

# RONGPENG LI

## PERSONAL INFORMATION

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ROLE: Postdoctoral Researcher @ Zhejiang University  
ADDRESS: Room 220, Xindian Building, Yuquan Campus  
Zhejiang University, Hangzhou, 310027, China  
WEBSITE: <http://www.rongpeng.info>  
EMAIL: [lirongpeng@zju.edu.cn](mailto:lirongpeng@zju.edu.cn) or [rongpeng.vip@gmail.com](mailto:rongpeng.vip@gmail.com)

## POSITIONS

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Nov 2016 - Present Postdoctoral Fellow in College of Computer Science & Technologies  
**Zhejiang University**, Hangzhou, China  
AUG 2015 - SEP 2016 Research Engineer in Wireless Communications Technologies Lab  
**Huawei Technologies Co., Ltd.**, Shanghai, China

## EDUCATION

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SEP 2010 - JULY 2015 Ph.D in TELECOMMUNICATIONS AND INFORMATION SYSTEM  
**Zhejiang University**, Hangzhou, China  
AUG 2006 - JUL 2010 Bachelor of Engineering in TELECOMMUNICATION ENGINEERING  
**Xidian University**, Xi'an, China | Outstanding Graduate from Honor Class  
AUG 2003 - JUN 2006 **Hengshui Middle School**, Hebei, China

## PROFESSIONAL EXPERTISE

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Artificial Intelligence, Intelligent Cellular/Wireless Networks, Prediction Analysis and Modeling of Traffic, Network Resource Management

## PUBLICATIONS

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### BOOK CHAPTER

- Rongpeng Li**, Zhifeng Zhao, Chen Qi, and Honggang Zhang, *Characterizing and Learning the Mobile Data Traffic in Cellular Network – 5G Networks: Fundamental Requirements, Enabling Technologies, and Operations Management* (Edited by Anwer Al-Dulaimi, Xianbin Wang, and Chih-Lin I), IEEE and Wiley, 2017, accepted.
- Yun Cui, Zhifeng Zhao, **Rongpeng Li**, Guangchao Zhang, and Honggang Zhang, *Filter Bank Techniques for Multi-Carrier Cognitive Radio Systems – Cognitive Communications – Distributed Artificial Intelligence (DAI), Regulatory Policy & Economics, Implementation* (Edited by David Grace and Honggang Zhang), Wiley Press, ISBN: 9781119951506, August 2012.

### JOURNAL PAPERS

- Rongpeng Li**, Zhifeng Zhao, Jianchao Zheng, Yueming Cai, Chengli Mei and Honggang Zhang, "The Learning and Prediction of Application-level Traffic Data in Cellular

