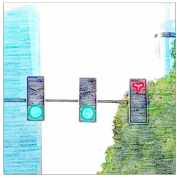


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Yunqing Jia

Date of Birth: Sept. 7th, 1999

Master of Engineering (Academic Degree)

School of Transportation

Southeast University, Nanjing, P. R. China

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EDUCATION

•Southeast University

Sept. 2021 - Jun. 2024

M.E. in Transportation Information Engineering and Control

GPA: 3.81/4.0

•Chang'an University

Sept. 2017 - Jun. 2021

B.E. in Transportation Engineering (Bilingual Program)

GPA (Percentage): 3.73/4.0 (Top 10%)

PUBLICATION

He, Y., Jia, Y., **Jia, Y.**, An, C., Lu, Z. & Xia, J. An integrated intra-view and inter-view framework for multiple traffic variable data simultaneous recovery, in IEEE Transactions on Intelligent Transportation Systems, doi: 10.1109/TITS.2024.3414506.

Chen, X. *, & **Jia, Y.** (2021). Sustainable traffic management and control system for arterial with contraflow left-turn lanes. Journal of Cleaner Production, 280, 124256.

SELECTED CONFERENCE PRESENTATION

Chen, X * & **Jia, Y.**. Traffic signal optimization for mitigating pollutant emissions of grid intersections with contraflow left-turn lanes. 2024 TRB Annual Meeting, January 7-11, 2024, Washington, D.C., United States.

Jia, Y., An, C. *, Lu, Z., & Xia, J. Joint optimization of time-of-day intervals and robust signal timing for isolated intersection. 23rd COTA International Conference of Transportation Professionals, July 14-17, 2023, Beijing, China

SELECTED RESEARCH (R) & PROJECT (P) EXPERIENCE

•Joint Optimization of Connected Bus Trajectory and Traffic Signal (R)

Jan. 2023 - Present

– Link transmission model, model predictive control, moving bottleneck, mixed traffic flow.

•Traffic Signal Optimization of Intersections with Contraflow Left-turn Lanes (R)

Apr. 2018 - Mar. 2024

– [Jul. 2021 - Mar. 2024]: Network-level intersections, nonlinear programming.

– [Jul. 2019 - Sept. 2020]: Arterial-level intersections, multi-objective sustainability, NSGA-II.

– [Apr. 2018 - May 2019]: Isolated intersection, queue accumulation polygon, genetic algorithm.

•Urban Road Network Modeling & Simulation Based on Field Data (P)

Feb. 2022 - Feb. 2024

– A matrix-based coding method for capturing road network topology & traffic demand.

TECHNICAL SKILLS AND INTERESTS

Languages: Mandarin (1st language), English (IELTS: 7.5 till Jun. 2025), French (2nd foreign language course).

Programming: MATLAB R2022a, Python 3.10, Visual Basic 6.0, XML, Markdown, SQL, R.

Developer Tools: MATLAB GUI, Anaconda (Pycharm, Spyder), VS Code (Latex, Github Pages).

Transportation Software: VISSIM 11, AIMSUN 8.3.0, SUMO 1.18.0, Synchro 10, TransCAD 6.0, AutoCAD 2014.

Areas of Interest: Joint estimation of urban traffic state & model parameters utilizing AI / ML methods, multi-modal mixed traffic flow modeling, large-scale traffic signal optimization under mixed traffic flow.

POSITIONS OF RESPONSIBILITY

•Student Association for Innovation and Entrepreneurship, School of Highway, Chang'an University.

2017 - 2020

Deputy chairman (2019 - 2020)

•Highway Transportation Museum, Chang'an University.

2018 - 2019

Guide

SELECTED CERTIFICATE & AWARD

Google Data Analytics Professional Certificate

2024

Jiangsu Provincial Research Smart Transportation Innovation and Practice Competition (3rd Prize)

2022

MatherCup University Mathematical Modeling Competition (1st Prize)

2022

The 18th China Post-Graduate Mathematical Contest in Modeling (3rd Prize)

2021

'Challenge Cup' Shaanxi Provincial College Student Competition - Academic Works (1st Prize)

2021

China Undergraduate Mathematical Contest in Modeling - Shaanxi Province (2nd Prize)

2019

The 9th Transportation Science & Technology Competition of Chang'an University (3rd Prize)

2019

Exemplary Individual of 2018 Summer Social Practice Activities of Chang'an University

2018

National Computer Rank Examination Certificate of China (Level 2)

2018