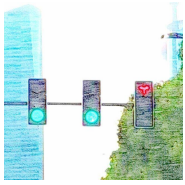


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## Yunqing Jia

Date of Birth: Sept. 7<sup>th</sup>, 1999

Graduate Student

School of Transportation

Southeast University, Nanjing, P. R. China

[linkedin.com/in/yunqing-jia-jerland/](https://www.linkedin.com/in/yunqing-jia-jerland/)

[Jonlained@outlook.com](mailto:Jonlained@outlook.com)

[yunqingjia@seu.edu.cn](mailto:yunqingjia@seu.edu.cn)

[yunqing-jia.github.io/Jerland/](https://github.com/yunqing-jia/Jerland/)

## EDUCATION

### •Southeast University

Sept. 2021 - Jun. 2024 (expected)

M.E. in Transportation Information Engineering and Control

### •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

– Bi-level optimization, 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 - Present

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

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Mandarin (1<sup>st</sup> language), English (IELTS: 7.5 till Jun. 2025), French (2<sup>nd</sup> 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, 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 (3<sup>rd</sup> Prize) 2022

MatherCup University Mathematical Modeling Competition (1<sup>st</sup> Prize) 2022

The 18<sup>th</sup> China Post-Graduate Mathematical Contest in Modeling (3<sup>rd</sup> Prize) 2021

'Challenge Cup' Shaanxi Provincial College Student Competition - Academic Works (1<sup>st</sup> Prize) 2021

China Undergraduate Mathematical Contest in Modeling - Shaanxi Province (2<sup>nd</sup> Prize) 2019

The 9<sup>th</sup> Transportation Science & Technology Competition of Chang'an University (3<sup>rd</sup> Prize) 2019

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