Junjie Hu

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EDUCATION

09/2023-6/2026	**Central South University, Changsha, China**
	M.Sc., Traffic Engineering
	Advisor: Prof. Dr. Jaeyoung Jay Lee
09/2019-6/2023	**Central South University, Changsha, China**
	B.Sc. Transportation Planning and Management
	Advisor: Prof. Dr. Guohua Wu & Prof. Dr. Jaeyoung Jay Lee

HONORS AND SCHOLARSHIPS

09/2023	**China Graduate Student Mathematical Modelling Competition** (National Second Prize)
03/2022	**The Mathematical Contest in Modeling Competition** (H Prize)
03/2022	**Chinese University Student Science Contest on Energy Saving & Emission Reduction Competition** (National Third Prize)
12/2021	**National College Student Logistics Simulation Competition** (National Third Prize)
12/2021	**Asia and Pacific Mathematical Contest in Modeling** (National Third Prize)
09/2020-09/2022	**Academic Scholarship for Central South University** (Third Prize for three consecutive years)

PUBLICATIONS

#4	**Hu, J.**, Hu, C., Yang, J., Bai, J., & Lee, J. J. (2024). Do traffic flow states follow Markov properties? A high-order spatiotemporal traffic state reconstruction approach for traffic prediction and imputation. Chaos, Solitons, and Fractals, 183(114965), 11 **(JCR Q1)**
#3	**J. Hu**, J. Bai, J. Yang, and J. Lee,Crash Risk Prediction Using Sparse Collision Data: Causal Inference and Graph Convolutional Networks Approaches. Available at SSRN: https://ssrn.com/abstract=4558734 or http://dx.doi.org/10.2139/ssrn.4558734. **(Under second review in *Expert Systems with Applications; * JCR Q1)**
#2	**J. Hu**, Zhang, J. Bai, and J. Lee, Unraveling the Dynamic Rules of Urban Traffic Crashes: Tucker-Net Based SIRS Model. Available at SSRN: https://ssrn.com/abstract=4697054 or http://dx.doi.org/10.2139/ssrn.4697054.**(Under first review in *Journal of Transport Geography:*JCR Q1)**
#1	Yang, J., Lee, J., Mao, S., & **Hu, J.** (2024). Dynamic safety estimation of airport pick-up area based on video trajectory data. IEEE Transactions on Intelligent Transportation Systems: A Publication of the IEEE Intelligent Transportation Systems Council, 25(2), 1774–1786. https://doi.org/10.1109/tits.2023.3316199. **(JCR Q1)**

EXPERTISE

Programming Language: Proficient in: Python; Familiar with: Matlab,SPSS,Latex.

Software: SPSS,GIS tools, Auto CAD, Mendeley.

Languages: English, Chinese.