Qiang Su

Ph.D. Candidate · Computer Science

Room F, 4/F, Block 7, 213 Un Chau Street, Cheung Sha Wan, Kowloon, Hong Kong SAR, 999077

□ +852 66787446 | ■ jacksonsq97@gmail.com | ♠ qiangsu97.github.io

Education _____

City University of Hong Kong

Hong Kong SAR, China 9/2019 - 12/2023

DOCTOR OF PHILOSOPHY

• Advisor: Prof. Jason Xue & Prof. Hong Xu

Northeastern University

BACHELOR OF ENGINEERING

- Computer Science and Technology
- GPA: 4.1146/5.0, Rank: 6/256

Shenyang, China 10/2014 - 6/2018

Work Experience ___

- 2023 Visiting Researcher, Boston University, Advisor: Prof. Alan Zaoxing Liu
- 2022 Research Intern, Microsoft Research Asia, Advisor: Dr. Zhixiong Niu & Dr. Yongqiang Xiong
- 2018-2019 Research Assistant, City University of Hong Kong, Advisor: Prof. Hong Xu

Publication _____

PREPRINTS

Tianle Zhong, Jiechen Zhao, Xindi Guo, **Qiang Su***, Geoffrey Fox*. RINAS: Training with Dataset Shuffling Can Be General and Fast. 2023. (*Corresponding author.)

Qiang Su, Shaofeng Wu, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, Hong Xu. Meili: Enabling SmartNIC as a Service in the Cloud. 2023.

CONFERENCE

Tianle Zhong, Jiechen Zhao, Xindi Guo, **Qiang Su***, Geoffrey Fox*. RINAS: Training with Dataset Shuffling Can Be General and Fast. **Arxiv preprint**, 2023. (*Corresponding author.)

Qiang Su, Shaofeng Wu, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, Hong Xu. Meili: Enabling SmartNIC as a Service in the Cloud. **Arxiv preprint**, 2023.

Hongming Huang, Peng Wang, **Qiang Su**, André Brinkman, Hong Xu, Chun Jason Xue. Palantir: Hierarchical Similarity Detection for Post-Deduplication Delta Compression. To appear in **ACM ASPLOS**, 2024.

Jiamin Li, **Qiang Su**, Yitao Yang, Yimin Jiang, Cong Wang, Hong Xu. Adaptive Gating in Mixture-of-Experts based Language Models. **EMNLP**, 2023.

Qiang Su, Chuanwen Wang, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Dongsu Han, Chun Jason Xue, Hong Xu. PipeDevice: A Hardware-Software Co-Design Approach to Intra-Host Container Communication. **ACM CONEXT**, 2022.

Zhixiong Niu, Hong Xu, Peng Cheng, **Qiang Su**, Yongqiang Xiong, Tao Wang, Dongsu Han, Keith Winstein. NetKernel: Making Network Stack Part of the Virtualized Infrastructure. **USENIX ATC**, 2020.

JOURNAL

Qiang Su, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Dongsu Han, Chun Jason Xue, Hong Xu. Low-Overhead Intra-Host Container Communication with Hardware Offloading. In submission to **IEEE/ACM ToN**, 2023.

Zhixiong Niu, **Qiang Su**, Peng Cheng, Yongqiang Xiong, Dongsu Han, Keith Winstein, Chun Jason Xue, Hong Xu. NetKernel: Making Network Stack Part of the Virtualized Infrastructure. **IEEE/ACM ToN**, 2021.

WORKSHOP

DECEMBER 2023 QIANG SU · CURRICULUM VITAE

Qiang Su, Shaofeng Wu, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Chun Jason Xue, Zaoxing Liu, Hong Xu. Meili: Towards SmartNIC as a Service. **ACM SIGCOMM Demos and Posters**, 2023.

Qiang Su, Chuanwen Wang, Zhixiong Niu, Ran Shu, Peng Cheng, Yongqiang Xiong, Dongsu Han, Chun Jason Xue, Hong Xu. PipeDevice: A Hardware-Software Co-Design Approach to Intra-Host Container Communication. **ACM SIGCOMM Demos and Posters**, 2022.

Honor & Award 2019-2023 Postgraduates Studentship, City University of Hong Kong 2022 Research Tuition Scholarship, City University of Hong Kong 2017 Excellent Student Leader, Northeastern University 2016 National Scholarship, Northeastern University 2016 Honorable Mention, The Interdisciplinary Contest in Modeling 2015 Pacesetter of Excellent Student, Northeastern University

Fall 2023. Network Stack in the Cloud. Invited talk: Central South University, Changsha, China.

Spring 2023. Towards SmartNIC as a Service. Invited talk: Northeastern University, Boston, USA.

Teaching Experience _____

CS5222	Computer Networks & Internets,	Teaching Assistant,	Fall 2023/2022/2021
--------	--------------------------------	---------------------	---------------------

CS3402 Database Systems, Teaching Assistant, Spring 2023/2021

CS1302 Introduction to Computer Programming, Teaching Assistant, Fall 2020

CS1102 Introduction to Computer Studies, Teaching Assistant, Spring 2020

CS2311 Computer Programming, Teaching Assistant, Fall 2019

Service

Conference EMNLP 2023, TPC

Journal ToN 2022-2023, Reviewer

EuroSys 2024, SOSP 2023, SIGCOMM 2023, OSDI 2022, ATC 2022, CONEXT 2022,

Artifact Committee Member