

YANTING ZHANG

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Beijing University of Posts and Telecommunications, Beijing, China

EDUCATION

Ph.D. Candidate	Beijing Laboratory of Advanced Information Networks (GPA: 83.4/100, Rank: 2/49) Beijing University of Posts and Telecommunications	Sep.2016-Present
B.Eng.	Digital Media Technology Beijing University of Posts and Telecommunications	(GPA: 88.7/100, Rank: 5/32) Sep.2011-Jul.2015

FIELD of INTERESTS

- ✧ Big data analytics
- ✧ Human behavior learning
- ✧ Urban computing

RESEARCH EXPERIENCES & PROJECTS

An Analysis on Overlap and Mutual Enlargement of Online and Offline Social Networks

Natural Science Foundation of China (No.NSFC-61671078) Sep.2016-Present

- Researched for the establishment of the project.
- Studied the offline mobility pattern, online shopping interests, and correlation between online and offline social networks based on large scale mobile data.
- Published 3 papers in journals and conferences.

Research on Network Computing Model of Urban Functional Area and Its Evolution

National Science Foundation of China (No.NSFC-61701031) May.2017-Present

- Explored city structure and urban functional composition from mobile big data.
- 2 papers have been submitted under review.

Short Visit Program to Tohoku University (Sendai, Japan)

Jul.2017-Aug.2017

- Attended advanced lectures. Learned deep learning methods.
- Implemented academic sharing and communicated with other students.

ICT International PBL Project: Robotics

Aug.2016-Dec.2016

- Collaborated with a team of four to control the robot. Achieved the best performance prize in competitive performance evaluation during the workshop.
- Defined 4 different kinds of operations to realize basic movement. Designed vision system by recognizing colors using Open CV. Solved challenges like the influence of dark light.

Application, Design and Innovation of Mobile-Terminal

Jul.2016-Oct.2016

- Led a team of four to produce a location-based application called Digger, which is used to accomplish tasks published by other users, aiming at sharing human resource.
- Designed 15 front-end pages including kinds of interactions.

Mobility Analysis and Prediction Based on Points of Interests

Mar.2015-Jun.2015

- Extracted points of interests by applying various clustering methods.
- Discovered mobility patterns from massive data based on points of interests, using Latent Dirichlet Allocation model.

Network Traffic Monitoring and Visualization

Mar.2015-Jun.2015

- Monitored the network traffic generated by 60+ students in laboratory.

- Designed whole visualization system to achieve an intuitive grasp of the using condition of traffic flow.

PUBLICATIONS

SCI-Indexed Journal Publications:

1. Yuanyuan Qiao, Zhongwei Si, **Yanting Zhang**, Fehmi Ben Abdesslem, Xinyu Zhang, Jie Yang, A Hybrid Markov-based Model for Human Mobility Prediction, Neurocomputing (2017), doi: 10.1016/j.neucom.2017.05.101. (First student author.)

Conference Proceedings:

2. **Yanting Zhang**, Yuanyuan Qiao, Junhua He, Shuangshuang Han, Jie Yang. Discovering Online Shopping Preferences in Different Urban Area from the View of Mobile Traffic Patterns[C]//Workshop co-located with IJCAI 2017.
3. Yuanyuan Qiao, **Yanting Zhang**, Lindgren Anders, Jie Yang. Understanding Online Shopping and Offline Mobility Behavior in Urban Area from the View of Multilayer Network[C]//5th International Conference on Network Infrastructure and Digital Content (IC-NIDC 2016). (First student author.) **Best paper award.**
4. **Yanting zhang**, Yi Zhang, Yuanquan Qiao, Wenhui Lin, Jie Yang. From Commuting to Spatial Structure of Cities: Analysis Based on Mobile Big Data. (Submitted under review.)
5. Shuangshuang Han, Yuanyuan Qiao, **Yanting Zhang**, Wenhui Lin, Jie Yang. Analyze Users' Online Shopping Behavior Using Online Interest-Product Network. (Second student author.) (Submitted under review.)

HONORS & AWARDS

1st Prize, ICT International PBL Project, 2016

3rd Prize, National Postgraduate Mathematic Contest in Modeling, 2016

3rd Prize, China Graduate Contest on Application, Design and Innovation of Mobile-Terminal, 2016

2nd Prize, National Undergraduate Business Plan Competition (Capital Division), 2014

Honorable Mention, Mathematical Contest in Modeling (MCM/ICM), 2014

Merit student, BUPT, Three times, 2012, 2013, and 2014

National Endeavourers Fellowship, BUPT, Twice, 2013 and 2014

Educational fund of Jiongpang Zhou, BUPT, 2013

2nd scholarship, BUPT, 2012

SKILLS

- ✧ **Programming Languages:** Python; Matlab; Java; SQL; Html
- ✧ **Big Data & Frameworks:** Hadoop; Spark; Hive
- ✧ **Software:** NetBeans; Eclipse; Postgres; Unity3D; Adobe Series
- ✧ **Languages:** English; Chinese (native); Japanese (primary)

ACTIVITIES & LEADERSHIP

Monitor, administrative class, BUPT Sep.2012-Present

Took care of routine matters and managed students to participate in diverse activities.

Secretary, Technological Innovation Department, BUPT Sep.2015-Sep.2016

Designed, proposed plans, and cooperated with other fellows to organize innovative forums.

Volunteer, several clubs, Beijing Sep.2011-Oct. 2015

Beijing Marathon, China's National Grand Theater, and English teaching center.

PERSONAL

Enjoy outdoor activities (traveling, sightseeing, and etc.) and sketching.

Enjoy sports (badminton, table tennis, and etc.).