

# Reuben Tamakloe, PhD

## Research Assistant Professor

The Cho Chun Shik Graduate School of Mobility,  
Korea Advanced Institute of Science and Technology (KAIST)  
Munji-ro 193, Yuseong-gu, Daejeon, 34051, South Korea

Email: [drtamakloe@kaist.ac.kr](mailto:drtamakloe@kaist.ac.kr) Website: <https://drtamakloe.github.io/> Telephone: +82-10-2913-9867

Google Scholar: <https://scholar.google.com/citations?user=2V3gP2EAAAAAJ&hl=en&oi=ao>

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### EDUCATION

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| <b>University of Seoul</b><br><i>Doctor of Philosophy in Transportation Engineering (Smart cities minor)</i> | Seoul, South Korea<br>Sep 2017 – Feb 2022 |
| <b>University of Ghana</b><br><i>Bachelor of Science in Statistics with Mathematics</i>                      | Accra, Ghana<br>Aug 2010 – Jul 2014       |

### ACADEMIC APPOINTMENTS

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| <b>Korea Advanced Institute of Science and Technology (KAIST)</b><br><i>Research Assistant Professor</i> | Daejeon, South Korea<br>Sep 2023 – Present   |
| <b>New York University (NYU Tandon)</b><br><i>Visiting Postdoctoral Fellow</i>                           | New York, USA<br>07 July 2024 – 27 July 2024 |
| <b>University of Seoul</b><br><i>Research Professor</i>  | Seoul, South Korea<br>Apr 2022 – Aug 2023    |

### RESEARCH INTERESTS

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Traffic safety, applications of statistical methods and machine learning/artificial intelligence tools  
Connected and autonomous vehicles, electric vehicles  
Simulator experiments, human factors, human-centered design  
Travel behavior, transport policy

### AWARDS

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#### Research Projects/Grants

| <i>Awarding Institution</i>   | <i>Research Project/ Conference Name</i>  | <i>Grant Amount</i>                    | <i>Duration/Year</i> |
|---|---|--|----------------------|
| <i>National Research Foundation (NRF; South Korea)</i>                                | <i>Metaverse-based Testbed Augmentation &amp; Development and Proof of Mixed Traffic Control Strategies (Co-Investigator)</i>                             | <i>KRW 900,000,000 (~ US\$670,000)</i> | <i>2024-2027</i>     |
|   | <i>Exploring the overall efficiency improvement potential of including shared autonomous vehicles in public transit networks (Principal Investigator)</i> | <i>KRW 210,000,000 (~ US\$156,000)</i> | <i>2022-2025</i>     |
| <b>Outstanding Paper Presentation Award</b><br><i>Korea Society of Transportation</i> | <i>88th Academic Conference of the Korean Society of Transportation held at the Korea Science and Technology Hall, South Korea</i>                        | <i>N/A</i>                             | <i>2023</i>          |

**Research Projects/Grants (Continued)**

| <i>Awarding Institution</i>  | <i>Research Project/<br/>Conference Name</i> | <i>Grant/</i> | <i>Grant Amount</i> | <i>Duration/Year</i> |
|--|--|---------------|---------------------|----------------------|
| <b>Best Paper Award for Graduate Students</b><br><i>University of Seoul<br/>Industry-Academic<br/>Cooperation<br/>Foundation</i>       | <i>N/A</i>                                   |               | <i>N/A</i>          | 2022, 2021           |
| <b>Excellent Thesis Support for Graduate Students</b><br><i>University of Seoul</i>  | <i>N/A</i>                                   |               | <i>N/A</i>          | 2021                 |
| <b>University of Seoul Smart City Department Scholarship</b><br><i>Smart City<br/>Department,<br/>University of Seoul</i>              | <i>N/A</i>                                   |               | <i>N/A</i>          | 2020                 |
| <b>Travel grant for conference attendance (ITS World Congress – Singapore)</b><br><i>National Research<br/>Foundation of<br/>Korea</i> | <i>N/A</i>                                   |               | <i>N/A</i>          | 2019                 |
| <b>University of Seoul International Student Scholarship</b><br><i>University of Seoul</i>   | <i>N/A</i>                                   |               | <i>N/A</i>          | 2017-2020            |
| <b>University of Seoul International Student Scholarship</b><br><i>University of Seoul</i>   | <i>N/A</i>                                   |               | <i>N/A</i>          | 2017-2020            |
| <b>Graduate Student Scholarship</b><br><i>Dongil Engineering<br/>and Consultants<br/>Limited</i>                                       | <i>N/A</i>                                   |               | <i>N/A</i>          | 2017-2021            |
| <b>University of Ghana Scholarship Recipient</b><br><i>University of Ghana<br/>Student Financial<br/>Aid Office</i>                    | <i>N/A</i>                                   |               | <i>N/A</i>          | 2013                 |

