

## Yuezhou Hu

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### Education

#### Tsinghua University

(Expected in June 2025) Bachelor of Engineering,  
Department of Computer Science and Technology.  
GPA 3.80/4.0

Beijing, China

Sep. 2021 - Present

### Research Interests

My research interests include **efficient algorithms for machine learning**, including model compression methods, particularly dynamic sparse training and quantization. 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.

Role: Research Intern    Advisor: Prof. Jianfei Chen, Prof. Jun Zhu

Beijing, China

2022 – Present

- Conducted a thorough survey on state-of-the-art 2:4 pre-training techniques for large transformers.
- Be the first to report real pre-train acceleration ratio via 2:4 sparsity.

#### H. Milton Stewart School of Industrial and Systems Engineering, Georgia Tech.

Role: Research Intern    Advisor: Prof. Tuo Zhao

Atlanta, US

July 2024 – Present

- Conducted a survey on knowledge distillation (KD) methods for efficient speculative decoders.

### Publications and Working Papers

- **Accelerating Transformer Pre-training with 2:4 Sparsity.**  
arXiv OpenReview PDF Project page  
**Yuezhou Hu**, Kang Zhao, Weiyu Huang, Jianfei Chen, Jun Zhu  
In proc. of International Conference on Machine Learning (ICML), Vienna, Austria, 2024.
- **S-STE: Continuous Pruning Function for Efficient 2:4 Sparse Pre-training.**  
arXiv OpenReview Project page  
**Yuezhou Hu**, Jun Zhu, Jianfei Chen  
To appear in Neural Information Processing Systems (NeurIPS), Vancouver, Canada, 2024.
- **Pruning Large Language Models with Semi-Structural Adaptive Sparse Training.**  
arXiv  
Weiyu Huang, **Yuezhou Hu**, Guohao Jian, Jun Zhu, Jianfei Chen  
Submitted for AAAI 2025.

### Technical Skills

**Deep learning programming:** Python, Pytorch

**GPU Programming:** OpenAI Triton, C++, CUDA

**Others:** Docker, Django, Rust

**Language Skills:** TOEFL 104 (R:28/L:27/S:23/W:26)