- Networks,” *IEEE Trans. Wirel. Commun.*, vol. 16, no. 6, pp. 3899–3912, Jun. 2017. (Listed among the most frequently downloaded 50 articles in *IEEE Commun. Mag.*, Apr. 2017.)
2. **Rongpeng Li**, Yan Chen, Ye Geoffrey Li, and Guangyi Liu, “Full-Duplex Cellular Networks,” *IEEE Commun. Mag.*, vol. 56, no. 4, pp. 184–191, Apr. 2017. (Listed among the most frequently downloaded twenty articles in *IEEE Commun. Mag.*, Apr. 2017.)
  3. **Rongpeng Li**, Zhifeng Zhao, Xuan Zhou, Guoru Ding, Yan Chen, Zhongyao Wang, and Honggang Zhang, “Intelligent 5G: When Cellular Networks Meet Artificial Intelligence,” *IEEE Wireless Commun.*, vol. 5, no. 24, pp. 175–183, Oct. 2017. (Ranked 4th in the most frequently downloaded articles in *IEEE Wireless Commun.*, Apr. 2017 and continually listed among the most frequently downloaded 50 articles in *IEEE Commun. Mag.*, May 2017 – Nov. 2017.)
  4. **Rongpeng Li**, Zhifeng Zhao, Chen Qi, Xuan Zhou, Yifan Zhou, and Honggang Zhang, “Understanding the Traffic Nature of Mobile Instantaneous Messaging in Cellular Networks: A Revisiting to  $\alpha$ -Stable Models,” *IEEE Access*, vol. 3, pp. 1416–1422, Sep. 2015. (List in the TOP 50 popular articles in *IEEE Access*, Sep. 2015.)
  5. **Rongpeng Li**, Zhifeng Zhao, Xianfu Chen, Jacques Palicot, and Honggang Zhang, “TACT: A Transfer Actor-Critic Learning Framework for Energy Saving in Cellular Radio Access Networks,” *IEEE Trans. Wireless Commun.*, vol. 13, no. 4, pp. 2000–2011, Apr. 2014.
  6. **Rongpeng Li**, Zhifeng Zhao, Xuan Zhou, Jacques Palicot, and Honggang Zhang, “The Prediction Analysis of Cellular Radio Access Networks Traffic: From Entropy Theory to Networking Practice,” *IEEE Commun. Mag.*, vol. 52, no. 6, pp. 238–244, Jun. 2014.
  7. **Rongpeng Li**, Zhifeng Zhao, Yuan Zhang, Jacques Palicot, and Honggang Zhang, “Adaptive Multi-Task Compressive Sensing for Localization in Wireless LANs,” *IET Commun.*, vol. 8, no. 10, pp. 1736 – 1744, Jul. 2014. (Ranked 5th in the most frequently downloaded articles in *IET Commun.*, Sep. 2014.)
  8. **Rongpeng Li**, Zhifeng Zhao, Xuan Zhou, and Honggang Zhang, “Energy Savings Scheme in Radio Access Network via Compressed Sensing Based Traffic Load Prediction,” *Trans. Emerg. Telecommun. Technol. (ETT)*, vol. 25, no. 4, pp. 468–478, Apr. 2014.
  9. Zhifeng Zhao, Feng Hong, and **Rongpeng Li**, “SDN Based VxLAN Optimization in Cloud Computing Networks,” *IEEE Access*, vol. 5, pp. 23312–23319, Oct. 2017. (Corresponding Author)
  10. Zhifeng Zhao, Meng Li, **Rongpeng Li**, and Yifan Zhou, “Temporal-Spatial Distribution Nature of Traffic and Base Stations in Cellular Networks,” *IET Commun.*, vol. 11, no. 16, pp. 2410 – 2416, Nov. 2017. (Corresponding Author)
  11. Jiaqi Li, Zhifeng Zhao, **Rongpeng Li**, “A Machine Learning Based Intrusion Detection System for Software Defined 5G Network”, *IET Net.*, 2017, accepted.
  12. Jiachen Sun, Liang Shen, Guoru Ding, **Rongpeng Li**, and Qihui Wu, “Predictability Analysis of Spectrum State Evolution: Performance Bounds and Real-World Data Analytics,” *IEEE Access*, vol. 5, pp. 22760–22774, 2017.
  13. Yifan Zhou, Zhifeng Zhao, **Rongpeng Li**, Honggang Zhang, and Yves Louet, “Cooperation Based Probabilistic Caching Strategy in Clustered Cellular Networks”, *IEEE Commun. Lett.*, vol. 21, no. 9, pp. 2029–2032, Sep. 2017. (Ranked 9th in the most frequently downloaded articles in *IEEE Commun. Lett.*, Jul. 2017.)
  14. Yuansheng Jin, Xiang-Gen Xia, Yan Chen, and **Rongpeng Li**, “Full Duplex Delay Diversity Relay Transmission Using Bit-Interleaved Coded OFDM”, *IEEE Trans. Commun.*, vol. 65, no. 8, pp. 3250–3258, Aug. 2017.

