

PINGZHI LI

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Education

University of Science and Technology of China

Bachelor of Engineering in Computer Science and Technology

Sep. 2019 – Jul. 2023

Hefei, China

Publications

Merge, Then Compress: Demystify Efficient SMoE with Hints from Its Routing Policy.

Pingzhi Li, Zhenyu Zhang, Prateek Yadav, Yi-Lin Sung, Yu Cheng, Mohit Bansal, Tianlong Chen.

International Conference on Learning Representations (ICLR), 2024 (Spotlight)

[Code] [PDF]

Experience

The University of North Carolina at Chapel Hill

June 2023 – September 2023

Research Intern

Remote

- Produced an *ICLR 2024 accepted (spotlight)* paper, proposed an *Sparse MoE merging and compression* framework, which leverages routing statistics as guidance, achieving impressive results of both memory- and parameter- efficiency.
- Won the *1st place* of ACM/IEEE Quantum Computing for Drug Discovery Challenge (team MIT-EPiQC-CMU-Duke), developed a Pauli string grouping technique to reduce the number of required measurements.

University of Science and Technology of China

September 2022 – January 2023

Teaching Assistant

Hefei, China

- Undergrad course - CS1001A Computer Programming A (C Language).

University of Science and Technology of China

July 2021 – July 2021

Undergrad Intern

Hefei, China

- Got deeply involved in developing an advanced *NLP library* towards multi-modal educational items .
- Won the *Silver Medal* (top 100/2000) in the Kaggle Feedback Prize - Evaluating Student Writing competition.

Open Source Projects

EduNLP | Python

June 2021

- An accessible and flexible library for advanced Natural Language Processing towards multi-modal educational items.
- Provide thoughtfully designed API for researchers, ranging from question item processing, tokenizer and model design, through to training on various tasks.
- Github repo: github.com/bigdata-ustc/EduNLP.

Honors and Awards

1st Place of ACM/IEEE Quantum Computing for Drug Discovery Challenge

November, 2023

Outstanding Graduates Scholarship, USTC

June, 2023

Silver Medal in Kaggle Feedback Prize - Evaluating Student Writing

March, 2022

Outstanding Student Scholarship, USTC

November, 2020/21/22

Skills

Languages: Mandarin (native), English (professional), German (junior)

Programming Languages: Python, C/C++, Bash

Deep Learning Frameworks: PyTorch, HuggingFace Transformers, DeepSpeed, Jax/Flax