

Li Yiming

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Education

Tongji University, B.E. in Traffic Engineering Sept. 2020 – Jul. 2024

- GPA: 92.82/100

Tongji University, Ph.D. in Traffic and Transportation Engineering Sept. 2024 – Mar. 2030(Expected)

- GPA: 91.85/100

Research

Multi-armed Bandit for Stochastic Shortest Path in Mixed Autonomy Jan. 2025 – Jul. 2025

Research Content:

- Dynamic Programming in Stochastic Environments.
- Applications of Multi-Armed Bandits in Transportation Problems.

The IEEE International Conference on Intelligent Transportation Systems(2025):

Y. Bai, Y. Li, and X. Xiong, “Multi-armed bandit for stochastic shortest path in mixed autonomy,” in *IEEE Conference on Intelligent Transportation Systems (ITSC)*, 2025, to appear.

Generalization of Pavement Disease Detection in Different Regions Oct. 2023 – Jul. 2024

Research Content:

- Pavement disease detection.
- Implementing domain adaptation in image datasets from different regions.

TRB Conference(2025):

Li, Y., Chen, J., Lang, H., & Qian, J. (2024). Intelligent pixel-level segmentation of pavement sealed cracks using CycleGAN-based domain adaptation. 104rd Annual Meeting of the *Transportation Research Board*, Washington, D.C., January 2025.

Research on Signal-Controlled Intersection Congestion Identification Methods Jan. 2024 – Jul. 2024

Research Content:

- Study of congestion state identification indicators and measurement methods for intersections.
- Description and preprocessing of basic data.
- Establishment of a congestion identification model for intersections.

The 25th COTA International Conference of Transportation Professionals (CICTP 2025) :

Li, Y., Bai, Y., and Xiao, B. (2025). “Intersection congestion identification method based on fuzzy C-means clustering.” *Proc., 24th COTA International Conference of Transportation Professionals (CICTP 2025)*, ASCE, Reston, VA, to appear.

Skills

Languages: Chinese (Native), English (CET6: 545)

Programming Languages: Python, C++ , R , matlab

Drawing Software CAD (Computer-Aided Design)

Simulation Software: VISSIM, SUMO, VISUM

Awards

Honorable Mention, MCM/ICM Nov. 2022

National Scholarship 2021-2022

University-level Scholarships 2020-2021, 2022-2023

Outstanding Graduate of Shanghai 2024