

Fengli Xu

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Research Interests

Human Behavior Modelling, Data Privacy, Spatiotemporal Data Mining, Ubiquitous Computing.

Education

Tsinghua University, Beijing, China, 2015 – 2020 (expected).

Ph.D. Candidate in Department of Electronic Engineering

Advisor: Prof. Yong Li

Huazhong University of Science and Technology, Wuhan, China, 2011 – 2015.

B.S. in Department of Electronic Engineering

Outstanding Graduate of Huazhong University of Science and Technology

Research Experience

Tsinghua University, Beijing, China
Research Assistant, FIB Lab, 2015.08 – present.

Tencent Inc., Beijing, China
Research Scientist Intern, Data Analytics Team, 2016.12 – 2017.5.

Georg-August-University of Goettingen, Germany
Visiting Researcher, Computer Networks Research Group, 2016.6 – 2016.9.

Honors and Awards

MSRA Fellowship	2018
Outstanding Oral Presentation Award in Tsinghua PhD Forum	2017
ACM UBICOMP Honorable Mention Award	2016
National Graduate Student Scholarship of China	2016
Outstanding Graduate of Huazhong University of Science and Technology	2015
National Undergraduate Student Scholarship of China	2014

Publications

1. **Fengli Xu**, Jie Feng, Pengyu Zhang, Yong Li. Context-aware Real-time Population Estimation for Metropolis. In *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UBICOMP)*, 2016. (**CCF A, honorable mention award, full paper**)
2. **Fengli Xu**, Zhen Tu, Yong Li, Pengyu Zhang, Xiaoming Fu, Depeng Jin. Trajectory Recovery From Ash: User Privacy Is NOT Preserved in Aggregated Mobility Data. In *International Conference on World Wide Web (WWW)*, 2017. (**CCF A, full paper**)
3. **Fengli Xu**, Tong Xia, Hancheng Cao, Yong Li, Funing Sun, Fanchao Meng. Detecting Popular Temporal Modes in Population-scale Unlabelled Trajectory Data. To appear in *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UBICOMP)*, 2018. (**CCF A, full paper**)
4. **Fengli Xu**, Guozhen Zhang, Jiabin Huang, Yong Li, Diyi Yang, Ben Y. Zhao, Fanchao Meng. Understanding Motivations behind Inaccurate Check-ins. To appear in *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2018. (**CCF A, full paper**)
5. **Fengli Xu**, Yong Li, Huandong Wang, Pengyu Zhang, Depeng Jin. Understanding Mobile Traffic Patterns of Large Scale Cellular Towers in Urban Environment. *IEEE/ACM Transactions on Networking (TON)*, 2017, 25 (2), 1147-1161. (**CCF A, Impact Factor = 3.376**)
6. **Fengli Xu**, Yong Li, Min Chen, Shen Chen. Mobile Cellular Big Data: Link Cyberspace and Physical World with Social Ecology. *IEEE Network*, 2016,30(3):6-12. (Impact Factor = 7.197)
7. **Fengli Xu**, Yujun Lin, Jiabin Huang, Di Wu, Hongzhi Shi, Jeungeun Song, Yong Li. Big Data Driven Mobile Traffic Understanding and Forecasting: A Time Series Approach. *IEEE Transaction on Service Computing (TSC)*, 2016, 9(5):796-805. (**CCF B, Impact Factor = 3.520**)
8. Zhen Tu, **Fengli Xu**, Yong Li, Pengyu Zhang, Depeng Jin. A New Privacy Breach: User Trajectory Recovery From Aggregated Mobility Data. *IEEE/ACM Transactions on Networking (TON)*, 2018, 26(3):1446-1459. (**CCF A, Impact Factor = 3.376**)
9. Donghan Yu, Yong Li, **Fengli Xu**, Pengyu Zhang, Vassilis Kostakos. Smartphone App Usage Prediction Using Points of Interest. To appear in *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UBICOMP)*, 2018. (**CCF A, full paper**)
10. Yong Li, **Fengli Xu**. Trace-driven analysis for location-dependent pricing in mobile cellular networks. *IEEE Network*, 2016, 30(2):40-45. (Impact Factor = 7.197)
11. Huandong Wang, **Fengli Xu**, Yong Li, Pengyu Zhang, Depeng Jin. Understanding mobile traffic patterns of large scale cellular towers in urban environment. In *ACM Internet Measurement Conference (IMC)*, 2015. (**CCF B, full paper**)
12. Zhen Tu, Kai Zhao, **Fengli Xu**, Yong Li, Li Su, Depeng Jin. Beyond k-anonymity: protect your trajectory from semantic attack. In *IEEE International Conference on Sensing, Communication, and Networking (SECON)*, 2017. (**CCF B, full paper**)
13. Jiabin Huang, **Fengli Xu**, Yujun Lin, Yong Li. On the Understanding of Interdependency of Mobile App Usage. In *IEEE International Conference on Mobile Ad Hoc and Sensor Systems (MASS)*, 2017. (**full paper**)
14. Mingyang Zhang, **Fengli Xu**, Yong Li. Mobile Traffic Data Decomposition for Understanding Human Urban Activities. In *IEEE International Conference on Mobile Ad Hoc and Sensor Systems (MASS)*, 2016. (**full paper**)

15. Hancheng Cao, **Fengli Xu**, Jane Sankaranarayanan, Yong Li, Hamen Samet. Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. Under major revision in *IEEE Transactions on Mobile Computing (TMC)*. (**CCF A**, Impact Factor = 4.098)
16. Jiaxin Huang, **Fengli Xu**, Yujun Lin, Yong Li. Modeling the Interdependency of Mobile App Usage. Under major revision in *IEEE Transactions on Mobile Computing (TMC)*. (**CCF A**, Impact Factor = 4.098)

Professional Service

Journal Reviewing:

IEEE Transactions on Network and Service Management, 2018.

IEEE Transactions on Mobile Computing, 2017.

IEEE Communications Magazine, 2017.

IEEE Transactions on Services Computing, 2017.

Conference External Reviewing:

International Joint Conference on Pervasive and Ubiquitous Computing(UBICOMP), 2017, 2018.

International World Wide Web Conference(WWW), 2016, 2017.

International AAAI Conference on Web and Social Media(ICWSM), 2017.

IEEE International Conference on Computer Communications(INFOCOM), 2017.

ACM Internet Measurement Conference(IMC), 2016, 2017, 2018.