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Zzlcs@pku.edu.cn | ★ www.zilizhang.site | ☐ Gold-Sea | ≥ Zili Zhang

Education

Peking University

Beijing, China

Ph.D. IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2023 - Present

· Advisor: Prof. Xin Jin

Peking University

Beijing, China

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2019 - Jun. 2023

• Overall GPA: 3.71/4.0 (top 9%)

Service

2025 **Shadow PC,** The 20th edition of EuroSys (EuroSys 2025)

Rotterdam

Publications

DistTrain: Addressing Model and Data Heterogeneity with Disaggregated Training for Multimodal Large Language Models

IN PREPRINT Aug 2024

• Zili Zhang, Yinmin Zhong, Ranchen Ming, Hanpeng Hu, Jianjian Sun, Zheng Ge, Yibo Zhu, Xin Jin

RAGCache: Efficient Knowledge Caching for Retrieval-Augmented Generation

IN PREPRINT Apr 2024

• Chao Jin, **Zili Zhang**, Xuanlin Jiang, Fangyue Liu, Xin Liu, Xuanzhe Liu, Xin Jin

Fast Distributed Inference Serving for Large Language Models

IN PREPRINT May 2023

• Bingyang Wu*, Yinmin Zhong*, Zili Zhang*, Gang Huang, Xuanzhe Liu, Xin Jin (* indicates equal contribution)

RLHFuse: Efficient RLHF Training for Large Language Models with Inter- and Intra-Stage Fusion

Philadelphia, PA, U.S.

NSDI'25 Apr. 2025

• Yinmin Zhong, **Zili Zhang**, Bingyang Wu, Shengyu Liu, Yukun Chen, Changyi Wan, Hanpeng Hu, Lei Xia, Ranchen Ming, Yibo Zhu, Xin Jin

Fast Vector Query Processing for Large Datasets Beyond GPU Memory with Reordered Pipelining

Santa Clara, U.S.

Apr 2024

Apr. 2024

Jul. 2024

Apr. 2023

Apr. 2023

NSDI'24
• Zili Zhang, Fangyue Liu, Gang Huang, Xuanzhe Liu, Xin Jin

Jolteon: Unleashing the Promise of Serverless for Serverless Workflows

Santa Clara, U.S.

NSDI'24

• Zili Zhang, Chao Jin, Xin Jin

dLoRA: Dynamically Orchestrating Requests and Adapters for LoRA LLM Serving

Santa Clara, U.S.

OSDI'24

• Bingyang Wu, Ruidong Zhu, **Zili Zhang**, Peng Sun, Xuanzhe Liu, Xin Jin

Fast, Approximate Vector Queries on Very Large Unstructured Datasets

Boston, U.S.

NSDI'23

• **Zili Zhang**, Chao Jin, Linpeng Tang, Xuanzhe Liu, Xin Jin

Ditto: Efficient Serverless Analytics with Elastic Parallelism

New York City, U.S.

SIGCOMM'23

• Chao Jin, **Zili Zhang**, Xingyu Xiang, Songyun Zou, Gang Huang, Xuanzhe Liu, Xin Jin

Transparent GPU Sharing in Container Clouds for Deep Learning Training

Boston, U.S.

NSDl'23 Apr. 2023

• Bingyang Wu, **Zili Zhang**, Zhihao Bai, Xuanzhe Liu, Xin Jin

APRIL 10, 2025 1

Rise of Distributed Deep Learning Training in the Big Model Era: From A Software **Engineering Perspective**

TOSEM'23 May. 2023

• Xuanzhe Liu , Diandian Gu, Zhenpeng Chen, Jinfeng Wen, Zili Zhang, Yun Ma, Haoyu Wang, Xin Jin

Optimizing Half Precision Winograd Convolution on ARM Many-Core Processors

APSYS'22

• Dedong Xie, Zhen Jia, **Zili Zhang**, Xin Jin

Online Aug. 2022

Internship

StepFun. Beijing, China

RESEARCH INTERN OF LLM TRAINING Apr. 2024 - Present

· Optimization for Multimodal and RL Training

Alibaba. Beijing, China

RESEARCH INTERN OF SERVERLESS COMPUTING Jun. 2023 - Apr. 2024

• Optimization for Alibaba Serverless Computing Platform

Mogi. Beijing, China

RESEARCH INTERN OF VECTOR DATABASE Oct. 2021 - Feb. 2023

· Optimization for Faiss runtime

ByteDance Inc. Beijing, China

RESEARCH INTERN OF DL COMPILER Jun. 2021 - Sep. 2021

· Optimization for TVM compiler runtime

Teaching

Operating System (Honor Track) Peking University

Feb. 2024 - July. 2024 TEACHING ASSISTANT

• Correcting students' homework and assisted teachers in the examination paper.

• Organizing the seminar and prepared topics for discussion.

Introduction to Computer System (Honor Track)

Peking University Sep. 2022 - Jan. 2023 TEACHING ASSISTANT

• Correcting students' homework and assisted teachers in the examination paper.

• Organizing the seminar and prepared topics for discussion.

· Coding for the course project.

Introduction to Computer System

Peking University TEACHING ASSISTANT Sep. 2021 - Jan. 2022

• Correcting students' homework and assisted teachers in the examination paper.

- Organizing the seminar and prepared topics for discussion.

• Coding for the course project.

Honors & Awards

University Awards

APRIL 10, 2025

| 2024 | Merit Student of Peking University (1/56), PKU Award | Peking University |
|------|---|-------------------|
| 2024 | National Scholarship (Top 0.4% nationally), PKU Award | Peking University |
| 2024 | Presidential Scholarship of Peking University (highest honor for Ph.D. students), PKU Award | Peking University |
| 2023 | Top 10 Bachelor Thesis of Peking University, EECS (10/408), Graduation Ceremony | Peking University |
| 2023 | Outstanding Graduation Thesis of Peking University (33/4239), Graduation Ceremony | Peking University |
| 2023 | Representor of Excellent Graduates (14/4239), Graduation Ceremony | Peking University |
| 2023 | Excellent Graduates (613/4239), Graduation Ceremony | Peking University |
| 2022 | Exceptional Award for Academic Innovation (5/408), PKU Award | Peking University |
| 2022 | Award for Scientific Research, PKU Award | Peking University |
| 2022 | Lee Wai Wing Scholarship, PKU Award | Peking University |
| 2021 | Award for Scientific Research, PKU Award | Peking University |
| 2020 | Award for Academic Excellents, PKU Award | Peking University |
| 2020 | Third Prize, PKU Award | Peking University |

Skills & Interests

Programming AWS, Docker, Kubernetes, C++, Python, CUDA, Java, Golang, Node.js, Latex

Languages Chinese (native), English

Interests Running (www.itra.run/RunnerSpace/ZHANG.Zili/4938114), Climbing, Traveling, Video Games

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