Curriculum Vitae

Taeho Oh

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EDUCATION

2019.09-2025.03	Department of Civil and Environmental Engineering, Monash University, Australia (Ph.D.) Title of thesis: *A Feasible Human-like Multidimensional driving behavior framework design for autonomous vehicles (prof. Graham Currie)*
2018.09-2025.03	The school of Transportation, Southeast University, China (Ph.D.) Title of thesis: *A Human Interaction-based Driving Behavior Modeling using Multiplayer Simulator for Balancing Safety and Efficiency in Overtaking Scenario (prof. Zhibin Li)*
2015.03-2017.02	Department of Urban & Transportation Engineering, Kongju National University, Korea (Master of Engineering) Title of thesis: *A Study on VMS & Signal Optimization in Respect of Traffic Congestion Decisions Using COM Interface (prof. Seonha Lee)*
2009.03-2015.02	Department of Construction & Environmental Engineering, Kongju National University, Korea (Bachelor of Science in Urban and Transportation)

CAREER

2025.08-present	Post-doctoral Research Fellow, PRISM-AI Center, Korea Advanced Institute of Science and Technology, Daejeon, Korea
2025.04-2025.07	Post-doctoral Research Fellow, Cho Chun Shik Graduate School of Mobility, Korea Advanced Institute of Science and Technology, Daejeon, Korea
2023.03-2025.03	Researcher, Cho Chun Shik Graduate School of Mobility, Korea Advanced Institute of Science and Technology, Daejeon, Korea
2023.03-2024.08	Lecturer, Kongju National University, Cheonan, Korea

REFERRED JOURNAL ARTICLES

1. **Oh, T**., Kim, E. M., Nguyen, T. T., Jung, H., Choi, Y., Liebe, L., ... & Lee, D. (2025). Scalable and Interoperable C-V2X Framework for Real-time Intelligent Decision Support in Autonomous Mobility. Communications in Transportation Research.

2. **Oh, T**., Lim, J., Tamakloe, R., Li, Z., & Kim, I. (2024). Enhancing mutual understanding of e-scooter user's perspective in overtaking maneuver through replaying own driving trajectory. Accident Analysis & Prevention, 207, 107750.

3. **Oh, T**., Kang, H., & Li, Z. (2024). Exploring Safe Overtaking Behavior on Two-Lane Two-Way Road Using Multiagent Driving Simulators and Traffic Simulation. Journal of Advanced Transportation, 2024(1), 8242764.

4. **Oh, T**., Xu, Y., Li, Z., & Kim, I. (2022). Driving Risk Analysis Based on Driving Experience at Hook-Turn Intersection Using the Emerging Virtual Reality Technology. Journal of Advanced Transportation, 2022(1), 8929826.

5. Park, H., **Oh, T**., Lim, J., & Kim, I. (2026). Micro mobility safety challenges: a study on drivers overtaking bicycles and E-scooters in relation to road conditions and prior riding experience. Transportation Research Part F: Traffic Psychology and Behaviour, 117, 103482.

6. Ye, S., Chen, T., Oviedo-Trespalacios, O., Ali, Y., **Oh, T**., & Kim, I. (2025). How do the drivers react to different C-V2X-based communication conditions in dilemma zones? A driving simulator study. Accident Analysis & Prevention, 221, 108208.

7. Lim, J., Park, H., **Oh, T**., & Kim, I. (2025). The impact of information delivery systems in tunnels depending on lighting intensity and speed limit. Tunnelling and Underground Space Technology, 157, 106365.

8. Park, H., **Oh, T**., & Kim, I. (2024). Effects of driver's braking behavior by the real-time pedestrian scale warning system. Accident Analysis & Prevention, 205, 107685.

9. Xu, L., **Oh, T**., Kim, I., & Hu, X. (2022). Are shared streets acceptable to pedestrians and drivers? Evidence from Virtual Reality experiments. PLoS one, 17(4), e0266591.