**TEACHING EXPERIENCE**

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|---|--------------------|
| <b>University of Seoul</b>  | Seoul, South Korea |
| <b>Department of Transportation Engineering</b>                               |                    |
| Logistics Management (Undergraduate course – 3 credits)                       | Spring 2023        |
| Introduction to Transportation Engineering (Undergraduate course – 3 credits) | Spring 2023        |
| Big Data Analysis in Transportation (Undergraduate course – 3 credits)        | Fall 2022          |
| Advanced Discrete Choice Model I (Graduate course – 3 credits)                | Fall 2022          |

## PUBLICATIONS

### *Selected Published Journal Articles (\*Corresponding Author)*

**Transportation Research Part D: Transport and Environment** [SSCI, Q1, IF: = 7.3, 5/57 (WoS Transportation Category)]

- [37] **Tamakloe, R.**, Hong, J., Tak, J., & \*Park, D. (2021). Finding evacuation routes using traffic and network structure information. *Transportation research part D: transport and environment*, 95, 102853. <https://doi.org/10.1016/j.trd.2021.102853>

**Transport Policy** [SSCI, Q1, IF: = 6.3, 6/57 (WoS Transportation Category)]

- [36] \***Tamakloe, R.**, Zhang, K., Atandzi, J., & Park, D. (2024). Examining urban delivery service user profiles and determinants of drone delivery adoption in Ghana considering usage before and after the COVID-19 pandemic. *Transport Policy*. <https://doi.org/10.1016/j.tranpol.2023.12.004>
- [35] \***Tamakloe, R.**, & Park, D. (2023). Discovering latent topics and trends in autonomous vehicle-related research: A Structural Topic Modelling approach. *Transport Policy*. <https://doi.org/10.1016/j.tranpol.2023.06.001>

**Transportation Research Part A: Policy and Practice** [SSCI, Q1, IF: = 6.3, 6/57 (WoS Transportation Category)]

- [34] \***Tamakloe, R.**, & Caesar, L. D. (2024). Decoding the patterns of critical factor associations driving electric vehicle recommendations. *Transportation Research Part A: Policy and Practice*, 187, 104171. <https://doi.org/10.1016/j.tra.2024.104171>

**Cities** [SSCI, Q1, IF: = 6.0, 5/77 (WoS Urban Studies Category)]

- [33] \***Tamakloe, R.**, Lee, J., & Park, D. (2024). Efficiency variations of integrated urban transit stations before and during the COVID-19 pandemic: Insights from a Mega-City without pandemic lockdown measures. *Cities*, 152, 105196. <https://doi.org/10.1016/j.cities.2024.105196>
- [32] **Tamakloe, R.**, \*Hong, J., & Tak, J. (2021). Determinants of transit-oriented development efficiency focusing on an integrated subway, bus and shared-bicycle system: Application of Simar-Wilson's two-stage approach. *Cities*, 108, 102988. <https://doi.org/10.1016/j.cities.2020.102988>

