

# WU Lyucheng

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## EDUCATION

**Chu Kochen Honors College, Zhejiang University (ZJU), China**  
**College of Computer Science & Technology, ZJU, China**

09/2021-06/2025

09/2021-06/2025

- Major: **Computer Science and Technology**, Bachelor of Science
- Overall GPA: 3.78/4.0 (86.42/100) | Top 15%
- Core Courses: *C Programming, Computing Systems, Digital Logic Design, Machine Learning and Data Analysis, Database System, Advanced Data Structure & Algorithm Analysis, Computer Organization, Object-oriented Programming, Computer Networks, Compiler Principle, Software Engineering, Natural Language Processing*
- Math Courses: *Mathematical Analysis, Linear Algebra, Game Theory, Mathematical Modeling, Probability Theory & Mathematical Statistics, Discrete Mathematics*

## RESEARCH INTERESTS

Artificial Intelligence, Natural Language Processing, Multimodal Large Language Model, Fine-tuning, Steering

## PUBLICATIONS

Wu, L. (2025). An Empirical Analysis of Steering Multimodal Large Language Models (in progress).  
A second-author paper, pending publication (from work during the NUS Summer Research).

## RESEARCH & PROJECT EXPERIENCE

**ZJU Graduation Thesis & Project: An Empirical Analysis of Steering MLLMs**

09/2024-present

Research Assistant, ZJU-Ant Group Joint Research Center for Knowledge Graphs | Supervisor: Prof. Ningyu Zhang

- Conducted research to optimize MLLMs with the “Steering” method, aiming to enhance their safety
- Implemented LM-Steers, a steering method of LLM output word embeddings, on MLLM; completed testing on VLSafe, achieved positive results
- Compared the performance of steering in single versus hybrid transformer architectures

**NUS Summer Research Project: Research on the Chinese Large Language Model Database**

06/2024-09/2024

Research Assistant, High Performance Computing for Artificial Intelligence (HPC-AI) Lab, National University of Singapore (NUS) | Supervisor: Prof. Yang You

- Created the world’s first Chinese Presupposition Dataset to evaluate LLMs’ reasoning abilities with implicit assumptions in Chinese
- Defined the methodology for constructing the dataset based on literature reviews, with particular reference to *On LLMs-Driven Synthetic Data Generation, Curation, and Evaluation: A Survey*
- Devised the research’s algorithms (data generating pipeline); employed GPT-4 for automated generation of presupposition sentence pairs; generated and processed data for 1,500 simple and 1,400 complex cases

**MindSpore Model Development Challenge, Huawei Technologies Co., Ltd.**

07/2024-08/2024

Team Leader

- Fine-tuned a Llama2-based model to enhance mathematical abilities, using LoRA and prompt-tuning techniques
- The model achieved an accuracy score of 51.38%, ranked 5th out of 104 in a competition, and won a gold prize along with a 10,000 RMB award (5,000 for each member)

## EXTRACURRICULAR ACTIVITIES

**BaiDangHai Community Service, Hangzhou**

07/2022-09/2023

- Engaged in community improvement work, including aspects like culture, environment, and safety

## HONORS AND SCHOLARSHIPS

Gold Prize, MindSpore Model Development Challenge, Huawei Technologies

2024

First-class Scholarship for Outstanding Students, ZJU

2024

Five-star Volunteer (250+ hours), ZJU

2023

Third-class Scholarship for Outstanding Students, ZJU

2022

Model Student of Excellent Academic Performance, ZJU

2022-2024

## SKILLS

English: TOEFL: 107 | GRE: 321

Computer Languages: C, C++, Python, Verilog | LLMs: Transformer, Chameleon, BERT

Software Skills: Dev C++, Visual Studio, VS Code, Pycharm, Anaconda, Matlab, PyTorch, Yuque