

ZHIXUAN FANG

FIT 4-609, Tsinghua University, Beijing, China
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EDUCATION

- PhD student, Tsinghua University** Sept 2013 - July 2018 (expected)
In Institute for Interdisciplinary Information Sciences (IIIS), Tsinghua University, China.
Thesis: Strategies and Optimization in the Sharing Economy
Advisors: Prof. Andrew Chi-Chih Yao and Prof. Longbo Huang
- Visiting PhD student, University of California, Berkeley** Aug 2016 - Dec 2016
Hosted by Prof. Jean Walrand at EECS.
- B.S. degree, Peking University** Sept 2009 - July 2013
School of Physics, Peking University, China.

RESEARCH INTERESTS

I focus on modeling and analysis of network economics, in particular, problems related to pricing, competition, matching and resource allocation in the platform-based sharing economy, using game theory, optimization and learning techniques. My broader research goal is to analyze and optimize social systems consist of interest-driven agents, through the lens of social welfare, revenue, quality of service, etc. I am most excited about research that both provides deep insights to reality and constructs practical algorithmic solutions with performance guarantees.

SELECTED HONORS

Tsinghua University scholarship (top 5% in Tsinghua University), 2017
Top 5% teaching assistant recognition of Tsinghua University, 2015
Distinguished graduate of Peking University, 2013
Outstanding student of Beijing city (top 1% in Peking University), 2013
Xianzi Zeng scholarship, 2010-2013
First prize of Chinese Physics Olympiad (Guangdong Province Division), 2008
Second prize of National Olympiad in Informatics in Provinces (NOIP), China, 2008

PUBLICATIONS

1. **Zhixuan Fang**, Longbo Huang and Adam Wierman. “Loyalty Programs in the Sharing Economy: Optimality and Competition.” Proceedings of the 19th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2018.
2. Ling Pan, Qingpeng Cai, **Zhixuan Fang**, Pingzhong Tang and Longbo Huang. “Rebalancing Dockless Bike Sharing Systems.” Submitted.
3. **Zhixuan Fang**, Longbo Huang and Adam Wierman. “Prices and Subsidies in the Sharing Economy.” Proceedings of the International Conference on World Wide Web (WWW), 2017.
4. **Zhixuan Fang** and Longbo Huang. “Market Share Analysis with Brand Effect.” Proceedings of IEEE Conference on Decision and Control (CDC), 2016.
5. **Zhixuan Fang** and Longbo Huang. “Market Share Analysis with Brand Effect.” Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS)(Extended abstract), 2016.

INVITED TALKS

Prices and Subsidies in the Sharing Economy

BASICS Symposium 2018, Shanghai, China.

Jan 2018

WWW 2017, Perth, Australia.

Apr 2017

SNC seminar, Tsinghua University, Beijing, China.

Jan 2017

Market Share Analysis with Brand Effect

Tsinghua-Princeton AI+FinTech workshop 2016, Beijing, China.

Dec 2016

IEEE CDC 2016, Las Vegas, USA.

Dec 2016

Applications and Prospects of Quantum Information

Baidu-Intel workshop on future hardware technology, Beijing, China.

Dec 2015

INTERNSHIP AND ACADEMIC ACTIVITIES

Intern, Baidu

Jul 2014 - Sept 2014

Baidu, Beijing, China. Work on Deep Convolutional Neural Network (CNN) on FPGA.

Computational and Cognitive Neuroscience (CCN) Summer School.

Jul 2016

NYU-Shanghai, Shanghai, China.