

Yuezhou Hu

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Education

Tsinghua University

(Expected in June 2025) Bachelor of Engineering,
Department of Computer Science and Technology.
GPA 3.82/4.0

Beijing, China

Sep. 2021 - Present

Research Interests

My research interests include **efficient algorithms for machine learning**, including model compression methods, particularly structured sparsity, dynamic sparse training, quantization methods, and etc. I want to break the monopoly of unicorns in AI and make deep learning affordable and accessible for every researcher.

Experience

State Key Lab. of Intelligent Teh. & Sys., Tsinghua Uni. Group Leader

Beijing, China

May 2023 – Present

- Conducted a thorough survey on state-of-the-art 2:4 pre-training techniques for large transformers.
- Devised a set of algorithms adaptable to all phases in transformer pre-training, balancing efficiency and performance at the same time, which succeeded previous 2:4 training methods.
- Implemented a set of tools for efficient 2:4 pre-training, with CUDA, OpenAI Triton, and Pytorch.
- Be the first to report real pre-train acceleration ratio via 2:4 sparsity.

Publications and and working papers

- **Accelerating Transformer Pre-Training with 2:4 Sparsity.**
Yuezhou Hu, Kang Zhao, Weiyu Huang, Jianfei Chen, Jun Zhu
To appear in International Conference on Machine Learning (ICML), 2024
- **S-STE: Continuous Pruning Function for Efficient 2:4 Sparse Pre-training.**
Yuezhou Hu, Jun Zhu, Jianfei Chen
Submitted for Neural Information Processing Systems (NeurIPS), 2024

Leadership & Activities

Vice President of Tsinghua University Summer School for Undergraduate Applicants.
Volunteered in the Undergraduate Admissions Office of Tsinghua University.

Aug. 2022

July 2022

Technical Skills

Deep learning programming: Python, Pytorch

GPU Programming: OpenAI Triton, C++, CUDA

Others: Docker, Django, Rust