



YI CHEN

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RESEARCH INTERESTS

Computer systems, cloud and mobile computing, reliability

EDUCATION

University of Michigan

August 2023 – Present

Ph.D. - Computer Science and Engineering

- Advisor: Prof. Ryan (Peng) Huang

Zhejiang University

Sept. 2019 – June 2023

B.E. - Computer Science and Technology | Outstanding Graduate

- Advisor: Prof. Zeke Wang
- Thesis: Design and Implementation of Virtual Machine-based Trusted Execution Environment for RISC-V (Outstanding Bachelor's Thesis)

RESEARCH EXPERIENCE

Intern (remote), Computer Science and Artificial Intelligence Laboratory, MIT

July 2022 - June 2023

- Advised by Mengjia Yan, Assistant Professor, MIT EECS
- Worked on the project of a trusted execution environment based on RISC-V

Intern, Computer Architecture Laboratory, Zhejiang University

Sept. 2021 - June 2023

- Mainly focused on the research of hardware-software co-design

PUBLICATIONS

- [CCGrid 2023] Y. Chen, J. Chen, Y., **Yi Chen**, Z. Jin, J. Xu, G. Fang, W. Lin, C. Wei, W. Chen. HyQ: Hybrid I/O Queue Architecture for NVMe over Fabrics to Enable High-Performance Hardware Offloading. 23rd IEEE/ACM International Symposium On Cluster, Cloud and Internet Computing. May 2023.
- [HPCA 2023] Y. Chen, J. Xu, C. Wei, Y. Wang, X. Yuan, Y. Zhang, X. Yu, **Y. Chen**, Z. Wang, S. He, W. Chen. BM-Store: A Transparent and High-performance Local Storage Architecture for Bare-metal Clouds Enabling Large-scale Deployment. 29th IEEE International Symposium on High-Performance Computer Architecture. February 2023.
- [ICCCBDA 2022] P. Liu, **Y. Chen**, L. Fu, M. Yan, and Z. Wang. cMobiDesk: A Lightweight Solution for Android Desktop Virtualization. 7th International Conference on Cloud Computing and Big Data Analytics. April 2022.

COMPETITIONS

10th ASC Student Supercomputer Challenge (Hefei, China)

Dec. 2021 - May 2023

- 1st class prize out of 350+ teams worldwide
- The Highest Linpack prize

SC 22 Student Cluster Competition (Dallas, United States)

Nov. 2022

- 4th place out of 13 selected teams in a 48-hour challenge at the International Conference for High Performance Computing, Networking, Storage, and Analysis (SC 22)
- Individual 1st place in the Reproducibility Challenge

ISC 2022 Student Cluster Competition (Hamburg, Germany)

Dec. 2021 - June 2022

- 5th place out of 16 selected teams at a session of the International Supercomputing Conference

“Sunway CUP” China Parallel Application Challenge (Wuxi, China)

Sept. 2021

- 3rd class prize

ASC 20-21 Student Supercomputer Challenge (Shenzhen, China)

Dec. 2020 - May 2021

- 2nd class prize; 27th out of 300+ teams worldwide

HONORS AND AWARDS

Zhejiang Ordinary College Outstanding Graduate	June 2023
China National Scholarship	Oct. 2022
The First Class Scholarship of Zhejiang University	Oct. 2022
Outstanding Student of Zhejiang University	Oct. 2022
China National Scholarship	Oct. 2021
The First Class Scholarship of Zhejiang University	Oct. 2021
Outstanding Student of Zhejiang University	Oct. 2021
The Second Class Scholarship of Zhejiang University	Oct. 2020
Outstanding Student of Zhejiang University	Oct. 2020

TEACHING & WORK EXPERIENCE

Student Supercomputing Team, Zhejiang University

Academic Year 2022-2023

- Team leader

Introduction to High Performance Computing, Zhejiang University

Intersession 2022

- Teaching Assistant (lead)

Introduction to High Performance Computing, Zhejiang University

Intersession 2021

- Teaching Assistant