**Accident Analysis & Prevention** [SSCI, Q1, IF: = 5.7, 9/57 (WoS Transportation Category)]

- [31] **Tamakloe, R.**, Zhang, K., & \*Kim, I. (2024). Temporal instability of the determinants of fatal/severe elderly pedestrian injury outcomes in intersections and non-intersections before, during, and after the COVID-19 pandemic. *Accident Analysis & Prevention*, 205, 107676. <https://doi.org/10.1016/j.aap.2024.107676>
- [30] **Tamakloe, R.**, Zhang, K., Hossain, A., Kim, I., & \*Park, S. H. (2024). Critical risk factors associated with fatal/severe crash outcomes in personal mobility device rider at-fault crashes: A two-step inter-cluster rule mining technique. *Accident Analysis & Prevention*. <https://doi.org/10.1016/j.aap.2024.107527>
- [29] 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. <https://doi.org/10.1016/j.aap.2024.107750>
- [28] \***Tamakloe, R.**, Adanu, E. K., Atandzi, J., Das, S., Lord, D., & Park, D. (2023). Stability of factors influencing walking-along-the-road pedestrian injury severity outcomes under different lighting conditions: a random parameters logit approach with heterogeneity in means and out-of-sample predictions. *Accident Analysis & Prevention*. <https://doi.org/10.1016/j.aap.2023.107333>
- [27] **Tamakloe, R.**, Das, S., Aidoo, E. N., & \*Park, D. (2022). Factors affecting motorcycle crash casualty severity at signalized and non-signalized intersections in Ghana: Insights from a data mining and binary logit regression approach. *Accident Analysis & Prevention*, 165, 106517. <https://doi.org/10.1016/j.aap.2021.106517>
- [26] \*Das, S., **Tamakloe, R.**, Zubaidi, H., Obaid, I., & Alnedawi, A. (2021). Fatal pedestrian crashes at intersections: Trend mining using association rules. *Accident Analysis & Prevention*, 160, 106306. <https://doi.org/10.1016/j.aap.2021.106306>
- [25] **Tamakloe, R.**, Lim, S., Sam, E. F., Park, S. H., & \*Park, D. (2021). Investigating factors affecting bus/minibus accident severity in a developing country for different subgroup datasets characterised by time, pavement, and light conditions. *Accident Analysis & Prevention*, 159, 106268. <https://doi.org/10.1016/j.aap.2021.106268>

### *Selected Published Journal Articles (Continued)*

- [24] **Tamakloe, R.**, Hong, J., & \*Park, D. (2020). A copula-based approach for jointly modeling crash severity and number of vehicles involved in express bus crashes on expressways considering temporal stability of data. *Accident Analysis & Prevention*, 146, 105736. <https://doi.org/10.1016/j.aap.2020.105736>
- [23] Hong, J., **Tamakloe, R.**, & \*Park, D. (2020). Application of association rules mining algorithm for hazardous materials transportation crashes on expressway. *Accident Analysis & Prevention*, 142, 105497. <https://doi.org/10.1016/j.aap.2020.105497>

### *Marine Policy* [SSCI, Q1, IF: = 3.5, 12/165 (WoS International Relations Category)]

- [22] Caesar, D. L., & \***Tamakloe, R.** (2024). Unraveling the Patterns of Critical Contributory Factors and Flag-State Associations Influencing Maritime Casualties: An Association Rule Mining Approach. *Marine Policy*. <https://doi.org/10.1016/j.marpol.2024.106135>

