

CURRICULUM VITAE OF PATRICK LOA, PH.D.

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PART 1 – PERSONAL INFORMATION, ACADEMIC HISTORY, EMPLOYMENT HISTORY, AND FUNDING HISTORY

PERSONAL INFORMATION

Citizenship: Canadian

Personal: Born in 1994 in Canada

Address: **Office**
341 Church Street
Toronto, ON, Canada
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Relevant links: **Google Scholar**

<https://scholar.google.com/citations?hl=en&user=C1tA9L8AAAAJ>

ResearchGate

<https://www.researchgate.net/profile/Patrick-Loa>

LinkedIn

<https://www.linkedin.com/in/patrick-loa/>

EMPLOYMENT HISTORY

- Assistant Professor | Toronto Metropolitan University Jan. 2026 – present
- Post-doctoral Researcher| University of California, Davis Dec. 2023 – Nov. 2025
 - Developed research proposals that were submitted in response to state and federal funding opportunities
 - Supervised and collaborated with students to produce scientific papers that have been published in peer-reviewed journals and presented at international research conferences
 - Mentored graduate and undergraduate students to support their professional development
- Graduate research assistant | University of Toronto Sept. 2017 – Aug. 2023
 - Completed collaborative research projects that produced scientific papers that have been published in peer-reviewed journals and presented at international research conferences
 - Designed and executed surveys to gain insights into travel behaviour and understand the use of ride-hailing services
 - Collaborated with public sector stakeholders to develop research projects to investigate policy-relevant topics
 - Mentored junior colleagues to support their professional development
- Teaching assistant | University of Toronto Sept. 2017 – Aug. 2023

- Designed tutorials to facilitate experiential learning, providing students with opportunities to gain hands-on experience applying course concepts
 - Developed problem sets and exam questions to assess the students' understanding of course material
 - Provided students with guidance and support to enhance their understanding of course material and address any challenges they encountered
- Work term student | City of Toronto Sept. 2015 – Aug. 2016
 - Analyzed automated vehicle location data to help inform transit operations planning
 - Reviewed existing standards to help inform the development of requirements for the design of transit stops and evaluation criteria for queue jump lanes
 - Assisted in the preparation of technical reports that provided background information at city council meetings

ACADEMIC HISTORY

- Doctor of Philosophy (Dec. 2023) – University of Toronto, Dept. of Civil & Mineral Engineering; Dissertation Title – *An Examination of Under-studied Aspects of Ride-sourcing Adoption and Use in Large Metropolitan Areas* (Supervisor: Dr. Khandker Nurul Habib)
- Master of Applied Science (Sept. 2019) – University of Toronto, Dept. of Civil & Mineral Engineering; Thesis Title – *Design and Implementation of Core-Satellite Structure for Urban Passenger Data* (Supervisor: Dr. Khandker Nurul Habib)
- Bachelor of Applied Science (June 2017) – University of Toronto, Division of Engineering Science; Thesis Title – *Identifying the Factors that Influence Senior Travel Behaviour* (Supervisor: Dr. Khandker Nurul Habib)

ADVANCED TRAINING

- Postdoctoral Researcher – 3 Revolutions Future Mobility Program, Institute of Transportation Studies, University of California, Davis (Dec. 2023 – present)

PROFESSIONAL PRACTICE

Recent Consulting Projects:

- Transatlantic Cooperation for Leveling Up MaaS, supervised by Dr. Giovanni Circella and Dr. Jana Sochor (in partnership with Vinnova), 2024-2025
- *Assessing Early Impacts of the Clean Miles Standard on California Ridehailing Drivers*, supervised by Dr. Giovanni Circella (in partnership with the California Air Resources Board), 2023-2025
- *Barriers to Reducing the Carbon Footprint of Transportation*, supervised by Dr. Giovanni Circella (in partnership with the California Air Resources Board), 2020-2024

