Zheyi Pan

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Zheyi Pan is a computer science Ph.d student at Apex Data & Knowledge Management Lab of Shanghai Jiaotong University, supervised by Prof. Yong Yu. His research interest lies in data mining with a special focus on urban computing and spatio-temporal data. Before joining Apex Lab, he received Bachelor degree from Shanghai Jiaotong University (ACM Honored Class, 2011-2015), and took Ph.d courses at Cornell University as a visiting student. He was a intern at Microsoft Research Asia and JD Financial.

EDUCATION

APEX Lab, Department of Computer Science and Engineering, Shanghai Jiaotong University Shanghai, China
Ph.d student, supervised by Yong Yu. Research interests: urban computing, spatio-temporal data mining, deep learning. *Sep. 2015 - present*

Cornell University Ithaca, United States
Visiting student (SJTU - MSRA - Cornell Joint Research Program), sponsored by Microsoft Research Asia. *Aug. 2015 - Jun. 2016*

Cornell University Ithaca, United States
Visiting student, sponsored by Zhiyuan College of Shanghai Jiaotong University. *Jul. 2014*

ACM Honored Class, Zhiyuan College, Shanghai Jiaotong University Shanghai, China
Undergraduate student. Received Bachelor degree. *Sep. 2011 - Jun. 2015*

The Affiliated High School of Fujian Normal University Fuzhou, China
Senior high school student. *Sep. 2008 - Jun. 2011*

ACADEMIC & WORKING EXPERIENCE

JD Intelligent Cities Research, JD Financial Beijing, China
Research Intern, supervised by Yu Zheng. Research fields: urban computing, spatio-temporal data mining, deep learning. *Mar. 2018 - Jun. 2018*
- **ST-MetaNet**: Proposed a deep meta learning framework for traffic prediction.
- **Forum for Credit System Construction of Chinese Cities (Fuzhou, 2018)**: The forum is hold by National Development and Reform Commission. JD Financial is the forum organizer. Zheyi Pan was in charge of communicating with Fuzhou Municipal Government, giving regular report to executive vice mayor of Fuzhou city and vice president of JD Financial.

Urban Computing Group, Microsoft Research Asia Beijing, China
Research Intern, supervised by Yu Zheng. Research field: urban computing. *Jan. 2017 - Oct. 2017*
- **TrajGuard**: Proposed a comprehensive scheme to protect copyrights of trajectory data.

Mobile and Sensing System Group, Microsoft Research Asia Beijing, China
Research Intern, supervised by Feng Zhao. Research field: mobile and sensing system. *Sep. 2014 - Jun. 2015*
- **SIFT**: Proposed a system to verify whether conflicts can occur within or between IFTTT apps.
- **Beauty of Programming 2015**: Zheyi Pan was one of the problem assigners at semi-final competition.

PUBLICATIONS

- **Zheyi Pan**, Zhaoyuan Wang, Weifeng Wang, Yong Yu, Junbo Zhang, Yu Zheng. 2019. Matrix Factorization for Spatio-Temporal Neural Net-works with Applications to Urban Flow Prediction. In the 28th ACM International Conference on Information and Knowledge Management (CIKM'19), Beijing, China, November 2019. (CCF Rank B, applied research track, acceptance rate: 38/174=21.8%).

- **Zheyi Pan**, Yuxuan Liang, Weifeng Wang, Yong Yu, Yu Zheng, and Junbo Zhang. "Urban Traffic Prediction from Spatio-Temporal Data Using Deep Meta Learning". In Proceedings of the 2019 ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'2019), Anchorage, US, Aug 2019. (CCF rank A, research track, oral, acceptance rate: 110/1200=9.2%).

- **Zheyi Pan**, Jie Bao, Weinan Zhang, Yong Yu, and Yu Zheng. "TrajGuard: A Comprehensive Trajectory Copyright Protection Scheme". In Proceedings of the 2019 ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'2019), Anchorage, US, Aug 2019. (CCF rank A, applied data science track, acceptance rate: 145/700=20.7%).

- Liang, Chieh-Jan Mike, Börje F. Karlsson, Nicholas D. Lane, Feng Zhao, Junbei Zhang, **Zheyi Pan**, Zhao Li, and Yong Yu. "SIFT: building an internet of safe things." In Proceedings of the 14th International Conference on Information Processing in Sensor Networks (IPSN'2015).

HONORS & AWARDS

- **KDD 2019 Student Travel Award**. 2019
- **ZTE Fantastic Algorithm Competition Finals**: *Second prize*. 2017
- **Shanghai Jiaotong University Scholarship**: *Class C*. 2013
- **ACM-ICPC Asia Regional Contest (Hangzhou)**: *Gold*. 2012
- **ACM-ICPC Asia Regional Contest(Changchun)**: *Gold*. 2012
- **National Olympiad in Informatics**: *Silver*. 2010
- **Asia-Pacific Informatics Olympiad**: *Gold*. 2010
- **National Olympiad in Informatics in Provinces**: *First prize*. 2009
- **National Olympiad in Informatics**: *Silver*. 2009

Other Experience

Course of Mathematics in Computer Science, Shanghai Jiaotong University Shanghai, China
Course assistant. Tutor: Prof. John Hopcroft. *2017*

Fujian Olympiad in Informatics Winter Camp Fuzhou, China
Course teacher. *2014*

Course of Data Structure, Shanghai Jiaotong University Shanghai, China
Course assistant. Tutor: Prof. Yong Yu. *2013*

Course of Principle and Practice of Computer Algorithms, Shanghai Jiaotong University Shanghai, China
Course assistant. Tutor: Prof. Yong Yu *2013*

Fujian Olympiad in Informatics Summer Camp Fuzhou, China
Course teacher. *2011*

Skills

The skills associated with computer science are listed as follow, starting from the most familiar ones.

- **Programming Languages**: Python, Java, C++, MySQL, C, C#, Pascal, PHP, HTML, Javascript, CSS, Bash, R, MATLAB.

- **Libraries & Frameworks**: MXNet, Numpy, Scikit-Learn, Pandas, TensorFlow, PyTorch, Keras, OpenCV, OpenGL, ANTLR, Spark.