### *Other Publications (\*Corresponding Author)*

- [21] **Tamakloe, R.**, & \*Adanu, E. K. (2024). Critical patterns associated with vehicle-pedestrian hit-and-run casualty injury severity under different weather conditions: An association rule mining approach. *IATSS Research*. <https://doi.org/10.1016/j.iatssr.2024.06.003>
- [20] \*Chengula, T. J., Kutela, B., Novat, N., Shita, H., Kinero, A., **Tamakloe, R.**, & Kasomi, S. (2024). Spatial instability of crash prediction models: A case of scooter crashes. *Machine Learning with Applications*, 17, 100574. <https://doi.org/10.1016/j.mlwa.2024.100574>
- [19] \*Adanu, E. K., **Tamakloe, R.**, Dzinyela, R., & Agyemang, W. (2024). Assessing the factors associated with pedestrian injury severity in hit-and-run crashes in Ghana. *Transportation Letters*, 1-11. <https://doi.org/10.1080/19427867.2024.2366730>
- [18] \***Tamakloe, R.**, Das, S., Adanu, E. K., & Park, D. (2023). Key factors affecting motorcycle-barrier crash severity: an innovative cluster-regression technique. *Transportmetrica A: Transport Science*. <https://doi.org/10.1080/23249935.2023.2230310>
- [17] \*Zubaidi, H., **Tamakloe, R.**, Al-Bdairi, N. S. S., \*Alnedawi, A., & Obaid, I. (2022). Exploring senior motorcyclist injury severity crashes: Random parameter model with heterogeneity in mean and variance. *IATSS Research*. <https://doi.org/10.1016/j.iatssr.2022.12.001>
- [16] \*Das, S., Dutta, A., **Tamakloe, R.**, & Khan, M. N. (2023). Analyzing the time-varying patterns of contributing factors in work zone-related crashes. *Journal of Transportation Safety & Security*. <https://doi.org/10.1080/19439962.2023.2246020>
- [15] \***Tamakloe, R.** (2023). Risk Factors Influencing Fatal Powered Two-Wheeler At-Fault and Not-at-Fault Crashes: An Application of Spatio-Temporal Hotspot and Association Rule Mining Techniques. *Informatics*. <https://doi.org/10.3390/informatics10020043>
- [14] \*Das, S., **Tamakloe, R.**, Zubaidi, H., Obaid, I., & Rahman, M. A. (2023). Bicyclist injury severity classification using a random parameter logit model. *International Journal of Transportation Science and Technology*. <https://doi.org/10.1016/j.ijst.2023.02.001>
- [13] **Tamakloe, R.**, & \*Park, D. (2022). Factors influencing fatal vehicle-involved crash consequence metrics at spatio-temporal hotspots in South Korea: application of GIS and machine learning techniques. *International Journal of Urban Sciences*, 1-35. <https://doi.org/10.1080/12265934.2022.2134182>
- [12] **Tamakloe, R.**, Park, D., & \*Chang, H. (2022). Discovering research topics, trends, and perspectives in COVID-19-related transportation journal articles. *International Journal of Urban Sciences*, 26(4), 710-738. <https://doi.org/10.1080/12265934.2022.2044891>
- [11] **Tamakloe, R.**, Hong, J., Kim, J., & \*Park, D. (2022). Factors affecting fatal PTW at-fault crash outcome metrics at intersections and non-intersections in South Korea. *Journal of Transportation Safety & Security*, 1-36. <https://doi.org/10.1080/19439962.2022.2123582>
- [10] \*Das, S., **Tamakloe, R.**, Kutela, B., & Hossain, A. (2022). Pattern recognition from injury severity types of frontage roadway crashes. *Journal of Transportation Safety & Security*, 1-22. <https://doi.org/10.1080/19439962.2022.2123581>
- [9] **Tamakloe, R.**, Sam, E. F., Bencekri, M., Das, S., & \*Park, D. (2022). Mining groups of factors influencing bus/minibus crash severities on poor pavement condition roads considering different lighting status. *Traffic injury prevention*, 23(5), 308-314. <https://doi.org/10.1080/15389588.2022.2066658>

