An Xu

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Employment

Jan 2025 - now **Applied Scientist** at **Amazon**, *Seattle, WA*
Foundation model training for Shopping LLM.

Jan 2025 - Jan 2025 **Senior Research Scientist** at **ByteDance/TikTok**, *Bellevue, WA*
Jun 2023 - Jan 2025 **Research Scientist** at **ByteDance/TikTok**, *Bellevue, WA*
LLM distributed training and inference efficiency. Code generation.

Internship

Jun 2022 - Aug 2022 **Applied Scientist Intern** at **AWS AI**, *Santa Clara, CA*
Large-batch optimization for LLM pretraining.

Jun 2021 - Aug 2021 **Applied Research Intern** at **NVIDIA Research**, *Remote*
Propose new cross-silo federated learning methods (CVPR 2022, ECCV 2022), which are publicly available in NVIDIA's NVFLARE link1 and link2 respectively.

Jun 2019 - Nov 2019 **Research Intern** at **JD Digits AI Lab**, *Mountain View, CA*
Accelerate deep learning model parallelism by incorporating staleness (pipeline parallelism) (CVPR 2020).

Education

Aug 2018 - Aug 2023 **University of Pittsburgh**, *Pittsburgh, PA*

Ph.D in Electrical and Computer Engineering.

Sep 2013 - Jul 2017 **Tsinghua University**, *Beijing*
B.Eng in Electrical Engineering. Second degree: B.Eng in Business Administration.

Publications

[Homepage/Publications][Google Scholar]
16 publications with 500+ citations in top machine learning conferences covering Sparse MoE LLM pruning, Large-scale Distributed Training (Data and Model Parallelism) and Federated Learning, etc.

Served as program committee / reviewer for:

- ICLR'22-25; ICML'22-24; NeurIPS'22-24. ICML'22 session chair and outstanding reviewer.
- CVPR'21-23; ICCV'21, 23; ECCV'20, 22, 24
- AAAI'22-25; IJCAI'23
- KDD'20, 23; CIKM'22
- Journals: TNNLS, TMI

Last updated: January 11, 2025