

Yang Wu

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EDUCATION

Huazhong University of Science and Technology

M.E., Computer Science

GPA: 3.59/4.00

2022 - 2025

Wuhan University of Technology

B.E. (Graduate with Honors), Computer Science

GPA: 4.08/5.00

2018 - 2021

RESEARCH INTERESTS

Human-Computer Interaction, especially AI for tabular data and visualization, e.g., NL2Vis, Sign2Vis

Code Intelligence, e.g., Code Generation, Code Summarization

Natural Language Processing, e.g., Text2SQL

PROJECTS

Explore LLMs for NL2Vis

April 2023 – July 2023

- Conduct an empirical study to evaluate LLMs potential in generating visualizations.
- Investigate different approaches to feed the structured tabular data into LLMs.
- Propose to iteratively update the results via optimization strategies.
- Published at SIGMOD 2024, first author.

Explore LLMs as Evaluator for Code Summarization

Sep. 2023 – Dec. 2023

- Explore LLMs for assessing code summarization without references.
- Prompt LLMs to adopt diverse roles in evaluating generated summaries across multiple dimensions.
- Find LLM-based evaluator significantly improves the correlation with human perception.
- Submitted to ICSE 2024, first author.

PUBLICATIONS

- [1] Automated Data Visualization from Natural Language via Large Language Models: An Exploratory Study
Yang Wu, Yao Wan*, Hongyu Zhang, Yulei Sui, Wucui Wei, Wei Zhao, Guandong Xu, Hai Jin
SIGMOD 2024. *The ACM Special Interest Group on Management of Data*
- [2] Graph Neural Networks for Vulnerability Detection - A Counterfactual Explanation
Zhaoyang Chu, Yao Wan*, Qian Li, **Yang Wu**, Hongyu Zhang, Yulei Sui, Guandong Xu, Hai Jin
ISSTA 2024. *The ACM SIGSOFT International Symposium on Software Testing and Analysis*

PATENTS

- [1] Order distribution methods, devices, computer equipment and readable storage media.
Bing Shi, Yang Wu, Hongmeng Liu, Liming Liu, Liquan Zhu. *Under review*.

TEACHING

Teaching Assistant at Huazhong University of Science and Technology

2022-2023

Compiler Principles and Techniques.

HONORS

Excellent Student Cadre

2022-2023

First-class Scholarship for Postgraduates

2022-2023

Outstanding Undergraduate

2022

National Inspirational Scholarship

2018-2021