### Other Publications (Continued)

- [8] \*Obaid, I., Alnedawi, A., Aboud, G. M., **Tamakloe, R.**, Zubaidi, H., & Das, S. (2022). Factors associated with driver injury severity of motor vehicle crashes on sealed and unsealed pavements: random parameter model with heterogeneity in means and variances. *International journal of transportation science and technology*. <https://doi.org/10.1016/j.ijtst.2022.04.002>
- [7] **Tamakloe, R.**, & \*Hong, J. (2020). Assessing the efficiency of integrated public transit stations based on the concept of transit-oriented development. *Transportmetrica A: Transport Science*, 16(3), 1459-1489. <https://doi.org/10.1080/23249935.2020.1753849>
- [6] Hong, J., **Tamakloe, R.**, Tak, J., & \*Park, D. (2020). Two-Stage Double Bootstrap Data Envelopment Analysis for Efficiency Evaluation of Shared-Bicycle Stations in Urban Cities. *Transportation Research Record*, 2674(6), 211-224. <https://doi.org/10.1177/0361198120918568>
- [5] Hong, J., **Tamakloe, R.**, & \*Park, D. (2020). Discovering insightful rules among truck crash characteristics using apriori algorithm. *Journal of advanced transportation*, 2020, 1-16. <https://doi.org/10.1155/2020/4323816>
- [4] Hong, J., **Tamakloe, R.**, Lee, S., & \*Park, D. (2019). Exploring the topological characteristics of complex public transportation networks: focus on variations in both single and integrated systems in the Seoul metropolitan area. *Sustainability*, 11(19), 5404. <https://doi.org/10.3390/su11195404>
- [3] Hong, J., **Tamakloe, R.**, & \*Park, D. (2019). A comprehensive analysis of multi-vehicle crashes on expressways: a double hurdle approach. *Sustainability*, 11(10), 2782. <https://doi.org/10.3390/su11102782>
- [2] Hong, J., **Tamakloe, R.**, Lee, G., & \*Park, D. (2019). Insight from scientific study in logistics using text mining. *Transportation research record*, 2673(4), 97-107. <https://doi.org/10.1177/0361198119834905>
- [1] Hong, J., **Tamakloe, R.**, \*Park, D., & Choi, Y. (2019). Estimating incident duration considering the unobserved heterogeneity of risk factors for trucks transporting HAZMAT on expressways. *Transportation research record*, 2673(2), 232-242. <https://doi.org/10.1177/0361198119827925>

### Selected Journal Papers Under Review (SCI(E))

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\*Corresponding Author

- [4] **Tamakloe, R.**, Khorasani, M., \*Kim, I. (2024). Differences in At-Fault Crash Injury Severities Between Elderly and Non-Elderly Taxi Drivers: Temporal Instability and Out-of-Sample Prediction. *Accident Analysis and Prevention*
- [3] **Tamakloe, R.**, Das, S., \*Kim, I. (2024). Differences in pedestrian injury severities in hit-and-run crashes across seasons: accounting for out-of-sample prediction and seasonal instability. *Journal of Traffic and Transportation Engineering*
- [2] **Tamakloe, R.**, Khorasani, M., Das, S., \*Kim, I. (2024). Comparative Analysis of Risk Patterns in Homogeneous Groups of Crashes Involving Different Advanced Driving Technologies. *Transportation Research Record*
- [1] Zhang, K., **Tamakloe, R.**, \*Kim, I. (2024). Exploring Fatal/Severe Pedestrian Injury Crash Frequency at School Zone Crash Hotspots Considering Micro-level Street Environment with Interpretable Machine Learning. *Journal of Transport Geography (Revision Decision: April 9, 2024)*

### CONFERENCE PRESENTATIONS

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#### Invited Guest Lecturer

[1] **New York University, New York, USA** (25 July 2024)

Leveraging artificial intelligence to improve safety for personal mobility device users.

[2] **New York University, New York, USA** (23 July 2024)

Can we improve the efficiency of public transport systems by integrating shared autonomous shuttles into them?

[3] **Korea Advanced Institute of Science and Technology, Daejeon, South Korea** (12 October 2023)

Discovering the factors influencing shared autonomous vehicle adoption: A cross-group analysis considering local ride-sharing access and historical usage experience.

