

Fengli Xu

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Research Interests

Human Behavior Modelling, Data Privacy, 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, with **Prof. Yong Li** in *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, with **Prof. Xiaoming Fu** in *Computer Networks Research Group*, 2016.6 – 2016.9.

Mircrosoft Research Asia, China

Research Intern, with **Prof. Xing Xie** in *Social Computing Group*, 2018.10 – 2019.1.

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**, Zhen Tu, Hongjia Huang, Shuhao Chang, Funing Sun, Diansheng Guo, Yong Li. No More than What I Post: Preventing Linkage Attacks on Check-in Services. In *The Web Conference (WWW)*, 2019. (**CCF A**)
2. Tong Xia, Yue Yu, **Fengli Xu**, Funing Sun, Diansheng Guo, Depeng Jin, Yong Li. Understanding Urban Dynamics via State-sharing Hidden Markov Model. In *The Web Conference (WWW)*, 2019. (**CCF A**)
3. Hancheng Cao, **Fengli Xu**, Jane Sankaranarayanan, Yong Li, Hamen Samet. Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. *IEEE Transactions on Mobile Computing (TMC)*, to appear in 2019. (**CCF A**, Impact Factor = 4.098)
4. Hancheng Cao, Zhilong Chen, **Fengli Xu**, Yong Li, Vassilis Kostakos. Revisitation in Urban Space vs. Online: A Comparison across POIs, Websites, and Smartphone Apps. In *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UBICOMP)*, 2019. (**CCF A**, full paper)
5. **Fengli Xu**, Tong Xia, Hancheng Cao, Yong Li, Funing Sun, Fanchao Meng. Detecting Popular Temporal Modes in Population-scale Unlabelled Trajectory Data. In *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UBICOMP)*, 2018. (**CCF A**, full paper)
6. **Fengli Xu**, Guozhen Zhang, Jiaxin Huang, Yong Li, Diyi Yang, Ben Y. Zhao, Fanchao Meng. Understanding Motivations behind Inaccurate Check-ins. In *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2018. (**CCF A**, full paper)
7. 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)
8. Jie Feng, Yong Li, **Fengli Xu**, Depeng Jin. A Bimodal Model to Estimate Dynamic Metropolitan Population by Mobile Phone Data. *Sensors*, 2018, 18(10), 3431. (Impact Factor = 2.475)
9. Donghan Yu, Yong Li, **Fengli Xu**, Pengyu Zhang, Vassilis Kostakos. Smartphone App Usage Prediction Using Points of Interest. In *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UBICOMP)*, 2018. (**CCF A**, full paper)
10. **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)
11. **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)
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. Jiaxin 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. **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)

15. **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)
16. **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)
17. 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**)
18. 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)
19. 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**)
20. Jiabin 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:

ACM SIGKDD Conference on Knowledge Discovery and Data Mining(SIGKDD), 2019.
International Joint Conference on Pervasive and Ubiquitous Computing(UBICOMP), 2017, 2018.
International World Wide Web Conference(WWW), 2017, 2018.
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.