

# Zhiyuan Wang

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Phone: (852) 6557-4107  
WeChat: seuwangzhiyuan

wangzyin2019@hotmail.com  
<https://wang-zhi-yuan.github.io>

## Professional Experience

- **Post-Doctoral Fellow** *Oct. 2019 - Present*
  - Computer Science & Engineering, The Chinese University of Hong Kong
  - Advisor: John C.S. Lui (ACM Fellow, IEEE Fellow)

## Education Experience

- **The Chinese University of Hong Kong**, Hong Kong *Aug. 2016 - Sept. 2019*
  - Ph.D., Information Engineering (Graduate advance)
  - Advisor: Jianwei Huang (IEEE Fellow)
- **Southeast University**, Nanjing *Aug. 2012 - June 2016*
  - B.E., Information Engineering (GPA:3.9/4.0, Ranking: 1/243)
  - Excellent Graduate Student Award

## Research Interests

- **Research Field & Applications**
  - Mobile computing, edge computing
  - Network economics, Crowd-learning, Internet of Things (IoT)
- **Major Methodologies**
  - On-line optimization and bandit learning
  - Stochastic modeling, Mean field analysis
  - Game theory, Contract theory, Incentive mechanism design

## Awards & Honors

- Best In-Session Presentation Award, IEEE INFOCOM, 2019
- Student Travel Grant
  - ACM MobiHoc 2018, IEEE WiOpt 2018
- Best Student Presentation Award NCEL Spring Workshop, 2018, 2019
- **Hong Kong PhD Fellowship** 08/2016 - 09/2019
  - One of the 231 awardees in 2016/17
- **National Scholarship** China, 2013 - 2014
- **Baosteel Fellowship** Baosteel, 12/2015
  - One of the 25 award winners in mainland China (only 5 undergraduates)
- **Person of the Year Finalist** in Jiangsu Province China, 5/2016
- The Most Influential Graduate Student Award Southeast University, 6/2016
- Excellent Graduate Student Award Southeast University, 6/2016
- Excellent Academic Performance Award 2012-2013 & 2013-2014
  - GPA Top 3%, 6 out of 243.

- Meritorious Winner of the Interdisciplinary Contest in Modeling (ICM)

COMAP, 4/2014

## Publications

### • Conference Papers

- [C1] **Z. Wang**, L. Gao, and J. Huang, "Travel with Your Mobile Data Plan: A Location-Flexible Data Service", *IEEE International Conference on Computer Communications (INFOCOM)*, Beijing, China, April 27-30, 2020 (acceptance rate 19.8%, **CCF A**)
- [C2] **Z. Wang**, L. Gao, J. Huang, and B. Shou "Economic Viability of Data Trading with Rollover," *IEEE International Conference on Computer Communications (INFOCOM)*, Paris, France, 29 April - 2 May, 2019 (acceptance rate 19.7%, **CCF A**)
- [C3] **Z. Wang**, L. Gao, and J. Huang, "Multi-Dimensional Contract Design for Mobile Data Plan with Time Flexibility," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Los Angeles, CA, USA, June 26-29, 2018 (acceptance rate 16.9%, **CCF B**)
- [C4] **Z. Wang**, L. Gao, and J. Huang, "Pricing Competition of Rollover Data Plan," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Shanghai, China, May 7-11, 2018.
- [C5] **Z. Wang**, L. Gao, and J. Huang, "A Contract-Theoretic Design of Mobile Data Plan with Time Flexibility," *ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon)* (in conjunction with ACM EC), MIT, Cambridge, MA, USA, June 27, 2017.
- [C6] **Z. Wang**, L. Gao, and J. Huang, "Pricing Optimization of Rollover Data Plan," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Paris, France, May 15-19, 2017.

### • Journal Papers

- [J1] **Z. Wang**, L. Gao, J. Huang, and B. Shou, "Towards Flexible Wireless Data Services," to appear in *IEEE Communication Magazine*, 2019 (**IF: 10.356**).
- [J2] **Z. Wang**, L. Gao, and J. Huang, "Multi-Cap Optimization for Wireless Data Plans with Time Flexibility," *IEEE Transactions on Mobile Computing (TMC)*, May, 2019. (**IF: 4.098, CCF A**)
- [J3] **Z. Wang**, L. Gao, and J. Huang, "Duopoly Competition for Mobile Data Plans with Time Flexibility," *IEEE Transactions on Mobile Computing (TMC)*, March, 2019. (**IF: 4.098, CCF A**)
- [J4] **Z. Wang**, L. Gao, and J. Huang, "Exploring Time Flexibility in Wireless Data Plans," *IEEE Transactions on Mobile Computing (TMC)*, September, 2018. (**IF: 4.098, CCF A**)

### • Submitted & Working Papers

- [S1] **Z. Wang**, L. Gao, T. Wang, and J. Luo, "Monetizing Edge Computing Service in Mobile Internet Ecosystem", *IEEE Transactions on Mobile Computing (TMC)*, under review.
- [S2] **Z. Wang**, L. Gao, J. Huang, and B. Shou, "Rolling and Trading: Use Flexible Mobile Data Services to Tackle Demand Uncertainty," to be submitted to *Management Science*.

## Professional Activities

### • Technical Program Committee (TPC) Members

- IEEE International Conference on Communications (ICC), Mobile and Wireless Networks Symposium, June 2020
- International Conference on Computer Communications and Networks (ICCCN), Cognitive, Ad Hoc, Mobile, and Mesh Networks track, August 2020.

- **Technical Review**

- IEEE Journal on Selected Areas in Communications (JSAC)
- IEEE Transactions on Mobile Computing (TMC)
- IEEE Transactions on Cognitive Communications and Networking (TCCN)
- IEEE Communications Letters
- IEEE International Conference on Computer Communications (INFOCOM)
- IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)
- IEEE International Conference on Communications (ICC)
- IEEE Wireless Communications and Networking Conference (WCNC)