15. Chao Yuan, Zhifeng Zhao, **Rongpeng Li**, Meng Li, Honggang Zhang, "The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks," *IEEE Access*, vol. 5, no. 1, pp. 3121 - 3130, Mar. 2017.
16. Dingzhu Wen, Guanding Yu, **Rongpeng Li**, Yan Chen, and Ye Geoffrey Li, "Results on Energy- and Spectral- Efficiency Tradeoff in Cellular Networks with Full-Duplex Enabled Base Stations," *IEEE Trans. Wireless Commun.*, vol. 16, no. 3, pp. 1494-1507, Mar. 2017.
17. Xuan Zhou, **Rongpeng Li**, Tao Chen, and Honggang Zhang, "Network Slicing as a Service: Enable Industries Own Software-defined Cellular Networks," *IEEE Commun. Mag.*, vol. 54, no. 7, pp. 146 - 153, Jul. 2016.
18. Jianchao Zheng, Honggang Zhang, Yueming Cai, **Rongpeng Li**, and Alagan Anpalagan, "Game-Theoretic Multi-Channel Multi-Access in Energy Harvesting Wireless Sensor Networks," *IEEE Sensors J.*, vol. 16, no. 11, pp. 4587 - 4594, Apr. 2016.
19. Yifan Zhou, Zhifeng Zhou, Yves Louet, Qianlan Ying, **Rongpeng Li**, Xuan Zhou, Xianfu Chen, Honggang Zhang, "Large-scale Spatial Distribution Identification of Base Stations in Cellular Networks," *IEEE Access*, vol 3, pp. 2987 - 2999, Dec. 2015.
20. Yifan Zhou, **Rongpeng Li**, Zhifeng Zhao, Xuan Zhou, and Honggang Zhang, "On the  $\alpha$ -Stable Distribution of Base Stations in Cellular Networks," *IEEE Commun. Lett.*, vol. 19, no. 10, pp. 1750-1753, Aug. 2015. (Ranked 7th in the most frequently downloaded articles in *IEEE Commun. Lett.*, Oct. 2015.)
21. Guoru Ding, Jinlong Wang, Qihui Wu, Liang Shen, Yu-Dong Yao, **Rongpeng Li**, and Honggang Zhang, "On the Limits of Predictability in Real-World Radio Spectrum State Dynamics: From Entropy Theory to 5G Spectrum Sharing," *IEEE Commun. Mag.*, vol. 53, no. 7, pp. 178-183, Jul. 2015.
22. Jianchao Zheng, Yueming Cai, Xianfu Chen, **Rongpeng Li**, and Honggang Zhang, "Optimal Base Station Sleeping in Green Cellular Networks: A Distributed Cooperative Framework Based on Game Theory," *IEEE Trans. Wireless Commun.*, vol. 14, no. 8, pp. 4391-4406, Aug. 2015.
23. Xuan Zhou, Zhifeng Zhao, **Rongpeng Li**, Yifan Zhou, Tao Chen, Zhisheng Niu, and Honggang Zhang, "Towards 5G: When Explosive Bursts Meet Soft Cloud," *IEEE Netw.*, vol. 28, no. 6, pp. 12-17, Nov. 2014. (Ranked 9th in the most frequently downloaded articles in *IEEE Netw.*, Jan. 2015.)
24. Xuan Zhou, Zhifeng Zhao, **Rongpeng Li**, Yifan Zhou, Jacques Palicot and Honggang Zhang, "Understanding the Nature of Mobile Instant Messaging in Cellular Networks," *IEEE Commun. Lett.*, vol. 18, no. 3, pp. 389 - 392, Mar. 2014. (Ranked 2nd in the most frequently downloaded articles in *IEEE Commun. Lett.*, Feb. 2014. (Early Access Version))
25. Xuan Zhou, Zhifeng Zhao, **Rongpeng Li**, Yifan Zhou, Jacques Palicot and Honggang Zhang, "Human Mobility Patterns in Cellular Networks," *IEEE Commun. Lett.*, vol. 17, no. 10, pp. 1877-1880, Sep. 2013. (Ranked 11th in the most frequently downloaded articles in *IEEE Commun. Lett.*, Nov. 2013.)
26. Xin Tao, Zhifeng Zhao, **Rongpeng Li**, Jacques Palicot and Honggang Zhang, "Downlink Interference Minimization in Cooperative Cognitive LTE-Femtocell Networks," *EURASIP J. Wirel. Commun. Netw. (Special Issue on Cooperative Cognitive Networks)*, vol. 2013, no. 1, p. 194, Jul. 2013.

#### INTERNATIONAL CONFERENCE PAPERS

1. **Rongpeng Li**, Wei Quan, Yan Chen, and Yiqun Wu, "A Tomography of Full-Duplex Cellular Networks," in *IEEE VTC 2017-Spring*, Sydney, Australia, Jun. 2017.
2. **Rongpeng Li**, Yan Chen, and Yiqun Wu, "Binary Power Control for Full-Duplex Networks," in *Proc. IEEE PIMRC 2016*, Valencia, Spain, Sep. 2016.

