

# Zhikun Zhang

Ph.D candidate

College of Control, Zhejiang Univ.  
Zheda Rd.38, Hangzhou, 310027

☎ +86 137 5716 2052

✉ zhangzhk@zju.edu.cn

## Education & Experience

- 2014.09– **Ph.D candidate of Control Science and Engineering**, *College of Control Science and Engineering, Zhejiang University*.  
Co-supervised by Prof. Jiming Chen (Changjiang Scholar) and Prof. Shibo He (Thousand Youth Talents Plan)
- 2017.10–2019.05 **Visiting Student of Computer Science**, *Computer Science Department, Purdue University*.  
Supervised by Prof. Ninghui Li
- 2010.09–2014.06 **Bachelor, Major in Control Science and Engineering**, *College of Control Science and Engineering, Shandong University*.  
Supervised by Prof. Huanshui Zhang (Changjiang Scholar)

## Research Interest

My research is directed towards local differential privacy and its application, such as marginal release and location privacy. Besides, I also study the co-design of local differential privacy and mechanism design. Considering the strategical behavior of data owners, data collector can provide data owners rewards to induce them choose lower privacy preserving level to improve data utility.

## Publications

- [C3] **Zhikun Zhang**, Tianhao Wang, Ninghui Li, Shibo He, Jiming Chen. CALM: Consistent Adaptive Local Marginal for Marginal Release under Local Differential Privacy, *Proceedings of ACM CCS 2018*, accepted.
- [C2] Jiajun Zhang, Xiaohui Liang, Shibo He, **Zhikun Zhang**, Zhiguo Shi. Re-DPector: Real-time Health Data Releasing with w-day Differential Privacy, *Proceedings of IEEE GLOBECOM*, Singapore, 2017.
- [C1] **Zhikun Zhang**, Heng Zhang, Shibo He, Peng Cheng. Achieving Bilateral Utility Maximization and Location Privacy Preservation in Database-driven Cognitive Radio Networks, *Proceedings of IEEE MASS*, Dallas, USA, 2015.
- [J3] **Zhikun Zhang**, Shibo He, Junshan Zhang, Jiming Chen. REAP: An Efficient Incentive Mechanism for Reconciling Aggregation Accuracy and Individual Privacy in Crowdsensing, *IEEE Transactions on Information Forensics & Security (TIFS)*, accepted.
- [J2] Yuyi Sun, Fei Tong, **Zhikun Zhang**, Shibo He. Throughput Modeling and Analysis of Random Access in Narrow-band Internet of Things, *IEEE Internet of Things Journal*, accepted.
- [J1] **Zhikun Zhang**, Heng Zhang, Shibo He, Peng Cheng. Bilateral Privacy-preserving Utility Maximization Protocol in Database-driven Cognitive Radio Networks, *IEEE Transactions on Dependable and Secure Computing (TDSC)*, accepted.

## Honors & Awards

- 2015.10 **Student Travel Grant**, IEEE MASS.
- 2014.9 **Quantification to defense the Ph.D degree directly without examination**.
- 2013-2014 **National Scholarship for Excellent Student**, Shandong University.

2012-2013 **Scholarship for Excellent Student**, Shandong University.

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## Academic Services

- Reviewer for: IEEE Transactions on Vehicular Technology  
IEEE Communication Letter  
Peer-to-Peer Networking and Applications  
ACM International Symposium on Mobile Ad Hoc Networking and Computing (Mobi-Hoc'17)  
IEEE International Conference on Sensing, Communication and Networking (SECON'17)  
IEEE International Conference on Communications (ICC'15 16 17)  
IEEE Global Communications Conferences (GLOBECOM'15 16)  
IEEE Annual Conference on Decision and Control (CDC'15 16)
- Attendance: IEEE International Conference on Communications in China (ICCC'16), Chengdu, China, Jul. 27-29, 2016  
Chinese Automation Congress (CAC'15), Wuhan, China, Nov. 27-29, 2015  
IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS'15), Dallas, USA, Oct. 19-22, 2015  
ACM International Symposium on Mobile Ad Hoc Networking and Computing (Mobi-Hoc'15), Hangzhou, China, Jun. 22-25, 2015  
China Internet Security Conference (ISC'14), Beijing, China, Sep. 29-30, 2014

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## Skilled Computer Languages

- Programming MATLAB, C, Visual C++, Python  
OS MacOS, Linux, Windows