

Gaoxiong Zeng

Contact Information

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Hong Kong University of Science and Technology

Clear Water Bay, Hong Kong, China

Education

Hong Kong University of Science and Technology (HKUST)

Ph.D. in Computer Science and Engineering

Advisor: Prof. Kai Chen

Hong Kong, China

Aug. 2015 - Present

University of Science and Technology of China (USTC)

B.E. in Electronic Engineering and Information Science

Hefei, China

Sept. 2011 - June 2015

Experience

[Research Intern] Peng Cheng Laboratory, Shenzhen, China

2019-Present

[Research & Teaching Assistant] Hong Kong University of Science and Technology, Hong Kong

2015-Present

[Research Intern] Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China

2014

Research Interest

Data center networking and machine learning systems (with particular interest in transport layer designs).

Publications

Conference Publications:

- **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.

Journal Publications:

- **Transport Protocols for Data Center Networks: A Survey / 数据中心网络传输协议综述**

Gaoxiong Zeng, Shuihai Hu, Junxue Zhang, Kai Chen

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

Workshop Publications:

- **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.

- **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.

Posters:

- **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</i>
[USTC] Graduation Award of The Talent Program in Computer & Information Sci. & Tech.	<i>2015</i>
[USTC] Outstanding Student Scholarship	<i>2012, 2013, 2014</i>
[Department of Education, Guangdong] Provincial Soong Ching Ling Scholarship	<i>2010</i>