

EDUCATION	The Chinese University of Hong Kong	Aug 2012 - Aug 2016
	<ul style="list-style-type: none"> <li>Ph.D, Department of Computer Science &amp; Engineering.</li> <li>Advised by <a href="#">Prof. John C.S. Lui</a>.</li> </ul>	
	Shanghai Jiao Tong University	Sep 2008 - July 2012
	<ul style="list-style-type: none"> <li>Bachelor of Science, <a href="#">ACM Class</a>, Department of Computer Science &amp; Engineering.</li> </ul>	
EXPERIENCE		Feb 2017 - now
	Leader of the Infra team. Moqi Inc., Beijing, China	
		Sep 2016 - Feb 2017
	Researcher. Huawei Noah's Ark Lab, Hong Kong, China	
	<ul style="list-style-type: none"> <li>Led the development of a smart information assistant called <a href="#">Sylvia</a>.</li> </ul>	
		Sep 2012 - Oct 2015
	Industry-university collaboration. Huawei Noah's Ark Lab, Hong Kong.	
	<ul style="list-style-type: none"> <li>Stream processing: developed the prototype of StreamSmart which is a stream data mining platform that supports various streaming algorithms in Huawei's product line (e.g., DPI and anomaly detection)</li> <li>Graph processing: <ul style="list-style-type: none"> <li>Developed VENUS, a disk-based graph computation system.</li> <li>Developed CloudWalker and PowerWalk for SimRank and Personalized PageRank computation.</li> <li>VENUS and CloudWalker have been used in Huawei App Store to support large-scale graph-based App recommendation.</li> </ul> </li> <li>Filed four patents.</li> </ul>	
		Feb 2012 - June 2012
	Undergraduate student. Center for Brain-like Computing and Machine Intelligence (BCMI), SJTU.	
	<ul style="list-style-type: none"> <li>Developed a sketch-based image search system called <a href="#">Painting-Finder</a> with <a href="#">Prof. Liqing Zhang</a>.</li> </ul>	
		July 2011 - Feb 2012
	Research Intern. Tencent PC Manager Team, Tencent, Shenzhen.	
	<ul style="list-style-type: none"> <li>Worked on malware defense and analysis.</li> </ul>	
		July 2010 - Jun 2011
	Undergraduate student. Center for Brain-like Computing and Machine Intelligence (BCMI), SJTU.	
	<ul style="list-style-type: none"> <li>Worked on brain computer interface and EEG data processing with <a href="#">Prof. Liqing Zhang</a>.</li> </ul>	
AWARDS & HONORS	<b>1st place</b> in KDD Cup 2012, Track 1 (Coleader of Team <a href="#">ACMClass@SJTU</a> )	2012
	Academic Excellence Scholarship (2nd-prize), SJTU	2011
	<b>Silver Medal</b> (38th place) in <i>National Olympiad in Informatics (NOI)</i> , China	2007

## PUBLICATIONS

### Conference:

- **Graph Edge Partitioning via Neighborhood Heuristic**  
Chenzi Zhang, Fan Wei, **Qin Liu**, Zhihao Gavin Tang, Zhenguo Li.  
*The 23rd SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, Aug 2017  
(oral presentation)
- **PowerWalk: Scalable Personalized PageRank via Random Walks with Vertex-Centric Decomposition**  
**Qin Liu**, Zhenguo Li, John C.S. Lui., Jiefeng Cheng  
*The 25th ACM International Conference on Information and Knowledge Management (CIKM)*, October 2016
- **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 (PVLDB)*, 9(1), 2015
- **VENUS: Vertex-Centric Streamlined Graph Computation on a Single PC**  
Jiefeng Cheng, **Qin Liu**, Zhenguo Li, Wei Fan, John C.S. Lui, Cheng He.  
*The 31st IEEE International Conference on Data Engineering (ICDE)*, April 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.  
*The 44th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*, June 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*, August 2012 (1st place in track 1)

### Journal:

- **VENUS: A System for Streamlined Graph Computation on a Single PC**  
**Qin Liu**, Jiefeng Cheng, Zhenguo Li, John C.S. Lui.  
*IEEE Transactions on Knowledge and Data Engineering (TKDE)*, Nov 2015  
(An earlier version appeared in 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.  
*Journal of Systems and Software (JSS)*, Aug 2015  
(An earlier version appeared in DSN 2014)