Zhang **Xiao**

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About me

I am a master student in Shanghai Jiao Tong University advised by Prof. **Shizhen Zhao** and also work together with Prof. **Vincent Liu**. My research interests focus on networked systems. I am fascinated by the combination of theory and practice in networked systems.

Education

Shanghai Jiao Tong University   *Shanghai, China*
M.E. in Communication Engineering, GPA: 3.76/4.0   *Sept. 2021 - Present*

Shanghai Jiao Tong University   *Shanghai, China*
B.E. in Information Engineering, GPA: 3.81/4.3   *Sept. 2017 - June. 2021*
- Thesis title: Design of Robust and Efficient Edge Server Placement and Server Scheduling Policies

Research Experience

University of Pennsylvania, advised by Prof. Vincent Liu   *Philadelphia, USA*
Visiting Student   *July. 2023 - Present*
- *Beaver*: Enabling Practical Distributed Snapshots Exploiting Software Load Balancers.

Shanghai Jiao Tong University, advised by Prof. Shizhen Zhao   *Shanghai, China*
Master Student   *Sep. 2021 - July. 2023*
- *Flattened Clos Plus (FC+)*: Near-optimal topology-routing co-design free of deadlocks for RoCE-based expander networks.
- *Flattened Clos (FC)*: Deadlock-free topology-routing co-design for RoCE-based expander networks.
- *Time Synchronization for Edge Devices*: High-precision time synchronization design for edge devices.

Shanghai Jiao Tong University, advised by Prof. Shizhen Zhao   *Shanghai, China*
Undergraduate Student   *March. 2020 - Feb. 2021*
- Design of Robust and Efficient Edge Server Placement and Server Scheduling Policies.

Publication & Insubmission

PUBLICATION

- **Xiao Zhang**, Peirui Cao, Yongxi Lyu, Qizhou Zhang, Shizhen Zhao, Xinbing Wang, Chenghu Zhou "FC+: Near-optimal Deadlock-free Expander Data Center Networks", Wuhan, China, December, 2023.   ISPA

- Shizhen Zhao*, Qizhou Zhang*, Peirui Cao, **Xiao Zhang**, Xinbing Wang, Chenghu Zhou, "Flattened Clos: Designing High-performance Deadlock-free Expander Data Center Networks Using Graph Contraction" in Boston, MA, USA (2023).   NSDI

- Shizhen Zhao*, **Xiao Zhang***, Peirui Cao, Xinbing Wang, "Design of Robust and Efficient Edge Server Placement and Server Scheduling Policies" Virtual Event (2021).   IWQOS

Honors & Awards

2021   **Awardee**, Outstanding Graduate of Shanghai   *Shanghai, China*
2020   **Awardee**, Liu Yongling Scholarship   *Shanghai, China*
2018-20 **Awardee**, Category B Academic Scholarship   *Shanghai, China*

Skills

Programming   C/C++, Python, Verilog, VHDL, Matlab
Tools   eBPF, DPDK, FPGA, Network Simulator 3 (NS-3)
Languages   English, Chinese