

YANQING PENG

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EDUCATION

- University of Utah** Aug. 2016 - Present
Ph.D student in Computer Science
GPA: 4.0/4.0
- Shanghai Jiao Tong University** Sept. 2012 - Jun. 2016
B.Eng. in Computer Science and Technology.
In **ACM Honors Class** program at SJTU.
GPA: 3.9/4.3

RESEARCH INTEREST

My current research interest is in large-scale data management systems; in particular, data sketches for temporal data, learning-based system tuning (ML for System), security and privacy issues in large-scale data processing through hardware (e.g. SGX) and software (e.g., ORAM) techniques, and blockchain-based systems. I also have experience with networking researches.

PUBLICATIONS AND WORKING PAPER

1. Wenchao Zhou, Yifan Cai, **Yanqing Peng**, Sheng Wang, Ke Ma, Feifei Li, “VeriDB: An SGX-based Verifiable Database”, **SIGMOD’21**.
2. Benwei Shi, Zhuoyue Zhao, **Yanqing Peng**, Feifei Li, Jeff Phillips, “At-the-time and Back-in-time Persistent Sketches”, **SIGMOD’21**.
3. **Yanqing Peng**, Min Du, Feifei Li, Raymond Cheng, Dawn Song, “FalconDB: Blockchain-based Collaborative Database”, **SIGMOD’20**.
4. Xinyang Yu, **Yanqing Peng**, Feifei Li, Sheng Wang, Xiaowei Shen, Huijun Mai, Yue Xie, Lingjie Xu, “Two-Level Data Compression using Machine Learning in Time Series Database”, **ICDE’20**.
5. Yuwei Wang, Yan Zheng, **Yanqing Peng**, Wei Zhang, Feifei Li, “Feature detection and alleviation of Embedding”, **arXiv:1910.05862**.
6. Zhenzhe Zheng, **Yanqing Peng**, Fan Wu, Shaojie Tang, Guihai Chen, “ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets”, **TMC’19**.
7. Debjyoti Paul, **Yanqing Peng**, Feifei Li, “Bursty Event Detection Throughout Histories”, **ICDE’19**.
8. **Yanqing Peng**, Jinwei Guo, Feifei Li, Weining Qian, Aoying Zhou, “Persistent Bloom Filter: Membership Testing for the Entire History”, **SIGMOD’18**.
9. Zhenzhe Zheng, **Yanqing Peng**, Fan Wu, Shaojie Tang, Guihai Chen, “An Online Pricing Mechanism for Mobile Crowdsensing Data Markets”, **MobiHoc’17**.
10. Bojie Li, Kun Tan, Larry Luo, **Yanqing Peng**, Renqian Luo, Ningyi Xu, Yongqiang Xiong, Peng Cheng, “ClickNP: High flexibility and High-performance Network Processing with Reconfigurable Hardware”, **SIGCOMM’16**.
11. Zhenzhe Zheng, **Yanqing Peng**, Fan Wu, Shaojie Tang, Guihai Chen, “Trading Data in the Crowd: Profit-Driven Data Acquisition for Mobile Crowdsensing”, **JSAC’16 Game Theory for Networks special issue**.

PROFESSIONAL ACTIVITIES

External Reviewer for **VLDB 2020, IEEE ICCCN 2016, TKDE 2016, INFOCOM 2016, Smart Data Pricing Workshop of INFOCOM 2015**

SCHOLARSHIPS AND AWARDS

Google PhD Fellowship 2020
Award of Excellence in MSRA Internship Program, Microsoft Research Asia 2016
Academic Excellence Scholarship, Shanghai Jiao Tong University 2013, 2014, 2015

RESEARCH EXPERIENCE

InitialD Lab, *University of Utah* Aug. 2016 - Present
Advisor: Prof. Feifei Li
Research on SGX, blockchain technology, and optimization in data management systems.

Database Lab, *Alibaba Group* May 2019 - Aug. 2019
Advisor: Dr. Sheng Wang
Research on SGX-based database and machine learning for database.

Security Group, *University of California, Berkeley* Jan. 2019 - May 2019
Advisor: Dr. Min Du and Prof. Dawn Song
Research on blockchain database.

DMX Group, *Microsoft Research* May 2018 - Aug. 2018
Advisor: Dr. Christian Konig and Dr. Vivek Narasayya
Research on machine learning based tenant placement in DaaS.

Data Group, *East China Normal University* May 2017 - Aug. 2017
Advisor: Prof. Weining Qian and Prof. Aoying Zhou
Research on data structures for temporal data.

Wireless and Networking Group, *Microsoft Research Asia* Aug. 2015 - Jan. 2016
Advisor: Dr. Kun Tan
Research on software-defined networking, network function virtualization, and FPGA.

Advanced Networking Lab, *Shanghai Jiao Tong University* Jun. 2014 - Jul. 2015
Advisor: Prof. Fan Wu
Research on mobile crowdsensing.

TEACHING EXPERIENCE

UofU CS 6530 Database System Fall 2017, Fall 2018
SJTU CS392 Database System Spring 2016
SJTU CS358 Data Structure Fall 2014
SJTU CS122 Programming Fall 2013