

Yang Wu

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EDUCATION

Huazhong University of Science and Technology

M.E., Computer Science

GPA: 4.49/5.00

2022 - 2025

Wuhan University of Technology

B.E. (Graduate with Honors), Data Science and Big Data Technology

GPA: 4.08/5.00

2018 - 2022

RESEARCH INTERESTS

My research focuses on the intersection of **Software Engineering** and **Human-Computer Interaction**, including source *code generation and summarization*, with a specific focus on the universality of *natural language, programming language*, and *data visualizations* with **AI tools**.

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*.

PROJECTS

- Exploring LLMs for NL2Vis April 2023 – Oct. 2023
- Conduct an empirical study to evaluate LLMs potential in generating visualizations.
 - Investigate approaches to feed the structured tabular data into LLMs.
 - Published at **SIGMOD 2024**, first author, advised by Prof. Yao Wan and Prof. Hai Jin at HUST.
- Explainable Data Visualization June 2024 – Sep. 2024
- Incorporated an explainable system to improve user understanding of data pipelines and AI outputs.
 - Submitted to **CHI 2025**, first author, under the supervision of Prof. Yi Wang at ETH Zurich.
- Data Visualization Through Sign Language June 2024 – Sep. 2024
- Developed an accessible tool for interactive data visualization using sign language.
 - Submitted to **CHI 2025**, first author after advisor, advised by Prof. Yao Wan and Prof. Yi Wang.
- Exploring LLMs as Evaluator for Code Summarization Sep. 2023 – Mar. 2024
- Explore LLMs for assessing code summarization without references.
 - Submitted to **ICSE 2025**, first author, collaborated with the BDSC lab of Prof. Philip S. Yu at UIC.
- A Counterfactual Explanation for GNN in Vulnerable Detection Jun. 2023 – Dec. 2023
- Motivated by “why my code is detected as vulnerable?”
 - Published at **ISSTA 2024**, co-author, collaborated with Prof. Yulei Sui at UNSW.

TECHNICAL SKILLS

Languages: C/C++, Java, Python(Pytorch, Tensorflow), SQL, Vega-Lite, Node.js

Tools: Git, Linux, LaTeX, Tree-sitter, and JavaParser

Teaching Assistant: *Compiler Principles and Techniques* at HUST

Honors: Excellent Student Cadre, First-class Scholarship for Postgraduates, Outstanding Undergraduate