

Fanjiang Ye

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PROFILES [Google Scholar](#) [LinkedIn](#)

Education

Ph.D. Student in Computer Science

Rice University

Advisor: [Dr. Yuke Wang](#)

2025–Present

Houston, TX, USA

Ph.D. Student in Computer Engineering

Indiana University

Advisor: [Dr. Dingwen Tao](#)

2023–2025

Bloomington, IN, USA

B.S. in Physics

University of Science and Technology of China

Advisor: [Dr. Changling Zou](#)

2019–2023

Hefei, Anhui, China

Research Experience

Rice University, [Yuke's Laboratory](#)

Graduate Research Assistant

2025–Present

Houston, TX, USA

Indiana University, [HiPDAC Laboratory](#)

Graduate Research Assistant

2023–2025

Bloomington, IN, USA

Hong Kong University of Science and Technology, [JACK Laboratory](#)

Undergraduate Research Intern

06/2022–10/2022

Kowloon, Hong Kong

University of Science and Technology of China, [Zou Laboratory](#)

Undergraduate Research Assistant

2020–2023

Hefei, Anhui, China

Research Interests

- Efficient systems for generative AI
- System optimization for multimodal LLMs
- Data compression and communication in HPC/ML training

Publications

- **ICML'25 Spotlight** Xiyuan Wei, Ming Lin, [Fanjiang Ye](#), Fengguang Song, Liangliang Cao, My T. Thai, Tianbao Yang. [Model Steering: Learning with a Reference Model Improves Generalization Bounds and Scaling Laws.](#) [arXiv](#)
- **ICS'25 Best Paper Runner-up** Boyuan Zhang, Bo Fang, [Fanjiang Ye](#), Luanzheng Guo, Fengguang Song, Tallent Nathan, Dingwen Tao. [BMQSim: Overcoming Memory Constraints in Quantum Circuit Simulation with a High-Fidelity Compression Framework.](#) [paper](#)
- **SC'24** Hao Feng, Boyuan Zhang, [Fanjiang Ye](#), Min Si, Ching-Hsiang Chu, Jiannan Tian, Chunxing Yin, Zhaoxia (Summer) Deng, Yuchen Hao, Pavan Balaji, Tong Geng, Dingwen Tao. [Accelerating Communication in Deep Learning Recommendation Model Training with Dual-Level Adaptive Lossy Compression.](#) [doi](#)
- **PPoPP'25 Poster** Boyuan Zhang, Luanzheng Guo, Jiannan Tian, Jinyang Liu, Daoce Wang, [Fanjiang Ye](#), Chengming Zhang, Jan Strube, Nathan R. Tallent, Dingwen Tao. [High-performance Visual Semantics Compression for AI-Driven Science.](#) [doi](#)
- **Preprint** [Fanjiang Ye](#), Zepeng Zhao, Yi Mu, Jucheng Shen, Renjie Li, Kaijian Wang, Desen Sun, Saurabh Agarwal, Myungjin Lee, Triston Cao, Aditya Akella, Arvind Krishnamurthy, T. S. Eugene Ng, Zhengzhong Tu, Yuke Wang. [SUPERGEN: An Efficient Ultra-high-resolution Video Generation System with Sketching and Tiling.](#) [arXiv](#)
- **Preprint** Xinrui Zhong, Xinze Feng, Jingwei Zuo, [Fanjiang Ye](#), Yi Mu, Junfeng Guo, Heng Huang, Myungjin Lee, Yuke Wang. [An Efficient and Adaptive Watermark Detection System with Tile-based Error Correction.](#) [arXiv](#)

- [Preprint](#) Xiyuan Wei, **Fanjiang Ye**, Ori Yonay, Xingyu Chen, Dingwen Tao, Tianbao Yang. [FastCLIP: A Suite of Optimization Techniques to Accelerate CLIP Training with Limited Resources.](#) [arXiv](#)

Honors and Awards

- Indiana University Travel Awards (\$1500), Indiana University Bloomington 2024
- USTC Fellowship (\$2000), University of Science and Technology of China 2023
- Outstanding Student Scholarship (Top 25%), University of Science and Technology of China 2020, 2021, 2022

Professional Service

- ASPLOS'26 Artifact Evaluation Committee
- SOSP'25 Artifact Evaluation Committee
- QCE'24 Sub-Reviewer

Teaching Experience

- Teaching Assistant of ENGR-E 516: Cloud Computing, Spring 2025, Indiana University