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RESEARCH INTERESTS

I am broadly interested in computer systems, from single machine systems to data centers. Recently, I mainly work on graph computation systems and graph mining. I also work a bit on data mining, and take an interest in machine learning.

EDUCATION

The Chinese University of Hong Kong

2012 - Present

- Ph.D Candidate, Department of Computer Science & Engineering.
- Advised by Prof. John C.S. Lui.

Shanghai Jiao Tong University

2008 - 2012

• Bachelor of Science, ACM Class, Department of Computer Science & Engineering.

RESEARCH EXPERIENCE

Sep 2012 - Present Research Assistant in Industry Collaboration at Noah's Ark Lab, Huawei

- Stream processing (advised by Prof. John C.S. Lui and Prof. Patrick P. C. Lee). Developed the prototype of the StreamSMART platform for Huawei.
- Graph processing (advised by Prof. John C.S. Lui).

 Developed a single-machine disk-based graph processing system called VENUS which has been deployed inside Huawei.

Feb 2012 - June 2012

Research Assistant at Center for Brain-like Computing and Machine Intelligence

• Developed a sketch-based image search system called Painting-Finder (advised by Prof. Liqing Zhang).

July 2011 - Feb 2012

Research Intern at Tencent

• Worked on malware analysis.

July 2010 - Jun 2011

Research Assistant at Center for Brain-like Computing and Machine Intelligence

• Worked on brain computer interface and EEG data processing (advised by Prof. Liqing Zhang).

PUBLICATIONS

Conference:

- VENUS: Vertex-Centric Streamlined Graph Computation on a Single PC Jiefeng Cheng, Qin Liu, Zhenguo Li, Wei Fan, John C.S. Lui, Cheng He. *ICDE 2015*
- SAND: A Fault-Tolerant Streaming Architecture for Network Traffic Analytics Qin Liu, John C.S. Lui, Cheng He, Lujia Pan, Wei Fan, Yunlong Shi. DSN 2014 (practical experience report)
- Combining Factorization Model and Additive Forest for Collaborative Followee Recommendation

Tianqi Chen, Linpeng Tang, **Qin Liu**, Diyi Yang, Saining Xie, Xuezhi Cao, Chunyang Wu, Enpeng Yao, Zhengyang Liu, Zhansheng Jiang, Cheng Chen, Weihao Kong, Yong Yu. *KDD-Cup Workshop 2012* (Our method won the 1st place in KDD-Cup'12 track 1)

Journal:

- Walking in the Cloud: Parallel SimRank at Scale
 Zhenguo Li, Yixiang Fang, Qin Liu, Jiefeng Cheng, Reynold Cheng, John C.S. Lui.
 Proceedings of the VLDB Endowment, 9(1), 2015 (to appear)
- SAND: A fault-tolerant streaming architecture for network traffic analytics Qin Liu, John C.S. Lui, Cheng He, Lujia Pan, Wei Fan, Yunlong Shi. *Journal of Systems and Software*, 2015
 (An earlier version appeared in DSN 2014)

Fall 2009

ver Medal (38th place) in National Olympiad in Informatics (NOI), China	2011 2007
CUHK: ching Assistant of Introduction to Operating Systems	Fall 2014/2012
ching Assistant of Data Communication and Computer Networks ching Assistant of Principles of System Software	Spring 2014/2013 Fall 2013
SJTU: ching Assistant of Machine Learning and Data Mining in Practice ching Assistant of Project Workshop of Operating System ching Assistant of Project Workshop of Compiler Principles aching Fellow of Programming ching Assistant of Practice for Programming and Coding Ability	Spring 2012 Fall 2011 Spring 2011 Fall 2010 Fall 2010 Spring 2010
S	CUHK: Ching Assistant of Introduction to Operating Systems Ching Assistant of Data Communication and Computer Networks Ching Assistant of Principles of System Software SJTU: Ching Assistant of Machine Learning and Data Mining in Practice Ching Assistant of Project Workshop of Operating System Ching Assistant of Project Workshop of Compiler Principles Ching Fellow of Programming

Teaching Assistant of Programming