### ***International Presentations***

#### **ICTCT 2024, Hague, Netherlands (17-18 Oct. 2025 - planned)**

- [18] Factors Influencing Injury Severity Among Elderly Pedestrians - Insights from Urban Imagery and Explainable Machine Learning
- [17] Differences between pedestrian injury severity determinants at school and non-school zones: new findings from streetscape quality factors
- [16] Variability in the impact of factors influencing elderly pedestrian injuries in crashes at intersections and non-intersections before, during, and after the COVID-19 pandemic
- [15] The Role of Human Subjective Perceptions and Objective Measurements of the Urban Environment in Explaining Pedestrian Injury Severity

#### **The TRB 103rd Annual Meeting - Transportation Research Board Annual Meeting, Washington DC, USA (7-11 Jan. 2024)**

- [14] Investigating the Performance of Integrated Transit Stations: A Comparative Study in a Mega-City Before and During the COVID-19 Pandemic
- [13] Discovering the Factors Influencing Shared Autonomous Vehicle Adoption: A Cross-Group Analysis Considering Local Ridesharing Access and Historical Experience
- [12] Understanding Consumers Prioritizing Incentives in Electric Vehicle Purchases: Identifying Patterns for Effective Policy Strategies
- [11] Uncovering Individual Heterogeneity in Pedestrian Crash Severity with Mixed Logit Models
- [10] Investigating Critical Factor Associations Affecting Injury Severity Outcomes of Passengers Falling from Moving Vehicles
- [9] Investigating Crashes Occurred at School Zones Using Random Parameter Ordered Probit Model
- [8] Patterns of Critical Factors Linked to Automated Vehicle–Involved Crashes: A Comparative Analysis of Intersection and Non-Intersection Crash Scenarios

#### **The TRB 102nd Annual Meeting - Transportation Research Board Annual Meeting, Washington DC, USA (8-12 Jan. 2023)**

- [7] Qualitative Analysis of Urban Air Mobility as a Disruptive Technology
- [6] Perceptions of Drone Delivery Adoption in Ghana Considering Online Delivery Usage Before and After the Incidence of the COVID-19 Pandemic
- [5] Risk Factors Affecting Motorcycle-Barrier Crashes and Injury Severities: Insights from an Innovative Cluster-Regression Technique

#### **The TRB 101st Annual Meeting - Transportation Research Board Annual Meeting, Washington DC, USA (9-13 Jan. 2022)**

- [4] Investigating Chains of Risk Factors Influencing Fatal Powered Two-Wheeler Crashes at Spatio-Temporal Hotspot Locations in South Korea
- [3] Investigating Chains of Factors Influencing Motorcycle Crash Casualty Severity at Signalized and Non-Signalized Intersections in a Developing Country

#### **26th ITS World Congress, Suntec Conference Center, Suntec, Singapore (21-25 Oct. 2019)**

- [2] Assessing the impacts of Land Use on Subway Ridership: Identifying a Suitable Sustainable Transport Policy

#### **The 13th UC-US-KU-TU International Joint Seminar, China and France Center, Tongji University, Shanghai, China (24 Aug. 2018)**

- [1] An Analysis of Bus-involved Crashes on Expressway through Conditional Mixed Process

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### ***Local presentations (South Korea)***

#### ***\*Student supervisions***

- [20] \* Analysis of subway station operation efficiency and review of environmental factors impact: Focusing on Seoul Metropolitan City (2023.11). Korean Institute of ITS Conference, Jeju, South Korea.
- [19] \* Review of previous research on passenger-logistics integrated transportation system and suggestion of future research direction (2023.11). Korean Institute of ITS Conference, Jeju, South Korea.
- [18] Road lighting condition, pedestrian maneuver and pedestrian injury severity: A joint analysis using an advanced econometric approach (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.

