

PhD Candidate, Department of Computer Science and Technology, Nanjing University

Xianlin Road No.163, Qixia District, Nanjing, Jiangsu, China

□ (+86) 18262626366 | **□** jmt@smail.nju.edu.cn | **☆** jmt1995.github.io | **□** Jmt1995

Biography

I am pursuing a PhD degree under the supervision of Professor Zhuzhong Qian and Professor Baoliu Ye at Nanjing University. Currently, 7 first-author papers have been published or accepted. My research interests include Edge AI, CPN, P4 switch, SDN, Federated Learning, Edge Computing, and Big Data Analytics.

Education ______

Ph.D. in Distributed Computing Lab., Department of Computer Science and Technology

Nanjing University

Sept. 2021 - Now

ADVISOR: PROF. ZHUZHONG QIAN AND PROF. BAOLIU YE. NANJING, JIANGSU, CHINA • Win the Best Paper Award in BigCom 2023

Master's Degree in Department of Computer Science and Technology

Nanjing University

ADVISOR: PROF. ZHUZHONG QIAN. NANJING, JIANGSU, CHINA

Sept. 2018 - Jun. 2021

• Get a First Prize Graduate Scholarship in NJU

B.S. in College of Computer Science and Technology

Nanjing University of Aeronautics and Astronautics

ADVISOR: ASSOCIATE PROF. XIN LI AND ASSOCIATE PROF. HAIYAN CHEN. NANJING, JIANGSU, CHINA

Sept. 2014 - Jun. 2018

• Rank 3st in Qualification Examination for Undergraduate Students (3/120)

Honors & Awards

2021-Now

2024	First Prize of Scholarship for Talents, Nanjing University Scholarship	Nanjing, China
2023	Best Paper Award, The 7th International Conference on Big Data Computing and Communications	Hainan, China
2022	Graduate First Class Scholarship, Annual Awards	Nanjing, China
2022	The Excellent Prize, Intel 2022 P4 China Hackathon	Beijing, China
2021	Outstanding Student Cadre of Nanjing University, Annual Awards	Nanjing, China
014-20	21	

2014-2021

2018	Postgraduate Qualification without Entrance Examination, Undergraduate Evaluation	Nanjing, China
2017	National Inspirational Scholarship, Annual Awards	Nanjing, China
2015	Top 100 Young Students in NUAA, May Fourth Excellent Evaluation	Nanjing, China

Publications _____

CONFERENCE

2024	[C.8] Mingtao Ji, Lei Jiao, Yitao Fan, Yang Chen, Zhuzhong Qian, Ji Qi, Gangyi Luo, Baoliu Ye. Online Scheduling of Federated Learning with In-Network Aggregation and Flow Routing. IEEE SECON.	CCF-B
2023	[C.7] Mingtao Ji, Zhuzhong Qian, Baoliu Ye. When CPN Meets Al: Resource Provisioning for Inference Query	CCF-C
	Upon Computing Power Network. IEEE ICPADS.	
	[C.6] Yitao Fan, Mingtao Ji, Zhuzhong Qian. Accelerating Federated Learning With Adaptive Extra Local	CCF-C
	Updates Upon Edge Networks. IEEE ICPADS.	
	[C.5] Mingtao Ji, Chenwei Su, Yuting Yan, Zhuzhong Qian, Yu Chen, Yibo Jin, Sheng Zhang, Baoliu Ye.	CCF-C
	INTView: Adaptive Planner for In-Band Network Telemetry without Detours. IEEE ICC.	
	[C.4] Mingtao Ji, Mingxian Zhou, Haodong Zou, Ming Tang, Zhuzhong Qian, Xiaoliang Wang. SAC: Dynamic	
	Caching upon Sketch for In-Memory Big Data Analytics. BigCom.	
	[C.3] Yu Chen, Sheng Zhang, Yuting Yan, Zhuzhong Qian, Yibo Jin, Ning Chen, Mingtao Ji, Mingjun Xiao.	CCF-A
	Crowd?, Multi-agent Bandit based Dispatch for Video Analytics upon Crowdsourcing IEEE INFOCOM	CCF-A

Crowd2: Multi-agent Bandit-based Dispatch for Video Analytics upon Crowdsourcing. IEEE INFOCOM.