- *Assessing the Competition of Transportation Network Companies (TNC) and Public Transit in the Greater Vancouver Region (GVR)*, supervised by Dr. Khandker Nurul Habib (in partnership with TransLink), 2021 – 2023
- *City of Toronto Vehicle-for-Hire (VfH) Bylaws Review*, supervised by Dr. Eric J. Miller and Dr. Khandker Nurul Habib, 2019
- *Survey Design for Active Mode Demand in the National Capital Region*, supervised by Dr. Khandker Nurul Habib, 2017 – 2019

PROFESSIONAL AFFILIATIONS

- Engineering Intern (EIT), Professional Engineers Ontario (PEO); membership number 100516780: 2017 – present

ACADEMIC ACHIEVEMENTS AND AWARDS

- Postdoctoral Fellowship from the *Natural Sciences and Engineering Research Council of Canada* (Dec. 2023 – present)
- Transportation Information Scholarship – Civil from the *Transportation Information Steering Committee* (Sept. 2019 – Aug. 2023)

INVITED PRESENTATIONS AND LECTURES

8. Invited presentation titled “Exploring Discrepancies in Incentive Familiarity Among California Ridehailing Drivers”. Invited by the 3 Revolutions Future Mobility Program. Pacific Grove, July 15, 2025.
7. Invited presentation titled “How does Post-pandemic Modality for Commuting Trips Compare to Pre-pandemic Modality in California? Evidence from a Longitudinal Survey.” Invited by the UC Davis Transit Research Center. Davis, Apr. 17, 2025.
6. Invited presentation titled “An Examination of Induced Ride-hailing Trips and the People Who Make Them”. Invited by APO20(3), the Subcommittee on Equity of the Innovative Mobility Services and Technologies Committee of the Transportation Research Board. Washington, D.C., Jan. 7, 2025.
5. Invited presentation titled “Are All Ride-hailing Trips Created Equal? An Examination of Induced Ride-hailing Trips and the Users Who Make Them”. Invited by the Sustainable Transportation Energy Pathways (STEPS) Program. Davis, Mar. 12, 2024.
4. Invited presentation titled “Examining Ride-sourcing Use in Metro Vancouver and the Potential Impacts of These Services on the Demand for Existing Modes”. Invited by the University of Toronto Institute of Transportation Engineers Student Chapter (UT-ITE). Toronto, Sept. 29, 2023.
3. Invited lecture titled “Exploring the Impacts of COVID-19 on Ride-sourcing Use in the Greater Toronto Area”. Invited by University of Nebraska – Lincoln. Lincoln, Nov. 18, 2021.
2. Invited presentation titled “Exploring the Impacts of COVID-19 on Modality Styles for Non-Mandatory Trips in the Greater Toronto Area”. Invited by the University of Toronto Institute of Transportation Engineers Student Chapter (UT-ITE). Toronto, Feb. 26, 2021.

1. Invited presentation titled “A Survey-based Study into the Impacts of COVID-19 on the Use of Ride-sourcing Sources in the GTA”. Invited by the University of Toronto Institute of Transportation Engineers Student Chapter (UT-ITE). Toronto, Oct. 23, 2020.

GRANTS, CONTRACTS, AND OTHER FUNDING

Internal Awards

1. Examining Ride-hailing Use Pre- and Post-COVID
Dec. 2023 – Nov. 2025 Co-principal Investigator
Value: 39,836 USD Source: University of California Institute of Transportation Studies

PART 2 – RESEARCH PRODUCTS

Peer-reviewed journal papers: Published or in-press	29
Peer-reviewed journal papers: Under review	6
Book chapters	1
Peer-reviewed conference presentations (full paper is reviewed)	27
Peer-reviewed conference presentations (only abstract is reviewed)	10
Technical reports	20

