

Yifan Wang

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Education

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

- Interests
- Traffic Prediction, Causal inference, Uncertainty Quantification
- Software
- Python, Matlab, Stata, SPSS, ArcGIS, \LaTeX

Miscellaneous Experience

Teaching

- Fall Semester 2024
- Applied Statistics**
Teaching Assistant, Graduate Course
Advisor: Prof. Xiaoyu Zhang, College of Mathematical Science, Tongji University.
- Spring Semester 2024
- Transportation Statistics Analysis and Modeling**
Teaching Assistant, Undergraduate Course
Advisor: Prof. Xuesong Wang and Prof. Lishengsa Yue, College of Transportation, Tongji University.

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.

Reviewer

- Journals
- IEEE Transactions on Intelligent Vehicles (Q1).