

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), Data Science and Big Data Technology

GPA: 4.08/5.00

2018 - 2021

PUBLICATIONS

- [1] Automated Data Visualization from Natural Language via Large Language Models: An Exploratory Study
Yang Wu, Yao Wan*, Hongyu Zhang, Yulei Sui, Wucan 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 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, co-advised by Prof. Hai Jin at HUST.

A Counterfactual Explanation for GNN in Vulnerable Detection

Jun. 2023 – Dec. 2023

- Motivated by “why my code is detected as vulnerable?”
- CFExplainer aims to identify a minimal perturbation to the code graph input that can flip the detection system’s prediction from “vulnerable” to “non-vulnerable”.
- Published at **ISSTA 2024**, co-author, collaborated with Prof. Yulei Sui at UNSW.

Exploring LLMs as Evaluator for Code Summarization

Sep. 2023 – Mar. 2024

- 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 2025**, first author, collaborated with the BDSC lab of Prof. Philip S. Yu at UIC.

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

Compiler Principles and Techniques.

2022-2023

TECHNICAL SKILLS

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

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

Areas of Interest: LLM4Code, Program Analysis, Human-AI Interaction, Data Visualization

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