

Sungho Lim

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PROFESSIONAL EXPERIENCE

Graduate Student Research Assistant, Civil and Environmental Engineering, University of Michigan	Aug. 2023 – present
Researcher, Institute of Urban Science, University of Seoul	Jan. 2023 – Jul. 2023
International Research Assistant, Intelligent Transportation Systems Lab, University of Windsor	Nov. 2021 – May 2022
Graduate Student Research Assistant, Intelligent Transportation Systems Lab, University of Seoul	Feb. 2020 – Oct. 2021
Transit Card Data Analyst, Songpa-gu Office, Seoul Metropolitan Government	Nov. 2018 – Jan. 2019
Undergraduate Research Assistant, Transportation Logistics Lab, University of Seoul	Jul. 2017 – Sep. 2017

EDUCATION

Ph.D., Civil Engineering (<i>Next Generation Transportation Systems</i>), University of Michigan Advised by Dr. F. Atiyya Shaw	2023 – present
M.Sc., Transportation Engineering, University of Seoul Advised by Dr. Dongmin Lee	2020 – 2022
B.Sc., Transportation Engineering and Statistics (<i>Double Major, Cum Laude</i>), University of Seoul	2014 –2020

RESEARCH INTEREST

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- Data Mining Applied to Urban Passive Data Stream and Multimodal Transportation Systems
 - Methodological Approaches for Data Stream Integration and Utilization in Urban Contexts

SELECTED AWARDS & HONORS

Mitacs Globalink Research Award	2021
Korean Society of Transportation Presidential Award	2020
Minister's Award in the 8 th National Transportation Data Utilization Contest	2019
Best Undergraduate Paper Award in Korea Institute of Intelligent Transport Systems Fall Conference	2019
Gold Award in University of Seoul Big Data Linkage Analysis Competition	2019
Scholarship for Excellent Achievement	2014–15, 17–19

REFEREED JOURNAL ARTICLES

Accepted:

- J1. **Lim, S.**, H. Ahn, S. Shin, D. Lee, and Y.H. Kim. (2024). "Investigating Night Shift Workers' Commuting Patterns Using Passive Mobility Data." *Transportation Research Part A: Policy and Practice*, 181, 104002. DOI: <https://doi.org/10.1016/j.tra.2024.104002>
- J2. Tamakloe, R., **S. Lim**, E.F. Sam, S.H. Park, and D. Park. (2021). "Investigating Factors Affecting Bus/Minibus Accident Severity in a Developing Country for Different Subgroup Datasets Characterized by Time, Pavement, and Light Conditions." *Accident Analysis and Prevention*, 159, 106268. DOI: <https://doi.org/10.1016/j.aap.2021.106268>

THESES

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- T1. **Lim, S.** "Development of Shared E-scooter Rebalancing Efficiency Indexes Considering E-scooter Usage Behavior." M.S. Thesis, Urban Science College, University of Seoul, Seoul, South Korea, February 2022.

REFEREED CONFERENCE PAPERS AND PRESENTATIONS

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- C1. **Lim, S.**, F. A. Shaw, and M. Z. Li. "Who Experiences Flight Delay? Ground to Air Data Integration for Human-Centered Performance Measures." 17th International Conference on Travel Behavior Research, July 2024.

- C2. Ahn, H., **S. Lim**, S. Shin, and Y.H. Kim. "Analysis of the Reverse Trip Directions of Overnight Workers from Smart Card Data." Presented at the 57th Annual meeting of the Canadian Transportation Research Forum, Montreal, Quebec, June 2022.
- C3. Ahn, H., **S. Lim**, and Y.H. Kim. "The Impact of Curfew on Transit Demand and In-Vehicle Density." Proceedings of the Canadian Society of Civil Engineering Annual Conference 2022, Canadian Society for Civil Engineering, Whistler, British Columbia, May 2022. DOI: https://doi.org/10.1007/978-3-031-34027-7_50