3. **Rongpeng Li**, Zhifeng Zhao, Xianfu Chen, Yves Louet, and Honggang Zhang, "Intelligent Base Station Management in Greener Traffic-aware Cellular Networks," in *URSI General Assembly and Scientific Symposium (GASS)*, Beijing, China, Aug. 2014.
4. **Rongpeng Li**, Zhifeng Zhao, Xianfu Chen, and Honggang Zhang, "Energy Saving through a Learning Framework in Greener Cellular Radio Access Networks," in *Proc. IEEE Globecom 2012*, Anaheim, California, USA, Dec. 2012.
5. **Rongpeng Li**, Zhifeng Zhao, Yan Wei, Xuan Zhou, and Honggang Zhang, "GM-PAB: A Grid-based Energy Saving Scheme with Predicted Traffic Load Guidance for Cellular Networks," in *Proc. IEEE ICC 2012*, Ottawa, Canada, June 2012.
6. Xing Xu, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "A Resource Scheduling Scheme Based on Utility Function in CoMP Environment," in *Proc. WCSP 2017*, Nanjing, China, Oct. 2017.
7. Xiangjun Meng, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "An Intelligent Honeycomb Architecture Based on Software Defined Security," in *Proc. WCSP 2017*, Nanjing, China, Oct. 2017.
8. Haixia Wang, **Rongpeng Li**, Lu Fan, and Honggang Zhang, "Joint Computation Offloading and Data Caching with Delay Optimization in Mobile-Edge Computing Systems," in *Proc. WCSP 2017*, Nanjing, China, Oct. 2017.
9. Chao Yuan, Zhifeng Zhao, **Rongpeng Li**, Meng Li, and Honggang Zhang, "On the Emerging of Scaling Law, Fractality and Small-World in Cellular Networks," in *Proc. IEEE VTC 2017-Spring*, Sydney, Australia, Jun. 2017.
10. Lu Fan, Zhifeng Zhao, Chen Qi, **Rongpeng Li**, and Honggang Zhang, "A Revisiting to Queueing Theory for Mobile Instant Messaging with Keep-Alive Mechanism in Cellular Networks," in *Proc. IEEE ICC 2017*, Paris, France, May 2017.
11. Dingzhu Wen, Guanding Yu, **Rongpeng Li**, Yan Chen, and Ye Geoffrey Li, "Energy- and Spectral- Efficiency Tradeoff in Full-Duplex Communications," in *Proc. IEEE Globecom 2016 (FD Workshop)*, Washington, USA, Dec. 2016.
12. Chen Qi, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "Characterizing and Modeling Social Mobile Data Traffic in Cellular Networks," in *Proc. IEEE VTC 2016-Spring*, Nanjing, China, May 2016.
13. Xianzhong Sui, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "Energy Efficiency Analysis of Heterogeneous Cellular Networks with Downlink and Uplink Decoupling," in *Proc. IEEE Globecom 2015*, San Diego, CA, USA, Dec. 2015.
14. Jianchao Zheng, Yueming Cai, Xianfu Chen, **Rongpeng Li**, and Honggang Zhang, "A game-theoretic approach for optimal base station sleeping in green cellular networks," in *Proc. WCSP 2014*, Hefei, China, Oct. 2014.
15. Qianlan Ying, Zhifeng Zhao, Yifan Zhou, **Rongpeng Li**, Xuan Zhou and Honggang Zhang, "Characterizing Spatial Patterns of Base Stations in Cellular Networks," in *Proc. IEEE ICC, Shanghai, China, Oct. 2014*.
16. Gang Wang, Zhifeng Zhao, Jialiang Peng, **Rongpeng Li**, and Honggang Zhang, "An Approximate Algorithm of Configuring Controllers in Multi-domain SDN Architecture," in *Proc. Chinacom 2014*, Maoming, China, Aug. 2014.
17. Yifan Zhou, Zhifeng Zhao, Qianlan Ying, **Rongpeng Li**, Xuan Zhou, and Honggang Zhang, "Two-tier Spatial Modeling of Base Stations in Cellular Networks," in *Proc. IEEE PIMRC 2014*, Washington, DC, USA, Sep. 2014.
18. Xuan Zhou, Zhifeng Zhao, **Rongpeng Li**, Yifan Zhou, and Honggang Zhang, "Service-oriented cross-layer management for software-defined cellular networks," in *Proc. IEEE*

PIMRC 2014, Washington, DC, USA, Sep. 2014.

