

YUNFAN ZHOU

State Key Lab of CAD&CG, Zhejiang University · yf.zhou@zju.edu.cn · yunfzhou.github.io

EDUCATION

Zhejiang University, State Key Lab of CAD&CG, *Ph.D. Student* 2024.09 -
Supervisors: Prof. Yingcai Wu, Prof. Di Weng
Zhejiang University, Chu Kochen Honors College 2020.09 - 2024.06
B.Eng. in Computer Science and Technology
Overall GPA: 3.89/4.0 (90.02/100), CET-6: 635

INTERSHIPS

The Hong Kong University of Science and Technology, VisLab 2023.09 - 2024.01
Supervisor: Prof. Huamin Qu
Zhejiang University, State Key Lab of CAD&CG 2022.08 - 2024.09
Supervisor: Prof. Yingcai Wu

HONORS AND AWARDS

- Zhejiang Provincial Government Scholarship, twice (2021.11, 2022.11)
- Outstanding Graduate of Zhejiang University (2024.06)
- Outstanding Undergraduate Thesis (2024.06)
- Chu Kochen Honors College Certificate (2024.06)
- Outstanding Volunteer of Zhejiang University Youth Volunteer Service (2023.05)
- Zhejiang University Scholarship, three times (2021.11 - 2023.11)
- Model Student of Zhejiang University, seven times (2021.11 - 2023.11)
- Second Prize, Zhejiang Province College Physics Innovation Competition (Theory) (2022.01)
- First Prize, 13th National College Mathematics Competition (2021.12)

PUBLICATIONS

- Y. Zhou, X. Cai, Q. Shi, Y. Huang, H. Li, H. Qu, D. Weng, Y. Wu. **Xavier: Toward Better Coding Assistance in Authoring Tabular Data Wrangling Scripts**. ACM Conference on Human Factors in Computing Systems (CHI). Article 850, 1-16 (2025).
 - We propose Xavier, an LLM-driven, data context-aware code completion tool that assists data analysts in authoring data transformation scripts. Xavier combines code contexts and data contexts to provide intelligent code completion suggestions, automatically highlights corresponding data contexts based on the code users are writing, and provides real-time preview of data transformation results. User studies show that Xavier improves the efficiency of data analysts in writing data transformation scripts and significantly reduces errors and context-switching overhead during the coding process.
- Y. Huang, Y. Zhou, R. Chen, C. Pan, X. Shu, D. Weng, Y. Wu. **Interactive Table Synthesis with Natural Language**. IEEE Transactions on Visualization and Computer Graphics. 30(9): 6130-6145 (2024).
 - We propose NL2Rigel, an LLM-driven interactive system that facilitates table creation and refinement from structured data with natural language instructions. NL2Rigel generates interpretable data transformation pipelines through a multi-step prompt engineering approach, visualizes the data transformation process through an intuitive user interface, and supports incremental refinement to generated results through natural language. User studies show that NL2Rigel significantly improves users' efficiency in integrating tabular data while maintaining comparable accuracy.

SERVICES

- Reviewer for ACM CHI 2025 Late Breaking Work, IEEE VIS 2024-2025
- Teaching Assistant for "History of Computer Science Thought" course, Spring-Summer Semester 2024-2025
- Member of Doctoral Student Union, School of Computer Science and Technology (2024-2025)