Code	JS008-202403 (JMOL_2301BIII)
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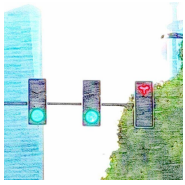
Yunqing Jia

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EDUCATION

•**Southeast University** — *Sept. 2021 - Jun. 2024 (expected)*
M.E. in Transportation Information Engineering and Control — GPA: 3.81/4.0

•**Chang'an University** — *Sept. 2017 - Jul. 2021*
B.E. in Transportation Engineering (Bilingual Program) — GPA (Percentage): 3.73/4.0 (Top 10%)

PUBLICATION

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

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 - Present*

– [Jul. 2021 - Present]: 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.

Developer Tools: 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 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 AWARD

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*