

The University of Chicago Computer Science Department

**PRESENTS:**

“Towards Practical Networked Systems for Data Centers”



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*Abstract:*

Data centers are the main infrastructures for big data and cloud computing. In our SING lab at HKUST, we have been working on data center networking systems research for years. In this talk, I will start with briefly introducing a lab-scale 100-server data center cluster we built in the last 4 years and some representative networked system projects we implemented based on it. Then, I will elaborate more on the project of multi-level flow scheduling, and its adoption in practice to support real machine learning applications in a large Internet company. At last, I will conclude my talk with the plan on connecting lab research with real-world for more practical impacts.

*Bio:*

Kai Chen is an assistant professor with Computer Science Department at Hong Kong University of Science and Technology, where he leads the system networking (SING) lab. He received his PhD in Computer Science from Northwestern University in 2012. His main research interests include networked systems design and implementation, data center networks, networking support for cloud and big data applications. His work has appeared in top conferences such as SIGCOMM and NSDI, and he is actively collaborating with large companies such as Microsoft, Tencent, and Huawei to push his research into practice.

**Tuesday, December 6, 2016**

**3:00 pm**

**Ryerson 255**

**Host: Shan Lu**

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