Hsuan-Chih Wang

# Personal Contact Information

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| **Email:** [transport.hcwang@gmail.com](mailto:transport.hcwang@gmail.com) **Personal website:** <https://wangtechlab.com/> |

# Education

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| **Sep. 2018 – Aug. 2020:** Master’s degree in Transportation and Communication Management Science, National Cheng Kung University, Tainan, Taiwan |
| **Sep. 2014 – June. 2018:** Bachelor’s degree in Transportation and Communication Management Science, National Cheng Kung University, Tainan, Taiwan |

# Experience

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| **Sep. 2023 – Current:** Graduate Research Assistant, Civil and Environmental Engineering (Transportation Engineering Track), University of Maryland, USA.   * ***Project: “Integrated Intelligent Intersection Control System (III-CS) system”***   + Developed safety-based smart traffic signals considering (1) conflicts between right-turn vehicles, (2) collisions involving left-turn and opposing through vehicles, and (3) multi-class vehicle dilemma zones. * ***Project: “CHART Annual and Monthly Performance Evaluation”***   + Performed data analysis to evaluate the performance of the Maryland Coordinated Highways Action Response Team (CHART) program.   **Jan. 2023 – June. 2023:** Research Assistant, Transportation Research Center, National Yang Ming Chiao Tung University, Taipei City, Taiwan   * ***Project: “A Study on Freeway Traffic Accident Prediction and Emergency Management in Taiwan”***   + Developed statistical methods to predict the likelihood of traffic accidents on freeways. |
| **Sep. 2021 - Jan. 2023:** Associate Researcher, Intelligent Transportation System Center, China Engineering Consultants. Inc, Taipei City, Taiwan   * ***Project: “Aberrant Driving Behavior Analysis and Driving Risk Level Assessment for Intercity Busses”***   + Led four graduate-level interns in exploring dangerous freeway stretches by analyzing the driving behavior records of 101 drivers on ten intercity bus routes over a three-month period * ***Project: “Technical Consulting and Management for Intelligent Transportation Systems (ITS) Development and Vehicle Safety Regulations”***   + Gathered and organized prominent ITS projects in the U.S. and the EU, providing the resultsto the Ministry of Transportation and Communication of Taiwan |
| **Jan. 2021 - Sep. 2021:** Research Assistant, Research Center for Smart City Transportation and Network Services, National Cheng Kung University, Tainan City, Taiwan   * ***Project: “V2X-based Multi-modal Traffic Signal Priority System in Tainan City”***   + Designed and implemented core signal priority strategies for 21 signalized intersections,reducing bus travel time by, on average, 12% and reducing emergency vehicle stop times by51%, according to the field survey. |

# Awards and honors

• **2023-2025** Government scholarships for study abroad - from the Taiwanese Ministry of Education  
• **2023-2024** Dean’s Fellowship - in University of Maryland

• **2019** Ding-Xin Liu Dean's Award (four students are awarded per academic year)

• **2019** Academic Excellence Award (top 5% in academic performance among 50 students per academic year)

• **2018** Outstanding Graduate Commendation Award (two department graduates are recognized per year for excellent academic performance and outstanding contributions to department affairs)