

# Juzheng Zhang

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## Education

### University of Maryland, College Park

PH.D. STUDENT IN COMPUTER SCIENCE

- Working with Prof. Tom Goldstein. Research interests include efficiency, scalability, and security of LLMs.
- Currently focused on parameter-efficient fine-tuning (PEFT) techniques for LLMs.

College Park, United States

Aug. 2024 - Present

### Shanghai Jiao Tong University

BACHELOR OF ENGINEERING IN INFORMATION ENGINEERING, MINOR IN COMPUTER SCIENCE AND TECHNOLOGY

- Overall GPA 4.0/4.3, ranking 1/152, B.Eng. Degree with Honors (Top 1%), Zhiyuan Honors Program (Top 5%).

Shanghai, China

Sep. 2019 - Jun. 2023

## Publications

### UniMoT: Unified Molecule-Text Language Model with Discrete Token Representation

Juzheng Zhang, Yatao Bian, Yongqiang Chen, Quanming Yao

In submission, [arXiv:2408.00863], [website]

### Heuristic Learning with Graph Neural Networks: A Unified Framework for Link Prediction

Juzheng Zhang, Lanning Wei, Zhen Xu, Quanming Yao

KDD 2024, [arXiv:2406.07979], [code]

### Customized Subgraph Selection and Encoding for Drug-drug Interaction Prediction

Haotong Du, Quanming Yao, Juzheng Zhang, Yang Liu, Zhen Wang

NeurIPS 2024, [arXiv:2411.01535], [code]

### HIGHT: Hierarchical Graph Tokenization for Graph-Language Alignment

Yongqiang Chen, Quanming Yao, Juzheng Zhang, James Cheng, Yatao Bian

ICML 2024 FM-Wild Workshop, [arXiv:2406.14021], [website]

## Experience

### University of Maryland, College Park

GRADUATE ASSISTANT

- Focused on parameter-efficient fine-tuning techniques for LLMs to mitigate catastrophic forgetting during sequential training.

College Park, United States

Aug. 2024 - Present

### Tsinghua University

RESEARCH ASSISTANT

- Worked on multi-modal LLMs, focusing on molecule-text LLMs with discrete token representation and hierarchical molecule tokenization.

Beijing, China

Oct. 2023 - May 2024

### Baidu Research

RESEARCH INTERN

- Worked on developing a unified framework for link prediction tasks using graph neural networks.

Beijing, China

Mar. 2023 - Oct. 2023

## Honors & Awards

2024 Dean's Fellowship

2023 Outstanding Graduate of Shanghai Jiao Tong University

2021 Shanghai Government Scholarship

2021 Merit Student Award

2021 Academic Excellence Scholarship

2021 Meritorious Winner, International Mathematical Contest in Modeling (MCM)

College Park, US

Shanghai, China

Shanghai, China

Shanghai, China

Shanghai, China

US

## Skills

### Programming

Python, Pytorch, C/C++, Verilog, Tensorflow

### Tools

Git, Docker, Markdown, LaTeX, HTML, CSS

### Languages

English, Mandarin