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Publication Level	II-c

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 [Github](#)



Yunqing Jia

Master of Engineering

University Project Assistant

Vehicle Safety Institute

Graz University of Technology

EDUCATION

•Southeast University

Sept. 2021 - Jun. 2024

M.E. in Traffic & Transportation Engineering

GPA: 3.81/4.0

(Traffic Information Engineering and Control)

(Average Score: 90.93/100)

•Chang'an University

Sept. 2017 - Jun. 2021

B.E. in Transportation Engineering (Bilingual Program)

GPA: 3.73/4.0 (Top 10%)

PUBLICATION [\[LIST\]](#)

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. [\[Paper\]](#) [\[Code\]](#)

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

SELECTED CONFERENCE PRESENTATION [\[LIST\]](#)

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

•AI & ML in Transportation

- [R] Multi-view learning & low-rank representation model for multiple traffic data recovery (*Participant*).
- Future interest: Joint estimation & prediction of urban traffic state variables & model parameters.

•Multi-modal Traffic Flow Modeling

- [\[R\]](#) Joint optimization of connected bus trajectory and traffic signal (*Master thesis*).
- [\[P\]](#) A matrix-based coding method for capturing road network topology & traffic demand (*Principal*).

•Large-scale Traffic Signal Optimization (Under Mixed Traffic Flow)

- [\[R\]](#) Traffic signal optimization of intersections with contraflow left-turn lanes (*Principal*).
- [\[R\]](#) Robust time-of-day traffic signal control (*Principal*).
- [\[R\]](#) Sustainable traffic management and control strategy for Urban intersections (*Bachelor thesis*).

TECHNICAL SKILLS & CERTIFICATES

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.

Certificates: Google Data Analytics Professional Certificate

2024

National Computer Rank Examination Certificate of China (Level 2)

2018

POSITIONS OF RESPONSIBILITY

•Vehicle Safety Institute, Graz University of Technology.

2025 - present

University project assistant

•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 AWARD [\[LIST\]](#)

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