Jintao Zhang

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Education

Tsinghua University — **Aug. 2024 – Dec.2026 (Expected)**
Ph.D. of Science in Computer Science and Technology — **Beijing, China**
Supervisor: Prof. Jun Zhu 🔗 Homepage, and Prof. Jianfei Chen 🔗 Homepage.

Tsinghua University — **Aug. 2021 – Jun. 2024**
Master of Science in Computer Science and Technology (GPA: 3.92) — **Beijing, China**
Supervisor: Prof. Guoliang Li 🔗 Homepage.

Xidian University — **Sep. 2017 – Jun. 2021**
Bachelor of Science in Computer Science and Technology (GPA: 3.85) — **Shannxi, China**

Selected publications

[Arxiv 2025] Full Paper	SageAttention3: Microscaling FP4 Attention for Inference and An Exploration of 8-Bit Training. **Jintao Zhang**, Jia Wei, Pengle Zhang, Xiaoming Xu, Haofeng Huang, Haoxu Wang, Kai Jiang, Jun Zhu, Jianfei Chen
[ICML 2025] Full Paper, CCF-A	SpargeAttention: Accurate Sparse Attention Accelerating Any Model Inference. [code (0.7K Stars)] **Jintao Zhang**, Chendong Xiang, Haofeng Huang, Haocheng Xi, Jia Wei, Jun Zhu, Jianfei Chen.
[ICML 2025] Full Paper, CCF-A	SageAttention2: Efficient Attention with Thorough Outlier Smoothing and Per-thread INT4 Quantization **Jintao Zhang**, Haofeng Huang, Pengle Zhang, Jia Wei, Jun Zhu, Jianfei Chen.
[ICLR 2025] Full Paper, CCF-A	SageAttention: Accurate 8-Bit Attention for Plug-and-play Inference Acceleration.[code (2K+ Stars)] **Jintao Zhang**, Jia Wei, Pengle Zhang, Jun Zhu, Jianfei Chen.
[ICDE 2025] Full Paper, CCF-A	SAGE: A Framework of Precise Retrieval for RAG. **Jintao Zhang**, Guoliang Li, Jinyang Su.
[SIGMOD 2024] Full Paper, CCF-A	PACE: Poisoning Attacks on Learned Cardinality Estimation. **Jintao Zhang**, Guoliang Li, Chao Zhang, Chengliang Chai.
[ICDE 2023] Full Paper, CCF-A	AutoCE: An Accurate and Efficient Model Advisor for Learned Cardinality Estimation. **Jintao Zhang**, Chao Zhang, Guoliang Li, Chengliang Chai.
[TKDE 2025] Full Paper, CCF-A	A Lightweight Learned Cardinality Estimation Model. Yaoyu Zhu, **Jintao Zhang#** (*corresponding author*), Guoliang Li#, Jianhua Feng.
[VLDB 2022] Full Paper, CCF-A	Learned Cardinality Estimation: Design Space Exploration and Comparative Evaluation. Ji Sun*, **Jintao Zhang*** (*equal first contribution*), Zhaoyan Sun, Guoliang Li, Nan Tang.
[ICMLW 2025] Short Paper	SageAttention2++: A More Efficient Implementation of SageAttention2. **Jintao Zhang**, Xiaoming Xu, Jia Wei, Haofeng Huang, Pengle Zhang, Chendong Xiang, Jun Zhu, Jianfei Chen.
[PrePrint] Full Paper	A Survey of Efficient Attention Methods: Hardware-efficient, Sparse, Compact, and Linear Attention **Jintao Zhang**, Rundong Su, Chunyu Liu, Jia Wei, Ziteng Wang, Pengle Zhang, et al.

Research Statement

- My research focuses on (1) Efficient Machine Learning System, specializing in accelerating model training and inference; (2) Data Management, specializing in query optimization and high-quality data acquisition.

Selected Awards

Siebel Scholars Scholarship (35,000 USD, Less than 100 globally/year)	May. 2023
China National Scholarship	2019 & 2020

Professional Experiences and Others

- **Teacher Assistant.** "Programming Fundamentals" in Tsinghua University for three years.
- **Oral Reports.** ICLR 2025, ICDE 2025, SIGMOD 2024, ICDE 2023, and VLDB 2022. TOEFL Score: 99.