

ZHIYUAN WANG

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EDUCATION

School of Informatics, Xiamen University (XMU)
B.Eng. in Computer Science (GPA: 3.39/4.0, Upper GPA: 3.67/4.0)
Minor in Economics

2017.9 - expected in 2021.6

RESEARCHES

(Funded by Undergraduate Discipline Construction Funding of XMU)

➤ Intern in Fujian Key Laboratory of Sensing and Computing for Smart City (SCSC Lab.)
Data-Driven Hospital Patient Flow Modeling, Prediction, and Scheduling 2019.9 - Present
Manager | SCSC Lab, XMU Advisor: Longbiao Chen, Dingqi Yang
• Two papers (I work as first author) are respectively accepted by GPC2020 and on submission to Ubicomp2020.

Baidu-XMU Joint Research on the Spread of the COVID-19 Epidemic 2020.1 – Present
Core Researcher | Big Data Lab, Baidu & SCSC Lab, XMU Advisor: Haoyi Xiong, Longbiao Chen
• Build two epidemic spreading prediction models with Tensorflow and PaddlePaddle leveraging the human mobility data cooperating with Baidu Research Institute, and open-source the code and visualization platform.
• This work is orally reported in the 2020 Baidu World Conference by Baidu Research Institute as one of three highlight applications against COVID-19.

Impact of Human Mobility Analysis on the Spread of the COVID-19 Epidemic 2020.1 – Present
Core Researcher | SCSC Lab, XMU & CCNT Lab, ZJU Advisor: Longbiao Chen, Gang Pan, Qiyuan Li
• By analyzing the time-lag cross-correlation between the spread of the COVID-19 epidemic and multiple factors, we estimate the probable effectiveness of different public health interventions, such as lockdown and city-wide quarantine, and interpret the spread of the epidemic basing on our findings and discussions.

Crowdsensing and GNN Based Bike Sharing System Optimization 2019.7 - 2019.10
Member | SCSC Lab, XMU Advisor: Longbiao Chen
• A paper (I work as third author) is on submission to the IEEE Systems Journal.

COMPLETED THESES

(Accepted) **Zhiyuan Wang**, Ruiying Guo, Linghong Hong, Cheng Wang, Longbiao Chen*, Demand-Responsive Windows Scheduling in Tertiary Hospital Leveraging Spatiotemporal Neural Networks, The 15th International Conference on Green, Pervasive and Cloud Computing (GPC2020)

(On Submission) **Zhiyuan Wang**, Shang Shi, Dingqi Yang, Qiyuan Li, Xiaoliang Fan, Binbin Zhou, Jianying Wu, Longbiao Chen*, Cheng Wang, Will you see an overcrowded hospital? Modeling Hospital Emergency Patient Flow Using Open Government Data, submitted to Ubicomp2020 in Aug 2020

(On Submission) Ruiying Guo, Zhihan Jiang, **Zhiyuan Wang**, Hong Hong, Zhiyong Yu, Weijie Zhang, Longbiao Chen*, Cheng Wang, RedPacketBike: Deep Bike Demand Forecast and Crowd-Driven Station Rebalancing for Bike Sharing Systems, submitted to IEEE System Journal in Feb 2020

(China Patent) Longbiao Chen, Ruiying Guo, Zhihan Jiang, **Zhiyuan Wang**, Cheng Wang. A Method for Bike Demand Prediction and Scheduling Based on Deep Learning and Crowd Sensing. China Patent 202010599191.3.

ACADEMIC ACTIVITIES

Advanced Computing and System Lab. (CCNT), Zhejiang University
“Internet of Things: System and Security” Summer School, Zhejiang University
CSCW and Social Computing Summer School, Fudan University
The 15th International Conference on Green, Pervasive and Cloud Computing
The 16th Joint Conference on Harmonious Human-Machine Environment

Remote Intern, 2020.4 - Present
Short-Term Learning, 2019.6
Online Learning, 2020.8
Paper Presentation, 2020.9
Volunteer, 2020.10

MAJOR HONORS AND AWARDS

COMAP's Mathematical Contest in Modeling Meritorious Winner, 2020.1
Team Leader | Project: Data Mining on Amazon Online Product Reviews (Top 6% in the World)
China Collegiate Computer Design Competition (Big Data Track) National Second Prize, 2019.7
Team Member | Project: Information Extraction in Cancer Electronic Medical Record (Top 2% in China)
Scholarship for the 99th Anniversary of Xiamen University 2019.4
Scholarship for Outstanding Academic Performance every year in XMU
Undergraduate Discipline Construction Funding of XMU (60000 rmb) since 2020.3

SKILLS AND QUALIFICATIONS

Language: English (TOEFL iBT 107 | Reading 29, Listening 28, Speaking 22, Writing 28), Chinese (Native)
Programming: Python, Java, C++, SQL, Shell, HTML/CSS/JavaScript
Tools: Tensorflow, Pandas, Keras, Neo4j, Numpy, Matplotlib, Seaborn