OTHER PODIUM PRESENTATIONS, POSTERS, & WEBINARS (*abstract refereed)

- P1. ***Lim. S.**, M. Z. Li, F. A. Shaw. "From Ground to Air: Data Integration for a Human-Centric Multimodal Transportation Study" 104th Annual Meeting of the Transportation Research Board, National Research Council, Washington D.C., January 2025. (*poster presentation*)
- P2. **Lim, S.** "Utilizing ChatGPT for research productivity." Korea Institute of Civil Engineering and Building Technology, July 2023. (*presented by S. Lim*)
- P3. ***Lim. S.**, H. Ahn, S. Shin, D. Lee, and Y.H. Kim. "Identifying Commuting Patterns of Night Shift Workers from Mobility Dataset." 102th Annual Meeting of the Transportation Research Board, National Research Council, Washington D.C., January 2023. (*poster presentation*)
- P4. ***Lim, S.**, N. Kim, S. Kim, D. Lee. "Evaluating the Effectiveness of Micro-Electric Vehicle in Transportation and Logistics through Demonstration." Presented at the 2021 Spring Conference of the Korea Institute of Intelligent Transport Systems. Gangneung, South Korea, 2021. (*presented by S. Lim*)
- P5. ***Lim, S.**, D. Kim, D. Lee. "Speed Characteristics of E-bicycle and E-scooter in Sloped Bicycle Path: Experimental Results." Presented at the 2021 Spring Conference of the Korea Institute of Intelligent Transport Systems. Gangneung, South Korea, 2021. (*presented by S. Lim*)
- P6. **Lim, S.**, Y. Jung, Y. Kim. "How to Improve Seoul City's Late-Night Bus Network: Based on the Usage Behavior of Seoul Late-Night Bus Riders." Presented at the undergraduate student session of the 2019 Fall Conference of the Korea Institute of Intelligent Transport Systems. Gangneung, South Korea, 2019. (*presented by S. Lim*)

PARTICIPATED PROJECT & REPORTS

- R1. Strategy Development for Responding Personal Mobility Regulations and Providing Personal Mobility Friendly Roadway Environment, *The Road Traffic Authority*, South Korea, November 2023.
- R2. Roundabout Geometric Design Guideline revision, *Ministry of Land, Infrastructure and Transport*, South Korea, November 2021.
- R3. Electric Bicycle and Electric Scooter Regulation Free Zone Demonstration Support, *Korea Conformity Laboratories*, May 2021.
- R4. Evaluation Method Development for Elder Driver's Driving Ability Based on Information and Communication Technology, *National Research Foundation of Korea*, South Korea, July 2021.
- R5. Promoting Micro-Electric Vehicles and Related Businesses Through Service Demonstration, *Ministry of Trade, Industry and Energy*, South Korea, Nov 2020.

TEACHING EXPERIENCE

Teaching Assistant, Transportation Studies and Practice College of Urban Science, University of Seoul	Fall 2020
Teaching Assistant, Transportation Programming College of Urban Science, University of Seoul – Conducted weekly lab sessions (20+ students); graded assignments and quizzes	Spring 2020

RESEARCH MENTORSHIP EXPERIENCE (*CV contains papers with this student)

*Seungchul Shin University of Seoul Graduate Student Research Assistant (M.Sc. Student)	May. 2021 – Jul. 2023
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LEADERSHIP & SERVICE

Ad hoc Paper/Proposal Reviewer

Transportation Research Board Annual Meetings	2024
International Conference on Travel Behavior Research	2023

OUTREACH PROGRAM INVOLVEMENT

Graduate Study Abroad Mentorship

2023

Extracurricular Career Seminar, University of Seoul

- Guided undergraduate and graduate students the process of applying to foreign graduate school
- Mentored students in preparing graduate studies application

TECHNICAL EXPERIENCE AND SKILLS

- Programming language: R, Python
- Statistical and data visualization software: SAS, QGIS

REFERENCES

F. Atiyya Shaw, Ph.D.

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