CHEN TIANYI

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Tel: +65 8494 4306

· Research Interests

Traffic risk analysis, Intelligent transportation system, Advanced Driving Assistant System (ADAS), Statistics and data science, Machine learning.

· Educational Background

2018 - 2021	**Nanyang Technological University（NTU）**
	School of Civil and Environmental Engineering (CEE)
	Ph.D. candidate in Transportation Engineering
2017 - 2018	**Nanyang Technological University（NTU）**
	School of Mechanical and Aerospace Engineering (MAE)
	M.Sc. in Supply Chain and Logistics
	CGPA: 4.63/5.00
2013 - 2017	**Wuhan University of Technology (WHUT)**
	School of Logistics Engineering
	B.En. in Logistics Engineering
	GPA: 3.7/5 (87/100), Rank: 5/52.

· Selected Publications

[1]   **Chen, T.**, Shi, X., & Wong, Y. D. (2019). Key feature selection and risk prediction for lane-changing behaviours based on vehicles' trajectory data. *Accident Analysis and Prevention*, 129, 156-169.

[2]   **Chen, T.**, Shi, X., Wong, Y. D., & Yu, X. (2020). Predicting lane-changing risk level based on vehicles' space-series features: A pre-emptive learning approach. *Transportation Research Part C: Emerging Technologies*, 116, 102646.

[3]   **Chen, T.**, Shi, X., and Wong, Y. D. (2020). A lane-changing risk profile analysis method based on time-series clustering. *Physica A: Statistical Mechanics and its Applications*, 565, 125567.

[4]   **Chen, T.**, Wong, Y. D., Shi, X., & Yang, Y. (2021). A data-driven feature learning approach based on Copula-Bayesian Network and its application in comparative investigation on risky lane-changing and car-following maneuvers. *Accident Analysis and Prevention*, 154, 106061.

· Awards

2017 - 2018	Certificate of excellence, School of MAE, NTU
2016 - 2017	Excellent graduation thesis, WHUT
2015 - 2016	The third prize. Academic scholarship, WHUT
	Merit student, School of logistics engineering, WHUT
2014 - 2015	The second prize. Academic scholarship, WHUT
	Merit student, School of logistics engineering, WHUT
2013 - 2014	The third prize. Academic scholarship, WHUT
	Merit student, School of logistics engineering, WHUT