

# TIANYU FENG

Phone: (+86) 151-4728-1130 ◇ E-mail: tian.yu.feng@outlook.com

Github: fty1777 ◇ Site: <https://fty1777.github.io>

## EDUCATION

<b>Beihang University (BUAA)</b> , Beijing, P.R.China	2022.9 - 2024.12
MEng in Computer Science (until 2024 Spring)	GPA: 3.861/4.0, Rank: 18/293 (Top 6%)
<b>Beihang University (BUAA)</b> , Beijing, P.R.China	2018.9 - 2022.6
BEng in Computer Science	GPA: 3.862/4.0, Rank: 6/201 ( <b>Top 3%</b> )

## RESEARCH INTERESTS

**High Performance Computing** including sparse computing, scientific computing application optimization and stencil.

**Machine Learning Systems (MLSys)** including training, inference and model serving systems.

**Parallel Computing** including CPU, GPU and other many-core processors.

**Performance Analysis Tools** large-scale performance analysis of programs running among up to thousands of nodes.

## PUBLICATIONS

Siqi Wang\*, **Tianyu Feng\***, Hailong Yang, Xin You, Bangduo Chen, Tongxuan Liu, Zhongzhi Luan, and Depei Qian. *AtRec: Accelerating Recommendation Model Training on CPUs*. In IEEE Transactions on Parallel and Distributed Systems. (TPDS 2024) (\* : Equal contribution) (Early Access available)

**Tianyu Feng**, Siyan Chen, Xin You, Shuzhang Zhong, Hailong Yang, Zhongzhi Luan, and Depei Qian. *dgQuEST: Accelerating Large Scale Quantum Circuit Simulation through Hybrid CPU-GPU Memory Hierarchies*. In Proceedings of Network and Parallel Computing: 18th IFIP WG 10.3 International Conference. (NPC 2021, **Best Paper Award**)

Jianjin Liao, Mingzhen Li, Hailong Yang, Qingxiao Sun, Biao Sun, Jiwei Hao, **Tianyu Feng**, Fengwei Yu, Shengdong Chen, Ye Tao, Zicheng Zhang, Zhongzhi Luan, and Depei Qian. *Exploiting Input Tensor Dynamics in Activation Checkpointing for Efficient Training on GPU*. In Proceedings of 2023 IEEE International Parallel and Distributed Processing Symposium. (IPDPS 2023)

## AWARDS AND SCHOLARSHIPS

<b>National Scholarship</b>	2022.10
<b>National Scholarship</b>	2019.10
<b>NPC 2021 Best Paper Award</b>	2021.11
Excellent Undergraduate Thesis Award, Beijing	2022.11
Outstanding Graduate, Beijing	2022.7

(A longer list including competitions is available on my site <https://fty1777.github.io/awards/>)

## OTHER EXPERIENCE

R&D Intern, Model training Optimization, MEGVII, Beijing	2023.7 - 2023.11
R&D Intern, High Performance Computing, Sensetime, Beijing	2021.6 - 2021.11

## SKILLS AND STANDARDIZED TEST SCORES

**Programming Languages, Frameworks and Technical Skills**  
C/C++, Python, CUDA, PyTorch, TensorFlow, MPI, Docker, Linux

**TOEFL:** 98

**GRE:** 324(V155+Q169+W3.5)