Libin **Wang**

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Education

Beihang University, School of Computer Science   *Beijing, China*

MASTER OF COMPUTER SCIENCE AND ENGINEERING   *Aug. 2017 - Present*

- Got the 2018 National Scholarship. Outstanding Graduates in Beijing
- Published four top conference papers.

Beihang University, School of Computer Science   *Beijing, China*

BACHELOR OF COMPUTER SCIENCE AND ENGINEERING GPA: 3.6/4.0 (89/100) RANKING: 15/228   *Aug. 2013 - Jun. 2017*

- Scored 400/500 (Top 0.65%) in CCF Certified Software Professional.
- Got the First Prize of the Contest of LAN QIAO Cup in Beijing, the First Prize Scholarship of Academic Competition in Beihang University, and the Second Prize Scholarship of Academic Performance in Beihang University.

Research Interests

Spatial Crowdsourcing, Online Algorithms, Reinforcement Learning, Algorithms for E-Commerce

Research Experience

Pricing Strategies in Spatial Crowdsourcing

LEADING STUDENT, PROF. YONGXIN TONG, DATABASE GROUP

- Designed pricing strategies to ameliorate the imbalance between supply and demand. Captured the characteristic of dependent local supply.
- Published a full paper in SIGMOD 2018[2].

Online Spatial Task Assignment Enhanced by Prediction Methods

LEADING STUDENT, PROF. YONGXIN TONG, DATABASE GROUP

- Utilized the prediction results to guide workers into areas in short supply. Designed online algorithms with theoretical guarantees.
- Published a full paper in VLDB 2017[3].

Efficient Time Plan for Individuals

LEADING STUDENT, PROF. YONGXIN TONG, DATABASE GROUP

- Observed the submodular utility values of tasks finished by individuals. Designed online matching algorithms for submodular maximization.
- Published a short paper in ICDE 2019[1].

Trichromatic Online Task assignment in Spatial Crowdsourcing

RESEARCH ASSISTANT, PROF. YONGXIN TONG, DATABASE GROUP

- Provided assistance for theoretical guarantees of the online 3-dimensional matching algorithms.
- Published a full paper in ICDE 2017[4].

Industry Experience

Taxi Demand Prediction on Large-Scale Online Platforms   *4Paradigm*

DATA ANALYST, SUPERVISED BY ITS CO-FOUNDER, YUQIANG CHEN   *Nov. 2016 - Jan. 2017*

- Engineered features to predict the trip requests in terms of POI points on taxi-calling platforms. Built a specific k-d tree to index objects.
- Integrated such prediction methods into our VLDB 2017 framework. Improved its robustness and effectiveness.

Language Tests

Toefl   Reading 29 Listening 28 Speaking 20 Writing 26
GRE   Verbal 158 Quantity 168 Writing 3.0

Extracurricular Activities

Teaching Assistant   Design and Analysis of Algorithms (2018 Fall)
Volunteer   APWeb-WAIM 2017, VLDB Summer School 2017, ICDM/ICBK 2019

Publications

[1] Procrastination-Aware Scheduling: A Bipartite Graph Perspective   *ICDE 2019: 1650-1653*

LIBIN WANG, YONGXIN TONG, CHUNMING HU, LEI CHEN, YIMING LI

[2] Dynamic Pricing in Spatial Crowdsourcing: A Matching-Based Approach   *SIGMOD 2018: 773-788*

YONGXIN TONG, **LIBIN WANG**, ZIMU ZHOU, LEI CHEN, BOWEN DU, JIEPING YE

[3] Flexible Online Task Assignment in Real-Time Spatial Data   *VLDB 2017: 1334-1345*

YONGXIN TONG, **LIBIN WANG**, ZIMU ZHOU, BOLIN DING, LEI CHEN, JIEPING YE, KE XU

[4] Trichromatic Online Matching in Real-Time Spatial Crowdsourcing   *ICDE 2017: 1009-1020*

TIANSHU SONG, YONGXIN TONG, **LIBIN WANG**, JIEYING SHE, BIN YAO, LEI CHEN, KE XU

[5] Online mobile Micro-Task Allocation in spatial crowdsourcing   *ICDE 2016: 49-60*

YONGXIN TONG, JIEYING SHE, BOLIN DING, **LIBIN WANG**, LEI CHEN