

Linpeng Tang

PhD Candidate
Computer Science Department
Princeton University

Email: chnttlp@gmail.com
Personal Page: www.cs.princeton.edu/~linpengt

Research Interest

I am broadly interested in computer systems, especially data storage, caching and computation, from single machine systems (like GPU/Xeon Phi) to data centers, and globally distributed content delivery networks.

I also work a bit on data mining and machine learning, and take an interest in theoretical computer science.

Education

09/2012 – now: PhD student, Computer Science Department, Princeton University. Advised by Kai Li.

09/2008 – 07/2012: Undergraduate, *ACM Honored Class*, Department of Computer Science, Shanghai Jiao Tong University, PRC (Rank 1/26)

Awards and Honors

Best Student Paper Award, CIKM 2012

1st Place in KDD Cup Data Mining Contest 2011, Track 1 (Coleader of Team *ACMClass@SJTU*).

Fu Di Scholarship, 2011. (1 out of 26)

National Scholarship, 2010. (highest scholarship in PRC, top 2%)

Academic Excellence Scholarship (first-class), 2010. (top 2%)

Schneider Scholarship, 2009. (7 out of about 1000)

Academic Excellence Scholarship (first-class), 2009. (top 2%)

Research & Industrial Experience

06/2013 – 09/2013 and 06/2013 – 09/2013: **Research Intern** at Facebook, mainly working on their photo/video delivery stack.

07/2011 – 01/2012: **Full Time Research Intern** at HP Labs China, networking group. Supervised by Zhiyong Shen and Ping Luo.

07/2010 – 07/2011: **Research Assistant** at BASICS Lab, which focuses on theoretic computer science. Supervised by Prof. Yuxi Fu and Dr. Pinyan Lu.

Papers

Linpeng Tang, Qi Huang, Wyatt Lloyd, Sanjeev Kumar, Kai Li. RIPQ: Advanced Photo Caching on Flash for Facebook. In *Proc. 13th USENIX conference on File and Storage Technologies (FAST 15)*, February 2015. (to appear).

Rajesh Ranganath, **Linpeng Tang**, Laurent Charlin, David M. Blei. Deep Exponential Families. In *Proc. 18th International Conference on Artificial Intelligence and Statistics (AISTATS 15)*, May 2015. (to appear)

Subramanian Muralidhar, Wyatt Lloyd, Sabyasachi Roy, Cory Hill, Ernest Lin, Weiwen Liu, Satadru Pan, Shiva Shankar, Viswanath Sivakumar, **Linpeng Tang**, and Sanjeev Kumar. f4: Facebook's Warm BLOB Storage System. In *Proc. 11th Symposium on Operating Systems Design and Implementation (OSDI 14)*, October 2014.

Undergraduate Works

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. Combining Factorization Model and Additive Forest for Collaborative Followee Recommendation. *KDD-Cup Workshop*, August 2012. (Our method won the 1st place in KDDCup 2012, Track 1)

Linpeng Tang, Lei Zhang, Ping Luo, Min Wang. Incorporating Occupancy into Frequent Pattern Mining for High Quality Pattern Recommendation. In *Proc. 21st ACM international conference on Information and knowledge management (CIKM 12)*, October 2012. (best student paper award)

Lei Zhang, **Linpeng Tang**, Ping Luo, Enhong Chen, Limei Jiao, Min Wang, Guiquan Liu. Harnessing the Wisdom of the Crowds for Accurate Web Page Clipping. In *Proc. 18th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 12)*, August 2012.

Linpeng Tang, Zhiyong Shen, Qunyang Lin, Junqing Xie. Towards a More Accurate Network Coordinate System with Robust Error Measure. In *Proc. 11th International IFIP TC 6 Conference on Networking (IFIP Networking 12)*, May 2012.

Li Han, Chunzhi Su, **Linpeng Tang**, Hongyang Zhang. On Strategy-proof Allocation without Payments or Priors. In *The 8th Workshop on Internet & Network Economics (WINE 2012)*, December 2012.

Patents

High-efficient FPGA-based Routing Algorithm

Pattern Mining Based On Occupancy

Teaching Assistant Experience

Graduate Teaching Experience

09/2014 – 01/2015: Assistant Instructor, Princeton University
Advanced Computer Networks

09/2013 – 01/2014: Assistant Instructor, Princeton University
Computers in Our World

Undergraduate Teaching Experience

02/2012 – 06/2012: Teaching Assistant, Shanghai Jiao Tong University
Machine Learning and Data Mining Practice

09/2011 – 01/2012: Teaching Assistant, Shanghai Jiao Tong University
Project Workshop of Operating System Principles

02/2011 – 06/2011: Teaching Assistant, Shanghai Jiao Tong University
Project Workshop of Compiler Principles

09/2010 – 01/2011: Teaching Assistant, Shanghai Jiao Tong University
Mathematical Logic and Set Theory

07/2010 – 01/2011: Teaching Assistant, Shanghai Jiao Tong University
Practice on Programming and Coding Ability