

# Fanjiang Ye

Mail: [fanjye@iu.edu](mailto:fanjye@iu.edu)

Web: [home.fanjiang.net](http://home.fanjiang.net)

Phone: +1 812-322-7150

---

## *Education*

### **Indiana University**

Ph.D. Student in Intelligent Systems Engineering (Track: Computer Engineering)      2023-Present  
Bloomington, IN, USA

Advisor: Dr. Dingwen Tao, Dr. Fengguang Song

### **University of Science and Technology of China**

Bachelor of Science in Atomic Physics      2019-2023  
Hefei, Anhui, China

Advisor: Dr. Changling Zou

## *Research Experience*

### **Indiana University**, HiPDAC Laboratory

Graduate Research Assistant      2023 - Present  
Bloomington, IN, USA

### **Hong Kong University of Science and Technology**, JÄCK 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*

- Quantum computation
- System optimization for LLM
- Data compression in HPC application

## *Honors and Awards*

- *Outstanding Student Scholarship (Top 25%)*. University of Science and Technology of China      2020-2022

## *Publication*

[Ongoing] **Memory Efficient High-performance Quantum Phase Estimation on CPUs and GPUs.**

**Fanjiang Ye**, Boyuan Zhang, Chris Kang, Bo Fang, Dingwen Tao

[SC'2024] **Accelerating Communication in DLRM Training with Dual-Level Adaptive Lossy Compression.**

Hao Feng, Boyuan Zhang, **Fanjiang Ye**, Min Si, Ching-Hsiang Chu, Jiannan Tian, Chunxing Yin, Zhaoxia

Deng, Yuchen Hao, Pavan Balaji, Tong Geng, and Dingwen Tao. [\[Paper\]](#)

[Preprint] **FastCLIP: A Suite of Optimization Techniques to Accelerate CLIP Training with Limited Resources.**

Xiyuan Wei, **Fanjiang Ye**, Ori Yonay, Xingyu Chen, Baixi Sun, Dingwen Tao, Tianbao Yang. [\[Paper\]](#)

[Preprint] **Overcoming Memory Constraints in Quantum Simulation with a High-Fidelity Compression Framework.**

Boyuan Zhang, **Fanjiang Ye**, Yida Gu, Meng Wang, Tallent Nathan, Guangming Tan, Bo Fang, Dingwen Tao. [\[Paper\]](#)

[PPoPP'25 Poster] **ViSemZ: High-performance Visual Semantics Compression for AI-Driven Science.**

Boyuan Zhang, Luanzheng Guo, Jiannan Tian, Jinyang Liu, Daoce Wang, **Fanjiang Ye**, Chengming Zhang,

Jan Strube, Nathan R. Tallent, Guangming Tan, Dingwen Tao. [\[Paper\]](#)