19. Jianxiong Jin, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "Compressive Sensing Based Overhead Reduction Scheme in Multi-antenna Downlink Management," in *Proc. WCSP 2013 2014*, Hangzhou, China, Oct. 2013.
20. Xin Tao, Zhifeng Zhao, **Rongpeng Li**, Jacques Palicot and Honggang Zhang, "Downlink Interference Minimization in Cognitive LTE-Femtocell Networks," in *Proc. IEEE ICC 2013*, Xi'an, China, Aug. 2013.
21. Xuan Zhou, Zhifeng Zhao, **Rongpeng Li**, Yifan Zhou, and Honggang Zhang, "The Predictability of Cellular Networks Traffic," in *Proc. IEEE ISCIT 2012*, Gold Coast, Australia, Oct. 2012.
22. Qian Wen, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "Spatial-Temporal Compressed Sensing Based Traffic Prediction in Cellular Networks," in *Proc. IEEE ICC 2012 (SGCNet Workshop)*, Beijing, China, Aug. 2012, *invited paper*.

#### PAPERS IN SUBMISSION

1. **Rongpeng Li**, Zhifeng Zhao, Yi Zhong, Chen Qi, and Honggang Zhang, "The Stochastic Geometry Analyses of Cellular Networks with  $\alpha$ -Stable Self-Similarity", *IEEE Trans. Wireless Commun.*, 2017.
2. **Rongpeng Li**, Zhifeng Zhao, Chenyang Yang, Chunming Wu, and Honggang Zhang, "Big Data in Cellular Networks: The Cornerstone of Smart Cities", *IET Commun.*, 2017.
3. Chao Yuan, Zhifeng Zhao, **Rongpeng Li**, and Honggang Zhang, "Analysis on Influential Nodes in Complex Wireless Networks Based on Genetic Algorithm". *IEEE Commun. Lett.*, 2017.

## PROJECT EXPERIENCE

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JAN. 2018 - DEC. 2022 WIRELESS EDGE RESOURCE UTILIZATION THEORY BASED ON USER BEHAVIOR PREDICTION

*National Natural Science Foundation of China (NSFC) Project  
(No. 61731002, Jan. 2018 - Dec. 2022)*

Sponsor: Natural Science Foundation of China (NSFC)

Keywords: Mobile access, predictive communications, user behavior, resource utilization efficiency, online learning

JAN. 2018 - DEC. 2020 THE STUDY OF SERVICE-ORIENTED SOFTWARE-DEFINED CELLULAR NETWORKS

*National Natural Science Foundation of China (NSFC) Project  
(No. 61701439, Jan. 2018 - Dec. 2020)*

Principal Investigator

Sponsor: Natural Science Foundation of China (NSFC)

Keywords: Software-Defined Cellular Networks, Intelligence Service-Oriented, Learning, Resource Management

OCT. 2016 - OCT. 2018 RESEARCH ON WIRELESS BIG DATA AIDED INTELLIGENT SOFTWARE-DEFINED CELLULAR NETWORKS

*National Postdoctoral Program for Innovative Talents of China  
(No. BX201600133)*

Principal Investigator

Sponsor: China Postdoctoral Science Foundation

Keywords: Wireless Big Data, Intelligence Software-Defined Networks (SDN), Cellular Networks

- MAY 2017 - OCT. 2018 THE APPLICATION STUDY OF WIRELESS BIG DATA ON INTELLIGENT NETWORK MANAGEMENT  
*First-Class Project funded by China Postdoctoral Science Foundation (No. 2017M610369)*  
 Principal Investigator  
 Sponsor: China Postdoctoral Science Foundation  
 Keywords: Wireless Big Data, Intelligence  
 Software-Defined Networks (SDN), Cellular Networks
- AUG. 2015 - SEP. 2016 FULL DUPLEX CELLULAR SYSTEM AND NETWORKING  
*Corporate-inside Project*  
 Sponsor: Huawei Technologies Co., Ltd  
 Keywords: Full Duplex, Cellular Networks,  
 Interference Mitigation, Calculation, & Cancellation, User Pairing
- JAN. 2012 - JULY 2015 FUNDAMENTAL RESEARCH OVER ENERGY AND RESOURCE OPTIMIZED HYPER-CELLULAR COMMUNICATIONS SYSTEM  
*National Basic Research Program (973 Program) of China (No. 2012CB316000, Green Communications, Jan. 2012 - Dec. 2016)*  
 Sponsor: Ministry of Science and Technology of China  
 Keywords: Hyper-Cellular Architecture, Green Radio Access Networks,  
 Green Communications, Energy Saving and Energy Harvesting,  
 Analysis of Mobile User Behavior
- JAN. 2011 - DEC. 2013 DESIGN AND OPTIMIZATION OF WIRELESS COGNITIVE MESH NETWORKS (COGMESH) WITH ADAPTION TO NETWORKS HETEROGENEITY AND INTEGRATION  
*National Natural Science Foundation of China (NSFC) Project (No. 61071130, Jan. 2011 - Dec. 2013)*  
 Sponsor: Natural Science Foundation of China (NSFC)  
 Keywords: Cognitive Radio, Cognitive Mesh Networks, Cognitive Cluster,  
 Power Allocation, Machine Learning, Dynamic Spectrum Access

