JIANG Chenyu

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EDUCATION

The University of Hong Kong (HKU)   Sep 2020-Present (Late 2025)
- **Program:** Ph.D. in Computer Science
- **Supervisor**: Prof. Chuan Wu

The Chinese University of Hong Kong (CUHK)   Sep 2016-Aug 2020
- **Program:** B.Sc. in Computer Science
- Graduated with **First Class Honors**

RESEARCH INTEREST

My current research focuses on the optimization of distributed DNN training and inference systems. I am also broadly interested in deep learning compilation technologies.

PUBLICATIONS

- **Chenyu Jiang**, *Zhenkun Cai, Ye Tian, Zhen Jia, Yida Wang, Chuan Wu, DCP: Addressing Input Dynamism in Long-Context Training via Dynamic Context Parallelism,* in **SOSP'25**
- **Chenyu Jiang**, *Ye Tian, Zhen Jia, Chuan Wu, Yida Wang, Shuai Zheng, Lancet: Accelerating Mixture-of-Experts Training by Overlapping Weight Gradient Computation and All-to-All Communication,* in **MLSys'24**
- **Chenyu Jiang**, Zhen Jia, Yida Wang, Shuai Zheng, Chuan Wu, *DynaPipe: Optimizing Multi-task Training through Dynamic Pipelines*, in **EuroSys'24**
- Hanpeng Hu, **Chenyu Jiang**, Yuchen Zhong, Yanghua Peng, Chuan Wu, Yibo Zhu, Haibin Lin, *dPRO: A Generic Performance Diagnosis and Optimization Toolkit for Expediting Distributed DNN Training*, in **MLSys'22**
- Shiyuan Deng, Xiao Yan, Kelvin K.W. Ng, **Chenyu Jiang**, James Cheng, *Pyramid-A General Framework for Distributed Similarity Search*, IEEE Big Data 2019 Short Paper

INTERNSHIPS

Meituan   May 2025-Present
- **Team**: Central Local Commerce - Computing Platform - LLM pretraining

Amazon Web Services   Jun 2021-Feb 2025
- **Position**: Applied Scientist Intern
- **Supervisors**: Yida Wang, Zhen Jia

TALKS

- "Optimizing Distributed Large Language Model Training Under Novel Parallelisms and Dynamic Inputs",   Anuttacon, Online, Oct 2025
- "*DCP: Addressing Input Dynamism in Long-Context Training via Dynamic Context Parallelism*",   SOSP'25 Conference,   Seoul,   South Korea,   Oct 2025
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- "Lancet: Accelerating Mixture-of-Experts Training by Overlapping Weight Gradient Computation and All-to-All Communication", *MLSys'24 Conference*, San Jose, USA, May 2024
- "Optimizing novel DNN training scenarios-from data to model architecture", *Bytedance Ltd*, San Jose, USA, May 2024
- "Optimizing novel DNN training scenarios-from data to model architecture", *Amazon Web Services (AWS)*, San Jose, USA, May 2024
- "DynaPipe: Optimizing Multi-task Training through Dynamic Pipelines", *EuroSys'24 Conference*, Athens, Greece, April 2024

SELECTED AWARDS

- HKU University Postgraduate Fellowship [2020]
- Professor Charles K. Kao Research Exchange Scholarship [2019]
- ELITE Stream Student Scholarship [2017-2019]
- CSE Outstanding Academic Performance [2018-2019]
- Wu Yee Sun College Academic Excellence Scholarship [2017-2018]

TEACHING EXPERIENCES

- Teaching Assistant for COMP9602 Convex Optimization, HKU
- Teaching Assistant for COMP3322 Modern Technologies on World Wide Web, HKU
- Teaching Assistant for COMP3234 Computer and Communication Networks, HKU

OTHER RESEARCH EXPERIENCES

Final Year Project: Distributed Deep Learning Systems, CUHK   Sep 2019-Aug 2020
   Instructor: Prof. James Cheng
- Investigated communication optimizations to accelerate distributed DNN training with data parallelism.

Summer Internship: Fairness in Machine Learning, Carnegie Mellon University   Jun 2019-Aug 2019
   Instructor: Prof. Pulkit Grover
- Investigated methods to alleviate undesired political bias from recommendation systems using tools from information theory.

Research Internship: Representation Learning in NLP, CUHK   Jun 2018-Jan 2019
   Instructor: Prof. Helen Meng, Dr. Kerney Wu
- Examined methods to create multi-sense dictionary embeddings.