

Gaoxiong Zeng

Contact Information

Email: gaoxiongzeng@qq.com

Telephone: +852-68713173

Webpage: <https://gaoxiongzeng.github.io>

Office 3661 (Lift 31/32), Academic Building

Hong Kong University of Science and Technology

Clear Water Bay, Hong Kong SAR, China

Education

Hong Kong University of Science and Technology (HKUST)

Ph.D. in Computer Science and Engineering

Advisor: Prof. Kai Chen

Hong Kong, China

2015 - Present

University of Science and Technology of China (USTC)

B.E. in Electronic Engineering and Information Science

Hefei, China

2011 - 2015

Experiences

[Research Intern] Peng Cheng Laboratory, Shenzhen, China

2019.09 - 2020.01

[Research Intern] Huawei Technologies, Hong Kong, China

2018.11 - 2019.01

[Research Intern] Chinese Academy of Sciences, Beijing, China

2014.07 - 2014.08

Research Interests

Data Center Networking (e.g., transport protocols, programmable networks, AI acceleration, etc.)

Publications

Conference Publications:

[C-2] Aeolus: A Building Block for Proactive Transport in Datacenters

Shuihai Hu, Wei Bai, **Gaoxiong Zeng**, Zilong Wang, Kai Chen, Kun Tan, Yi Wang

The Annual Conference of the ACM Special Interest Group on Data Communication (**SIGCOMM**), 2020.

[C-1] Congestion Control for Cross-Datacenter Networks

Gaoxiong Zeng, Wei Bai, Ge Chen, Kai Chen, Dongsu Han, Yibo Zhu, Lei Cui

The 27th IEEE International Conference on Network Protocols (**ICNP**), 2019.

Workshop Publications:

[W-2] Rethinking Transport Layer Design for Distributed Machine Learning

Jiacheng Xia, **Gaoxiong Zeng**, Junxue Zhang, Weiyan Wang, Wei Bai, Junchen Jiang, Kai Chen

The 3rd ACM Asia-Pacific Workshop on Networking (**APNet**), 2019.

[W-1] Combining ECN and RTT for Datacenter Transport

Gaoxiong Zeng, Wei Bai, Ge Chen, Kai Chen, Dongsu Han, Yibo Zhu

The 1st ACM Asia-Pacific Workshop on Networking (**APNet**), 2017.

Journal Publications:

[J-1] Transport Protocols for Data Center Networks: A Survey

Gaoxiong Zeng, Shuihai Hu, Junxue Zhang, Kai Chen

Journal of Computer Research and Development (**J-CRAD**), 2020.

Posters & Demos:

- **Improved Path Compression for Explicit Path Control in Production Data Centers**

Shuihai Hu, Kai Chen, **Gaoxiong Zeng**

The 13th USENIX Symposium on Networked Systems Design and Implementation (**NSDI**), 2016.

Honors & Awards

[HKUST] Research Postgraduate Scholarship	<i>2015, 2016, 2017, 2018, 2019, 2020</i>
[ACM APNet] Student Travel Grant	<i>2017</i>
[USTC] Graduation Award of the Talent Program in Computer & Information Sci. & Tech.	<i>2015</i>
[USTC] 1 st Place in the Electronics Design Competition of the Talent Program	<i>2014</i>
[USTC] Outstanding Student Scholarship	<i>2012, 2013, 2014</i>
[Department of Education, Guangdong] Provincial Soong Ching Ling Scholarship	<i>2010</i>