## ACADEMIC ACTIVITIES

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- Editor for
  - China Communications
- TPC member for
  - IEEE Globecom 2017, IEEE PIMRC 2014-2017, Chinacom 2014
- Reviewer for
  - IEEE Journal on Selected Areas in Communications, IEEE Transactions on Wireless Communications, IEEE Communications Magazine, IEEE Transactions on Vehicle Technology, IEEE Internet of Things Journal, IET Communications, Eurasip Journal on Wireless Communications & Networking, Transactions on Emerging Telecommunications Technologies, China Communications
  - IEEE ICC 2012-2014, IEEE WCNC 2013-2014, IEEE PIMRC 2014, ISWCS 2014, IEEE VTC 2012-Spring/2014-Fall, IEEE GreenCom 2013, IEEE ISCIT 2011, WCSP 2013, ChinaCom 2014
- Intern Researcher, China Mobile Research Institute, Beijing, China (May – September, 2014).
- Visiting Doctoral Student, Supélec, Rennes, France (September – December, 2013).

- Teaching Assistant, Course “Software-Defined Radio”, Zhejiang University (September, 2011 - January, 2012).
- Web Design Chair of IEEE ONLINEGREENCOMM 2015 (<http://www.ieee-onlinegreencomm.org/>).
- Web & System Chair of IEEE ISCIT 2011 (<http://www.iscit2011.org>).
- Coordinator of YORK-ZHEJIANG SUMMER SCHOOL ON COGNITIVE COMMUNICATIONS (<http://www.summerschool2010.org/>).

## AWARDS

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- OCT. 2017 **Best Paper Award**, The Ninth International Conference on Wireless Communications and Signal Processing (WCSP 2017).
- JUN. 2015 **Outstanding Graduate**, Zhejiang University.
- DEC. 2014 **ISEE Excellent Student Scholarship**, Zhejiang University.  
*In recognition of the outstanding performance through the graduate period.*
- DEC. 2014 **National Scholarship for PhD Students** [No. 2014-07625].
- DEC. 2014 Outstanding Graduate Leader Award, Zhejiang University.
- DEC. 2013 Award of Honor for Graduate, Zhejiang University.
- DEC. 2013 Graduate of Merit/Triple A Graduate, Zhejiang University.
- DEC. 2012 First Class Award of Honor for Graduate, Zhejiang University.
- DEC. 2011 Second Class Award of Honor for Graduate, Zhejiang University.
- JUN. 2010 **Outstanding Graduate**, Xidian University.  
*For having been in the top 4% in the undergraduate life of Xidian University.*
- NOV. 2007 **National Scholarship** [No. 2007-18626].  
*The highest scholarship throughout China.*  
*For having ranked second in the class in 2006-2007.*
- NOV. 2008 **National Scholarship for Encouragement**.  
*For having ranked in the top 5% in the class in 2007-2008.*
- JUN. 2007 First Class Scholarship, Xidian University.
- NOV. 2007 First Class Scholarship, Xidian University.
- JUN. 2007 Dux of Freshman, Xidian University.
- MAY 2007 Third Prize, National English Contest for College Students.
- DEC. 2008 Second Prize, “Spark Cup” Innovation Contest, Xidian University.

## SKILLS

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Proficient: C/C++, MATLAB,  $\text{\LaTeX}$ , SQL, Python.  
Intermediate: Java, NS-3.

Last Updated Time: December 17, 2017. ■