

# 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. *Unpatented*.

## 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