

# 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.Shen Hao 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, L<sup>A</sup>T<sub>E</sub>X

## 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).