

# Jie Feng

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## RESEARCH INTERESTS

My research area is in human mobility modelling, urban computing, cross-domain data fusion, and deep learning. I am currently working on individual mobility modeling and citywide population estimation. You can find my current research interests from my homepage and google scholar.

## EDUCATION

**Tsinghua University**, Beijing, China

- Ph.D. Student in Department of Electronic Engineering Aug 2016 – Present
- Adviser: **Prof. Yong Li**
- Research: Urban Computing, Mobile Big Data, Data Mining, Deep Learning.

**Tsinghua University**, Beijing, China

- B.S. in Department of Electronic Engineering Aug 2012 – Jul 2016

## RESEARCH EXPERIENCE

**Data Science & Intelligence Lab**, E.E. Tsinghua University, Beijing

- Ph.D. Student Aug 2016 – Present
  - Supervisors: **Prof. Yong Li**
  - Research: Urban Computing, Mobile Big Data, Data Mining, Deep Learning.

**City Brain Team**, Tianrang Intelligence, Hangzhou

- Research Internship Sep 2018 – Jan 2019
  - Supervisors: **Prof. Zhenhui(Jessie) Li**
  - Research: Intelligent Traffic Signal Control

**Mobile Data Analytics Team**, Tencent Inc., Beijing

- Research Internship Dec 2016 – Jul 2018
  - Supervisors: Dr. Ang Guo
  - Research: Mobility Modeling

**Big Data Group**, Beijing Research Institute, China Telecom

- Research Internship Jul 2016 – Oct 2016
  - Supervisors: Dr. Jingbo Sun
  - Research: Data Fusion, Urban Sensing

**Broadband Wireless Communications Lab**, E.E. Tsinghua University

- SRT Student Aug 2014 – May 2015
  - Supervisors: Prof. Linglong Dai
  - Research: 5G communication, Massive MIMO

## PUBLICATIONS

- [1] **Jie Feng**, Mingyang Zhang, Huandong Wang, Zeyu Yang, Chao Zhang, Yong Li, Depeng Jin. “DPLink: User Identity Linkage via Deep Neural Network From Heterogeneous Mobility Data” in *The Web Conference (WWW)*, May 2019. (CCF A, full paper)
- [2] Ziqian Lin\*, **Jie Feng\***, Ziyang Lu, Yong Li, Depeng Jin. (\*equal contribution) “DeepSTN+: Context-aware Spatial-Temporal Neural Network for Crowd Flow Prediction in Metropolis” in *The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, Feb 2019. (CCF A, full paper)
- [3] Zefang Zong\*, **Jie Feng\***, Kechun Liu, Hongzhi Shi, Yong Li. (\*equal contribution) “DeepDPM: Dynamic Population Mapping via Deep Neural Network” in *The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, Feb 2019. (CCF A, full paper)
- [4] **Jie Feng**, Yong Li, Chao Zhang, Funing Sun, Fanchao Meng, Ang Guo, Depeng Jin. “DeepMove: Predicting Human Mobility with Attentional Recurrent Networks” in *The Web Conference (WWW)*, May 2018. (CCF A, full paper)
- [5] **Jie Feng**, Xinlei Chen, Rundong Gao, Ming Zeng, Yong Li. “DeepTP: An End-to-End Neural Network for Mobile Cellular Traffic Prediction” in *IEEE Network*, 32 (6), 108-115, Nov 2018. (IF=7.197)

- [6] **Jie Feng**, Yong Li, Fengli Xu, Depeng Jin. “A Bimodal Model to Estimate Dynamic Metropolitan Population by Mobile Phone Data” in *Sensors*, 18 (10), 3431, Nov 2018. (IF=2.475)
- [7] Hancheng Cao, **Jie Feng**, Yong Li, Vassilis Kostakos. “Uniqueness in the City: Urban Morphology and Location Privacy” in *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*, Oct 2018. (CCF A, full paper)
- [8] 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)*, Oct 2016. (CCF A, full paper, honorable mention award)

**AWARDS & SCHOLARSHIPS**

- National Graduate Student Scholarship of China 2018  
For the research achievement before the comprehensive exam
- ACM UbiComp Honorable Mention Award 2016  
For the paper “Context-aware Real-time Population Estimation for Metropolis”
- National Undergraduate Innovation and Entrepreneurship Training Program, Tsinghua University 2015  
As the team leader of a Massive MIMO related project.
- Technical Innovation Student Scholarship, Tsinghua University 2015
- The First Prize for Annual Student Research Training Project (SRT), Tsinghua University 2014

**PROFESSIONAL SERVICE**

**JOURNAL REVIEWING**

- IEEE Transactions on Knowledge and Data Engineering 2018, 2019
- IEEE Transactions on Cognitive Communications and Networking 2019
- IEEE Transactions on Network and Service Management 2018

**CONFERENCE REVIEWING**

- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2019
- The Web Conference (WWW) 2016, 2018
- International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) 2017, 2018
- IEEE International Conference on Computer Communications (INFOCOM) 2017, 2018

**TEACHING**

**TA**

- Advanced Computer Network Experiments 2017, 2018, 2019
- Big Data and Machine Intelligence 2017

[CV compiled on 2019-06-25]