

RESUME

NAME: Mengyun Xu **GENDER:** Female
BIRTH: Quanzhou, Fujian Province, P. R. China
MAJOR: Transportation Engineering
E-MAIL: xmymymy@foxmail.com; e1316933@u.nus.edu; xumengyun@whut.edu.cn;

EDUCATION:

Sept. 2013-June 2017 Bachelor, Dept. of Civil Engineering, Fuzhou University, Majoring in Transportation Engineering

Sept.2017-Mar. 2020 Master, Dept. of Civil Engineering, Graduate School of Fuzhou University, Majoring in Transportation.

Sept.2020- Ph.D. In the Intelligent Transport System Research Center, Wuhan University of Technology

Oct.2023- Exchange Student, Dept. of Civil and Environment Engineering, National University of Singapore

INTENDED AREAS OF STUDY:

Intelligent Transportation System
Transportation Data Analytics, Modeling and Traffic Control
Connected and Automated Vehicles
Machine Learning in Transportation

PAPERS:

1. "Signal-control refined dynamic traffic graph model for movement-based arterial network traffic volume prediction." *Expert Systems With Applications*, 2023. (1st author)
2. "An Intelligent Adaptive Spatial-Temporal Graph approach for GPS data based Travel Time Estimation", *IEEE Intelligent Transportation System Magazine*, 2021. (1st author)
3. "Internet of Vehicles Data-Oriented Arterial Travel Time Estimation Framework With Dynamic Multigraph Model." *IEEE Intelligent Transportation Systems Magazine*, 2023. (Corresponding author, 2nd author)
4. "Multi-Objective Traffic Signal Control Using Network-Wide Agent Coordinated Reinforcement Learning." *Expert Systems With Applications*. 2023. (Corresponding author)
5. "A Multi-Attention Tensor Completion Network for Spatiotemporal Traffic Data Imputation", *IEEE Intelligent of Thing Journal*, 2022. (2nd author)
6. "A Map-Matching Algorithm With Extraction of Multi-Group Information for Low-Frequency Data." *IEEE Intelligent Transportation Systems Magazine*.2022. (Corresponding author)
7. "A Macro-Microscopic Traffic Flow Data-Driven Optimal Control Strategy for Freeway", *Proc. IMechE, Part D: Journal of Automobile Engineering*,2023. (Corresponding author)

8. "Trajectory-Based Spatiotemporal Multi-Task Multi-Graph Network for Traffic State Prediction", Transportation Research Record: Journal of the Transportation Research Board. (Corresponding author)
9. "Utilizing Artificial Neural Network in GPS-equipped Probe Vehicles Data Based Travel Time Estimation". *IEEE Access*, 2019. (1st author)
10. "Travel Time Prediction Method with Multi-Graph Traffic Network Model", 29th ITS World Congress, 2023. (1st author)
11. "Probe Vehicles Data Based Traffic Speed Estimation for Urban Road Network", 20th COTA International Conference of Transportation, 2020. (1st author)

HONORS:

1. Wuhan University of Technology Scholarship 2020-2021/2021-2022, First Prize
2. National scholarship for graduate student, 2019-2020
3. Fuzhou University Scholarship 2017-2018/2019-2020, First Prize
4. Excellent Undergraduate/graduate Scholarship

SKILLS

Familiar with Python, Java, MATLAB, Oracle, ArcGIS, VISSIM

English: good in speaking, reading and writing abilities (CET-6)