

Yifan Wang

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Education

- 2022 - now 📖 **Master, Tongji University**
Major: Transportation Engineering, College of Transportation
Advisor: Prof.Xuesong Wang
English: IEILS 6.5 (6.0)
GPA: 85.6/100
- 2018 - 2022 📖 **Bachelor, Tongji University**
Major: Applied Mathematic, College of Mathematical Science
GPA: 87.8/100

Work Experience

- 2025.10 - now 📖 **Research Assistant, New York University Shanghai**
Department: Computer Science
Advisor: Prof.Zhaonan Wang

Research Publications

Journal Articles

- 1 **Y. Wang**, X. Wang*, T. Wang, and M. Quddus, "Freeway real-time crash prediction using floating car data," *Transportation Research Part C: Emerging Technologies* (Q1 TOP, IF=7.9), vol. 171, 2025. 📄 DOI: 10.1016/j.trc.2025.105009.
- 2 **Y. Wang** and X. Wang*, "Causal relationship discovery for highway crash analysis using semi-data-driven Bayesian network.," *Accident Analysis and Prevention* (Q1, IF=6.2), vol. 221, 2025. 📄 DOI: 10.1016/j.aap.2025.108181.

Conference Proceedings

- 1 **Y. Wang**, Z. Chen, and X. Wang*, "Optimization of road geometry parameters based on vehicle operation state," in *Transportation Research Board 104th Annual Meeting*, Washington D.C., USA, 2025.



Projects

MIT-UF-NEU 2025 Joint Summer Research Camp



- 2025.05 - 2025.09 📖 Research topic: Uncertainty quantification and calibration of EV charging demand. The camp is hosted by Prof.Jinhua Zhao at MIT, Prof.Shenhao Wang at UF, Prof.Haris Koutsopoulos at NEU. I worked with Dr.Yunhan Zheng at MIT.

Projects (continued)


Operational Safety Evaluation of Autonomous Driving Vehicles

- 2023.12-2024.04  Collect the traffic participant data extracted from the cameras installed on the roadside.
-  Identify the target vehicle trajectory from the traffic participant data.


Driving Alertness Screening and Application Research

- 2022.09-2023.02  Merge different datasets from driving simulation experiments, and write a manual about data cleaning.
-  Build the statistical models and analyze the important factors of brake reaction time and lane departure.

Traffic Safety Management and Risk Control in Suzhou, China




- 2023.09-2024.06  Analyze the relationships between different variables using the Bayesian network, like traffic flow, weather, and crash.

Skills


- Software  Python, Matlab, Stata, SPSS, ArcGIS, L^AT_EX
- Ability  Advanced statistic analysis, Causal inference, Machine learning, Traffic big data

Miscellaneous Experience

Awards and Achievements

- 2019  **Second prize**, National college students mathematics competition, Mathematical society of China.
- 2020  **Third scholarship**, Tongji University.
-  **Scholarships for social activities**, Tongji University.

Organization Experience

- 2020-2021  **Chairman**, Mathematics modeling organization, Tongji University.