

# Gaoxiong Zeng (曾高雄)

## Contact Information

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## Education

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**Hong Kong University of Science and Technology (HKUST)**

**Hong Kong, China**

*Ph.D. in Computer Science and Engineering*

*2015 - Present*

Advisor: Prof. Kai Chen

**University of Science and Technology of China (USTC)**

**Hefei, China**

*B.E. in Electronic Engineering and Information Science*

*2011 - 2015*

## Experiences

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[Research Intern] Peng Cheng Laboratory, Shenzhen, China

*2019.09 - Present*

[Research Intern] Huawei, Hong Kong, China

*2018.11 - 2019.01*

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

*2014.07 - 2014.08*

## Research Interests

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Data Center Networking; Machine Learning Systems.

## Publications

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### 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.

### 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.

### 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.

## 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

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[HKUST] Research Postgraduate Scholarship *2015, 2016, 2017, 2018, 2019, 2020*

[USTC] Graduation Award of The Talent Program in Computer & Information Sci. & Tech. *2015*

[USTC] Outstanding Student Scholarship *2012, 2013, 2014*

[Department of Education, Guangdong] Provincial Soong Ching Ling Scholarship *2010*