Zhang **Xiao**

(+1) 7373822777 | zx123@utexas.edu | timez-zx.github.io | Timez-zx

About me

I am a first-year Phd student at UT Austin, working together with Daehyeok Kim. My research interests focus on networked systems. I am working on learning-based systems for 5G use case now.

Education

UT Austin *Austin, Texas*
Phd in Computer Science *Sept. 2024 - Present*

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

UT Austin, working together with Daehyeok Kim *Austin, TX*
Phd Student *Sept. 2024 - Present*

- *Learned system for 5G*: Design learning-based systems to enhance the performance of 5G systems.

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.

Publication

Liangcheng Yu, **Xiao Zhang**, Haoran Zhang, John Sonchack, Dan Ports, Vincent Liu, ”Beaver: Enabling Practical Distributed Snapshots Exploiting Software Load Balancers”, July, 2024. OSDI

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