2019	[C.2] Zhuzhong Qian, Yuan Gao, Mingtao Ji, Hui Peng, Peng Chen, Yibo Jin, Sanglu Lu. Workload-Aware Scheduling for Data Analytics upon Heterogeneous Storage. IEEE ISPA.	CCF-C
	[C.1] Yefei Li, Yibo Jin, Haiyang Chen, Wenchao Xi, Mingtao Ji, Sheng Zhang, Zhuzhong Qian, Sanglu Lu. Run Data Run! Re-Distributing Data via Piggybacking for Geo-Distributed Data Analytics. IEEE ISPA.	CCF-C
Journa	ıL	
	[J.5] Mingtao Ji, Ji Qi, Lei Jiao, Gangyi Luo, Hehan Zhao, Xin Li, Baoliu Ye, Zhuzhong Qian. CPN Meets	
2024	Learning: Online Scheduling for Inference Service in Computing Power Network. Elsevier Computer	CCF-B
	Networks.	
	[J.4] Mingtao Ji, Yibo Jin, Zhuzhong Qian, Tuo Cao, Baoliu Ye. Orchestrating In-network Aggregation for	
	Distributed Machine Learning via In-band Network Telemetry. Journal of Computer Science and	CCF-B
	Technology.	
	[J.3] Mingtao Ji, Chenwei Su, Yitao Fan, Zhuzhong Qian, Yuting Yan, Yibo Jin, Tuo Cao, Yu Chen, Sheng	
	Zhang, Baoliu Ye. INTaaS: Provisioning In-band Network Telemetry as a Service via Online Learning.	CCF-B
	Elsevier Computer Networks.	
	[J.2] Tuo Cao, Qinhui Wang, Yuhan Zhang, Zhuzhong Qian, Yue Zeng, Mingtao Ji, Hesheng Sun, Baoliu Ye.	
	Walking on Two Legs: Joint Service Placement and Computation Configuration for Provisioning	CCF-B
	Containerized Services at Edges. Computer Networks.	
	[J.1] Yibo Jin, Lei Jiao, Mingtao Ji, Zhuzhong Qian, Sheng Zhang, Ning Chen, Sanglu Lu. Scheduling In-Band	005.4
2023	Network Telemetry with Convergence-Preserving Federated Learning. IEEE TON.	CCF-A
Poster		
	[R.2] Mingtao Ji, Zhixin Zhang, Yuhan Zhang, Zhuzhong Qian, Tuo Cao, Baoliu Ye. Incentivizing Edge	
2023	Inference with Accuracy Preserving via Online Randomized Auctions. IEEE SECON Poster.	CCF-B Poster
	[R.1] Mingtao Ji, Chenwei Su, Yuting Yan, Zhuzhong Qian, Sheng Zhang, Yu Chen, Tuo Cao, Xiaohang Shi,	
	Luis Vasquez, Baoliu Ye. INTView: Adaptive Planner for In-Band Network Telemetry without Detours.	CCF-B Poster
	IEEE/ACM IWQOS Poster.	
PATENT		
FAIENI		

- 2023 [P.2] Ji Mingtao (first student inventor), Qian Zhuzhong. Deployment methods, devices, and systems for intelligent monitoring application tasks in cloud data centers (CN116032778A, 2023/06/06).
- 2022 [P.1] Ji Mingtao, Qian Zhuzhong, Wei Lei, Miao Weiwei, Zeng Zeng. A Cloud Oriented Inband Computing Deployment Method, Device, and System (CN114124732A, 2022/11/25).

OTHERS

2023 **[0.1] Ji Mingtao**. Two papers are under review and two papers are in Major Revision.

Grants

2023 **Short-term study abroad program for doctoral students of Nanjing University**, (About \$9600).

Experiences

PROJECTS

Natural Science Foundation of China (NSFC) Project

· Research on Theory, Methods and Key Technologies of Cloud based Fusion Based on edge computing, 61832005.

State Grid Technology Project

- Research and Application of Key Technologies for Collaborative Operation and Intelligent Operation and Maintenance of Multiple Data Centers for Multisite Fusion, SGJSXT00XTJS2000102, 2021-2022
- Research on Collaborative Scheduling Allocation of Computing Resources and Key Operation Technology for Cloud-edge Datacenters, 5700-202218180A-1-1-ZN, 2022-2024.

SERVICES

Journal/Conference Reviewer

INFOCOM'20/21/22, JCST'21, TMC'21, INFOCOM'21, CN'22, MASS'22, INFOCOM'22, INFOCOM'23, ToN'23/24, IWQoS'24.

Course Assistant

- Distributed Systems 22, 23: Lectured by Prof. Zhuzhong Qian.
- Computational Thinking 21, 22, 23: Lectured by Prof. Daoxu Chen, Prof. Xianping Tao, Prof. Zhuzhong Qian.
- Problem Solving 21: Lectured by Prof. Daoxu Chen, Prof. Sanglu Lu, Prof. Sheng Zhang.

Skills_

Programming Python, LaTeX, C, C++

System Linux, Kubernetes, Git, Hadoop **Language** Chinese (Native), English (CET-6)