REFEREED JOURNAL ARTICLES

Journal Papers Published or In Press

29. **Loa, P.**, Lee, Y., Circella, G., 2025. "Examining Post-pandemic Ride-hailing Use in California and its Determinants". *Transportation Research Record (in-press)*. DOI: 10.1177/03611981251380589.
28. Mashrur, Sk. Md., **Loa, P.**, Ong, F., Habib, K.N., 2025. "Analyzing the Influence of Transit Pass Ownership on Ride-sourcing Frequency in Metro Vancouver: Implications for Policy and Urban Mobility Planning". *Transportation Research Part A*, 199: 104566. DOI: 10.1016/j.tra.2025.104566.
27. Kothawala, A., Haddad, A., **Loa, P.**, Lee, Y., Circella, G., Bhat, C. R., 2025. "Hybrid Workers' Activity Intensity: Post-Pandemic Comparison of Telework-Only and In-Person Workdays". *Transportation Research Record*, 2679(11): 260-273. DOI: 10.1177/03611981251347299.
26. Sohi, M., **Loa, P.**, Ozbilen, B., logansen, X., Lee, Y., Circella, G., 2025. "How Do E-Shopping and Built Environment Factors Affect Shopping VMT?". *Transportation Research Part D*, 139: 104567. DOI: 10.1016/j.trd.2024.104567.
25. **Loa, P.**, logansen, X., Lee, Y., Circella, G., 2025. "Not All Ride-hailing Trips Are Created Equal: An Examination of Additional Trips Enabled by Ride-hailing and the Users Who Made Them". *Transportation*. DOI: 10.1007/s11116-024-10566-6.
24. Ong, F., **Loa, P.**, Habib, K.N., 2024. "Assessing Metro Vancouver as an Emerging Market for Ride Sourcing Services: Insights into Trip Characteristics and Impacts on Multimodal Competitions". *International Journal of Sustainable Transportation*, 18(6): 505-522. DOI: 10.1080/15568318.2024.2363203.
23. **Loa, P.**, Ong, F., Habib, K.N., 2024. "How Does the Introduction of Shared Ride-sourcing Services Affect Demand for Existing Modes for Non-commuting Trips? Evidence from a Joint RP-SP Study in Metro Vancouver". *Transportation Research Record*, 2679(2): 18-32. DOI: 10.1177/03611981241257510.
22. Ong, F., **Loa, P.**, Habib, K.N., 2024. "Is it the Trip or the Trip-Maker? Modelling Factors Influencing the Demand Induced by the Availability of Ride-sourcing Services in Metro Vancouver". *Transport Policy*, 151: 110-119. DOI: 10.1016/j.tranpol.2024.04.005.
21. **Loa, P.**, Habib, K.N., 2024. "How does Public Transit Serve Post-Secondary Students in Toronto? A Utility-based Analysis of Accessibility by Transit for Discretionary Trips". *Transportation*, 52: 1657-1678. DOI: 10.1007/s11116-024-10469-6.