### *Local presentations (Continued)*

- [17] Are electric vehicle users willing to recommend their vehicles to others? (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.
- [16] \* Investigating how usage experience impacts consumer preference variability for shared autonomous vehicles (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.
- [15] \* Learning about the variations in research interests regarding last-mile logistics among OECD and Non-OECD countries (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.
- [14] \* Hybrid delivery system: A literature review and future directions (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.
- [13] \* Trends and patterns in sustainable transportation research (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.
- [12] \* The determinants of factors affecting transit station efficiency before, during and after the COVID-19 pandemic (2023.04). Korean Institute of ITS Conference, Yeosu, South Korea.
- [11] A structural topic modeling approach to exploring autonomous vehicle-related research (2023.02). The Korean Society of Transportation Conference, Gangnam, Seoul, South Korea.
- [10] \* Variations in the determinants of bicycle-transit station efficiency pre- and post- COVID-19 pandemic (2023.02). The Korean Society of Transportation Conference, Gangnam, Seoul, South Korea.
- [9] Drone delivery for urban logistics after COVID: How can we bolster its adoption? (2022.11). Korean Institute of ITS Conference, Jeju, South Korea.
- [8] Performance of public transport stations through the pandemic: Are there any key patterns? (2022.11). Korean Institute of ITS Conference, Jeju, South Korea.
- [7] How different are researcher perspectives regarding COVID-19 and transportation? (2022.06) Korean Institute of ITS Conference, Jeju, South Korea.
- [6] A machine learning approach to identifying factors influencing motorcycle crashes at critical hotspot locations (2022). KITS International Conference, Jeju JDC Conference Center, Jeju, South Korea.
- [5] Finding evacuation paths considering dynamic spatio-temporal vulnerability information and network structure (2020.11). The Korean Institute of ITS Conference, Online.
- [4] An Application of Simar-Wilson Bootstrap Data Envelopment Analysis to Investigate the Efficiency of Shared-Bicycle Stations in Seoul (2019.11). The Korean Institute of ITS Conference, St. John's Hotel, Gangneung, South Korea.
- [3] Topological Analysis of Multimodal Transportation Network in Seoul Based on Graph-Based Methods (2019.04). The Korean Institute of ITS Conference, Halla Convention center, Cheju Halla University, Jeju, South Korea.
- [2] Comparing the characteristics of multivehicle crashes using Cragg's double-hurdle regression model (2018.11). The Korean Institute of ITS Conference, The Genesis Building, Kyungsung University, Busan, South Korea.
- [1] A Study for Conditional Mixed Process Model of Bus-related Crashes on Expressway (2018.04). The Korean Institute of ITS Conference, Halla Convention center, Cheju Halla University, Jeju, South Korea.

### **ACTIVE REVIEWING SERVICE**

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Accident Analysis and Prevention

Transport Policy

Cities

Transportation Research Part A: Policy and Practice

Transportation Research Part D: Transport and Environment

Transportation Research Part E: Logistics and Transportation Review

Transportation Research Part F: Traffic Psychology and Behaviour

Journal of Transport Geography

Travel Behaviour and Society

Case Studies on Transport Policy

Transportation Research Interdisciplinary Perspectives

IATSS Research

Transportmetrica A: Transport Science

Traffic Injury Prevention  
Transportation Research Record: Journal of the Transportation Research Board  
KSCE Journal of Civil Engineering  
International Journal of Urban Sciences  
International Journal of Sustainable Transportation

#### **ACADEMIC MEMBERSHIPS**

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Korean Transportation Association  
Ghana Transportation Professionals Forum  
KSCE CELeN Student  
Korean Society of Hazard Mitigation  
Korea Institute of Intelligent Transport Systems

#### **VOLUNTEER AND EXTRA-CURRICULAR ENGAGEMENTS**

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|   |                     |
|---|---------------------|
| <b>New Student Mentoring Volunteer</b> – International Student Office, Univ. of Seoul                           | Jan 2021 – Jun 2021 |
| <b>Organizing Secretary</b> – Ghanaian Students in Korea and Associates, South Korea                            | 2020 – Present      |
| <b>University Representative (University of Seoul)</b> – Ghanaian Students in Korea and Associates, South Korea | 2019 – 2020         |
| <b>Leader, Program Planning Team</b> – Ghana Association of Statistics Students, University of Ghana            | 2013 – 2014         |