10. Xu, Z., Zou, X., **Oh, T**., & Vu, H. L. (2021). Studying freeway merging conflicts using virtual reality technology. Journal of safety research, 76, 16-29.

11. Yoo, Y., Kang, H., Yoo, S., & **Oh, T**. (2023). Tour-based Personalized Trip Analysis and Calibration Method for Activity-based Traffic Demand Modelling. The Journal of The Korea Institute of Intelligent Transport Systems, 22(6), 32-48.

12. Kwon, D., **Oh, T**., Yoo, S., & Kang, H. (2023). Entity Embeddings for Enhancing Feasible and Diverse Population Synthesis in a Deep Generative Models. The Journal of The Korea Institute of Intelligent Transport Systems, 22(6), 17-31.

13. Park, H., **Oh, T**., & Kim, I. (2022). A Study on Validation of Omnidirectional VR Treadmill by Comparison of Spatial Orientation Skills. The Journal of The Korea Institute of Intelligent Transport Systems, 21(5), 15-27.

14. Jung, J., **Oh, T**., & Kim, I. (2021). Volume delay function calibration based on GPS trajectory data. Journal of Korean Society of Transportation, 39(4), 399-408.

15. Jung, J., **Oh, T**., Kim, I., & Park, S. (2023). Open-sourced real-time visualization platform for traffic simulation. *Procedia Computer Science*, *220*, 243-250.

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REFERRED CONFERENCE PAPERS

1. Taeho Oh, Zhibin Li, Inhi Kim, Robust Overtaking Behavior with Human Interaction in Multi-agent Driving Simulator Supported by Machine Learning, TRB, 2023, Washington DC

2. Taeho Oh, Inhi Kim, Overtaking Maneuvers using Multi-Agent Systems on a Two-Lane Two-Way Road, ITS World Congress, 2022, LA

3. Hyunchul Park, Taeho Oh, Inhi Kim, Effects of Driver's Braking Response by the Real-Time Pedestrian Scale Warning System, TRB, 2023, Washington DC

4. Hyunchul Park, Taeho Oh, Inhi Kim, Validation of Spatial Orientation Skill using Virtual Reality Treadmill, ITS World Congress, 2022, LA

5. Donghyun Kwon, Taeho Oh, Changhee Lee, Inhi Kim, Large Scale Multi-source Traffic Flow Forecasting Based on Attention Based Spatio-Temporal Graph Convolutional Networks - LSTM, ITS World Congress, 2022, LA
6. Lurong Xu, Taeho Oh, Inhi Kim, Xiaojian Hu, Explore the applicability of shared streets with virtual reality technology: A case study of Suzhou, China, Transportation Research Board's 100th Annual Meeting, 2020, Washington, D.C
7. Oh Taeho et al, The Use of Emerging Virtual Reality Technology in Road Safety Analysis: The hook-turn case, Transportation Research Board's 99th Annual Meeting, 2019, Washington, D.C

AWARDS

1. TRB Outstanding Paper Award, Committee on Bicycle Transportation at 104th Transportation Research Board (TRB) Annual Meeting
   - Park., H., **Oh, T**., Lim, J., *Kim, I., Micromobility Safety Challenges: A Study on Drivers Overtaking Bicycles and E-Scooters according to Road Conditions and Cross-Modal Experience, the 104th TRB Annual Meeting, Washington, DC, US, 2025
2. Academic award, Korean Society of Transportation (KST), 2022,
   - Jung, J., Oh, T., Kim, I., A Method for Calibrating Travel Cost Functions Based on GPS Trajectory Data, 2022
3. Best paper award, The 85th Korean Society of Transportation (KST) Conference, 2021
   - Oh, T., Kim, I., Development of a VR Multi-agent Driving Simulator Platform Integrated with Microsimulation, 2021
4. First prize, 2020 Big Data Analysis and Idea Contest, Cho, W., Oh, T., Han, J

PROFESSIONAL LICENSE

Engineer Transportation (National Technical Qualification Certificate in Korea : 14201080464U)

14/01/2026   Signature: