2023).
- C.2 Fengjie Wang**, Yanna Lin, Leni Yang, Haotian Li, Minyang Gu, Min Zhu and Huamin Qu. 2024. *** Computational Notebooks through Outlines. (CHI 2024, Conditionally Accepted).
- C.3** Wenwen Gao, Shangsong Liu, Yi Zhou, **Fengjie Wang**, Feng Zhou and Min Zhu. 2023. GBDT4CTRVis: Visual Analytics of Gradient Boosting Decision Tree for Advertisement Click-Through Rate Prediction. Journal of Visualization (ChinaVis 2023).
- C.4** Jianben He, Xingbo Wang, Kamkwai Wong, Xijie Huang, Changjian Chen, Zixin Chen, **Fengjie Wang**, Min Zhu and Huamin Qu. 2023. VideoPro: A Visual Analytics Approach for Interactive Video Programming. IEEE Transactions on Visualization and Computer Graphics (VIS 2023).
- J.1** Fuqiu Chen, Jizhuo Li, **Fengjie Wang**, Shangsong Liu, Xiaolin Wen, Pengyuan Li and Min Zhu. 2023. WarehouseLens: Visualizing and Exploring Turnover Events of Digital Warehouse. Journal of Visualization.
- J.2** Xiaolin Wen, Yong Wang, Meixuan Wu, **Fengjie Wang**, Xuanwu Yue, Qiaomu Shen, Yuxin Ma and Min Zhu. 2023. DiffSeer: Difference-Based Dynamic Weighted Graph Visualization. IEEE Computer Graphics and Applications.
- J.3** Xinyi Zhang, Xiaobing Pang, Xiaolin Wen, **Fengjie Wang**, Changlin Li and Min Zhu. 2022. TriPlan: an Interactive Visual Analytics Approach for Better Tourism Route Planning. Journal of Visualization.
- P.1** Min Zhu, **Fengjie Wang**, Longxing Li, Fuqiu Chen and Yubo Zhou. 2022. A State-aware Meta-visualization Method for Exploratory Data Analysis. China Patent App. CN115061760A.

Project

Visual Analytics for Cybersecurity Situation Perception	Chengdu, China
Project Leader	2021.07 - 2023.06
<ul style="list-style-type: none">• Aim to facilitate the perception of the cybersecurity situation and support interactive deduction• Expect to receive an RMB 800K grant from China Electronics Research Institute• Lead the project, coordinate with the industrial collaborators, and prepare the proposal	
Interactive Tool for Exploratory Data Analysis	Chengdu, China
Project Leader	2021.03 - 2023.06
<ul style="list-style-type: none">• Aim to facilitate exploratory data analysis by visualizing the analysis process and recommending relevant visualizations• Design and implement the interactive tool• Apply for a patent and submit a paper to ChinaVis23	
Visual Analytics for Food Safety	Chengdu, China
Project Core Member	2022.10 - 2023.06
<ul style="list-style-type: none">• Analyze food safety risks and hazards based on market surveillance data to assist in decision-making• Receive an RMB 500K grant from Sichuan Market Supervision Administration• Responsible for analyzing and visualizing data, and writing analysis reports	
Assisting Ramp Workers in Decision-making with Human-AI Collaboration	Chengdu, China
Project Coordinator	2022.01 - 2022.03
<ul style="list-style-type: none">• Apply for National Natural Science Grant in Civil Aviation• Aim to enhance efficiency of ramp operations by multimodal ramp data visualization and interactive decision analytics• Coordinate the project and participate in the proposal preparation (e.g., the domain knowledge graph construction)	

Award and Honor

* National Scholarship of China	2023.10
* First Class Scholarship of Sichuan University for Graduate Students	2023.09
* Outstanding Graduate Students of Sichuan Province	2023.09
Outstanding Graduate Students of Sichuan University	2022.10
Third Award, ChinaVis2022 Visual Analytics Challenge	2022.07
* Star of Computer Science in Sichuan University	2021.06
Outstanding Undergraduate Students of Sichuan Province	2021.04
Excellent Completion of Provincial Student Innovation Training Project	2020.06
Meritorious Winner of the International Mathematical Contest in Modeling (MCM) by COMAP	2019.05
* National Scholarship of China	2019.12
First Class Scholarship of Sichuan University for Undergraduate Students	2019.11

Student Service

Undergraduate Mentor	Chengdu, China
Vision Computing Lab, Sichuan University	2021.09 - 2022.08
Teaching Assistant for Undergraduate	Chengdu, China
Introduction to Data Visualization, Sichuan University	2021.09 - 2022.01
Student Union Executive Committee	Chengdu, China
College of Computer Science, Sichuan University	2018.09 - 2019.07
Student Volunteer	Yunnan, China
Caring for Students in Difficulties, Sichuan University	2019.07

Coding Skill

- **Front-end:** React, Vue, Ant Design, TypeScript, HTML/CSS
- **Back-end:** Python, Flask, Pandas, GPT, SKlearn, SQL
- **Visualization:** D3, Vega-Lite, Echarts