Yuxuan Liang

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INTRODUCTION

Yuxuan Liang is now in a joint Master program between Xidian University and Microsoft Research Asia (MSRA). Currently, he is an AI engineer intern at Urban Computing Lab, JD Group, supervised by the Chief Data Scientist Yu Zheng.

RESEARCH INTEREST

- Spatio-temporal data mining
- Deep learning
- Ubiquitous computing
- Sequence learning

PROFESSIONAL EXPERIENCE

National University of Singapore, Singapore
Research Assistant, Nov 2018 – March 2019
- In Felicitous Computing Institute, leaded by Prof. David S. Rosenblum
- Participate in ubiquitous computing research.

JD Group Inc., Beijing, China
AI Engineer @ Urban Computing Lab, Jan 2018 – Oct 2018
- Participate in cutting-edge research in deep learning applications in urban area.
- Develop solutions for sensor-based applications and large-scale problems.
- Build and maintain the AI platform of Urban Computing Lab.

Microsoft Research, Beijing, China
Research Intern @ Urban Computing Group, Jan 2017 – Jan 2018
- Apply data science methods and analytics to real-world problems based on heterogeneous data.
- Devoted to the applied research that advances the state-of-the-art in urban computing area.
- Conduct end-to-end analysis that includes data gathering and requirements specification, analysis, ongoing scaled deliverables and presentations.

Microsoft Research, Beijing, China
Research Intern @ Urban Computing Group, Dec 2015 – Sep 2016
- Apply data science methods and analytics to real-world problems based on the cross-domain data.
- Explore machine learning methods (e.g., multi-task learning) in urban areas to solve real-world problems.
- Survey the cutting-edge research closely related to our research interests.

EDUCATION

XIDIAN UNIVERSITY, Xi'an, China
Master of Computer Science, Sep 2016 - Present
- GPA: 88/100
- Full-time Internship for MSRA and JD.COM.

XIDIAN UNIVERSITY, Xi'an, China
Bachelor of Computer Science, Sep 2012 - Sep 2016
- GPA: 87/100
- Top-2 GPA at the outstanding class.
- Full-time Internship for MSRA.

PUBLICATON

[1] **Yuxuan Liang**, Kun Ouyang, Lin Jing, Sijie Ruan, Ye Liu, Junbo Zhang, David S. Rosenblum, Yu Zheng. UrbanFM: Inferring Fine-Grained Urban Flows. *KDD*, 2019.

[2] **Yuxuan Liang**, Songyu Ke, Junbo Zhang, Xiuwen Yi, Yu Zheng. GeoMAN: Multi-level Attention Networks for Geo-sensory Time Series Prediction. *IJCAI*, 2018.

[3] **Yuxuan Liang**, Zhongyuan Jiang, Yu Zheng. Inferring Traffic Cascading Patterns. *SIGSPATIAL*, 2017.

[4] Zheyi Pan, **Yuxuan Liang**, Weifeng Wang, Yong Yu, Yu Zheng, Junbo Zhang. Urban Traffic Prediction from Spatio-Temporal Data using Deep Meta Learning. *KDD*, 2019.

[5] Nirandika Wanigasekara, **Yuxuan Liang**, Joseph J. Williams, Siong Thye Goh, Ye Liu, David S. Rosenblum. Learning Multi-Objective Rewards and User Utility Function in Contextual Bandits for Personalized Ranking. *IJCAI*, 2019.

[6] Ye Liu, Yu Zheng, **Yuxuan Liang**, Shuming Liu, David S. Rosenblum. Urban Water Quality Prediction based on Multi-task Multi-view Learning. *IJCAI*, 2016.

AWARD & HONOR

- Outstanding winners of The Interdisciplinary Contest in Modeling, 2015.
- National scholarship, three times, 2015, 2016, 2017.
- CCF (China Computer Federation) outstanding student, 2015.
- The star of graduates in Xidian University, 2016.
- Silver medal of ACM/ICPC in Shaanxi province, 2015.
- Travel Grants at SIGSPATIAL, 2017.

COMMUNITY SERVICE

- Journal Reviewer
  - IEEE Transactions on Knowledge and Data Engineering (TKDE)
  - IEEE Transactions on Audio, Speech, and Language Processing (TASLP)
  - Neurocomputing
  - Information Science
  - Multimedia Tools and Applications
- Conference External Reviewer: IJCAI-19, KDD-19, KDD-18, SDM-18, CIKM-18, KDD-17, CIKM-17, CCFAI-17, ICDM-16, GIS-16

SKILL

- Programming skills: Matlab, Python, TensorFlow, Keras, C#, C++, Latex, HTML, CSS and JavaScript.
- Proficient in Microsoft Office and Microsoft Visio.
- Certification: Machine Learning (CS229), Convolutional Neural Networks for Visual Recognition (CS231n)
- Top 10% in Certified Software Professional (CSP) hosted by the China Computer Federation.

REFEREE

Yu Zheng	**David S. Rosenblum**
Vice President & Chief Data Scientist	Provost's Chair Professor
JD Intelligent Cities Research	School of Computing
JD Digits	National University of Singapore
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http://urban-computing.com/yuzheng	https://www.comp.nus.edu.sg/~david/index.html