

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	Beijing, China
Supervisor: Prof. Guoliang Li Homepage .	
Xidian University	Sep. 2017 – Jun. 2021
Bachelor of Science in Computer Science and Technology	Shaanxi, China

SELECTED PUBLICATIONS

[Arxiv 2025]	TurboDiffusion : Accelerating Video Diffusion Models by 100-200 Times. [Code (3.2K Stars)]
Technical Report	Jintao Zhang, Kaiwen Zheng, Kai Jiang, Haoxu Wang, Ion Stoica, Joseph E. Gonzalez, Jianfei Chen, Jun Zhu
[Arxiv 2025]	SLA : Beyond Sparsity in Diffusion Transformers via Fine-Tunable Sparse-Linear Attention.
Full Paper	Jintao Zhang, Haoxu Wang, Kai Jiang, ···, Ion Stoica, Joseph E. Gonzalez, Jun Zhu, Jianfei Chen
[NeurIPS 2025] Spotlight, CCF-A	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]	SpARGEAttention : Accurate Sparse Attention Accelerating Any Model Inference. [Code (0.9K Stars)]
Full Paper, CCF-A	Jintao Zhang, Chendong Xiang, Haofeng Huang, Haocheng Xi, Jia Wei, Jun Zhu, Jianfei Chen.
[ICML 2025]	SageAttention2 : Efficient Attention with Thorough Outlier Smoothing and Per-thread INT4 Quantization
Full Paper, CCF-A	Jintao Zhang, Haofeng Huang, Pengle Zhang, Jia Wei, Jun Zhu, Jianfei Chen.
[ICLR 2025]	SageAttention : Accurate 8-Bit Attention for Plug-and-play Inference Acceleration.[Code (3K Stars)]
Full Paper, CCF-A	Jintao Zhang, Jia Wei, Pengle Zhang, Jun Zhu, Jianfei Chen.
[ICDE 2025]	SAGE : A Framework of Precise Retrieval for RAG.
Full Paper, CCF-A	Jintao Zhang, Guoliang Li, Jinyang Su.
[SIGMOD 2024]	PACE : Poisoning Attacks on Learned Cardinality Estimation.
Full Paper, CCF-A	Jintao Zhang, Guoliang Li, Chao Zhang, Chengliang Chai.
[ICDE 2023]	AutoCE : An Accurate and Efficient Model Advisor for Learned Cardinality Estimation.
Full Paper, CCF-A	Jintao Zhang, Chao Zhang, Guoliang Li, Chengliang Chai.
[TKDE 2025]	A Lightweight Learned Cardinality Estimation Model.
Full Paper, CCF-A	Yaoyu Zhu, Jintao Zhang # (<i>corresponding author</i>), Guoliang Li#, Jianhua Feng.
[VLDB 2022]	Learned Cardinality Estimation : Design Space Exploration and Comparative Evaluation.
Full Paper, CCF-A	Ji Sun*, Jintao Zhang * (<i>equal first contribution</i>), Zhaoyan Sun, Guoliang Li, Nan Tang.
[PrePrint]	A Survey of Efficient Attention Methods : Hardware-efficient, Sparse, Compact, and Linear Attention
Full Paper	Jintao Zhang, Rundong Su, Chunyu Liu, Jia Wei, Ziteng Wang, Pengle Zhang, et al.

RESEARCH INTERESTS

- 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

Bytedance ScholarShip (Less than 20 globally/year)	2025
Siebel Scholars Scholarship (Less than 100 globally/year)	2023
China National Scholarship	2019 & 2020 & 2025