20. Ong, F., **Loa, P.**, Habib, K.N., 2024. "Ride-sourcing Demand in Metro Vancouver: Looking through the Lens of Disability". *Transportation Research Part A*, 118: 103984. DOI: 10.1016/j.tra.2024.103984.
19. Ong, F., **Loa, P.**, Habib, K.N., 2024. "A behavioural analysis of post-pandemic modality profiles for non-commuting trips in the Greater Toronto Area". *Travel Behaviour and Society*, 34: 100690. DOI: 10.1016/j.tbs.2023.100690.
18. **Loa, P.**, Ong, F., Hawkins, J., Habib, K.N., 2023. "Unravelling the Relationship between Ride-sourcing Services and Conventional Modes in Toronto: A Stated Preference Study in the City of Toronto". *Transport Policy*, 141: 209-220. DOI: 10.1016/j.tranpol.2023.07.022.
17. Liu, Y., **Loa, P.**, Wang, K., Habib, K.N., 2023. "Theory-driven or data-driven? Modelling ride-sourcing mode choices using integrated choice and latent variable model and multi-task learning deep neural networks". *Journal of Choice Modelling*, 48: 100431. DOI: 10.1016/j.jocm.2023.100431.
16. **Loa, P.**, Ong, F., Habib, K.N., 2023. "Identifying Profiles of Ride-sourcing Users in the Metro Vancouver Region for a Better Understanding of Ride-sourcing Behaviour". *Travel Behaviour and Society*. 33: 100637. DOI: 10.1016/j.tbs.2023.100637.
15. **Loa, P.**, Liu, Y., Ong, F., Hossain, S., Habib, K.N., 2023. "Investigating Changes in Ride-Sourcing Use during the COVID-19 Pandemic: Evidence from a Two-Cycle Survey of the Greater Toronto Area". *Journal of Transportation Engineering, Part A: Systems*, 149(9). DOI: 10.1061/JTEPBS/TEENG-7301.
14. Hossain, S., **Loa, P.**, Ong, F., Habib, K.N., 2023. "Exploring the spatiotemporal factors affecting bicycle-sharing demand during the COVID-19 pandemic". *Transportation*, 51: 1575-1610. DOI: 10.1007/s11116-023-10378-0.
13. **Loa, P.**, Ong, F., Habib, K.N., 2023. "How has Anticipated Post-pandemic Ride-sourcing Use Changed During the COVID-19 Pandemic? Evidence from a Two-cycle Survey of the Greater Toronto Area". *Transportation Research Record*, 2678(12): 402-419. DOI: 10.1177/03611981231155434.
12. **Loa, P.**, Habib, K.N., 2023. "Identifying the Determinants of Anticipated Post-pandemic Mode Choices in the Greater Toronto Area: A Stated Preference Study". *Transportation Research Record*, 2677(6): 199-217. DOI: 10.1177/03611981221145133.
11. Hossain, S., **Loa, P.**, Ong, F., Habib, K.N., 2022. "The Determinants of Commute Mode Usage Frequency of Post-Secondary Students in the Greater Toronto and Hamilton Area". *Transportation Research Part A*, 166: 164-185. DOI: 10.1016/j.tra.2022.10.010.
10. Mashrur, Sk. Md., Lavoie, B., Wang, K., **Loa, P.**, Habib, K.N., 2022. "A Joint Model of Transit Usage Frequency and in-Vehicle Safety Perception During the COVID-19 Pandemic". *Transportation Research Record*, 2678(12): 209-229. DOI: 10.1177/03611981221100241.
9. **Loa, P.**, Hossain, S., Liu, Y., Habib, K.N., 2022. "How has the COVID-19 Pandemic Affected the use of Ride-sourcing Services? An Empirical Evidence-based Investigation for the Greater Toronto Area". *Transportation Research Part A*, 115: 46-62. DOI: 10.1016/j.tra.2021.11.013. PMCID: PMC8602061.
8. Mashrur, Sk. Md., Wang, K., **Loa, P.**, Hossain, S., Habib, K.N., 2022. "Application of Protection Motivation Theory to quantify the impact of pandemic fear on anticipated post-pandemic

- transit usage". *Transportation Research Record*, 2677(4): 267-286. DOI: 10.1177/03611981211065439.
7. **Loa, P.**, Mashrur, Sk. Md., Habib, K.N., 2021. "What influences the substitution of ride-sourcing for public transit and taxi services in Toronto? An exploratory structural equation model-based study". *International Journal of Sustainable Transportation*, 17(1): 15-28. DOI: 10.1080/15568318.2021.1978018.
 6. Wang, K., Liu, Y., Mashrur, Sk. Md., **Loa, P.**, Habib, K.N., 2021. "COVid-19 influenced Households' Interrupted Travel Schedules (COVHITS) Survey: Lessons from the Fall 2020 Cycle". *Transport Policy*, 112: 43-62. DOI: 10.1016/j.tranpol.2021.08.009. PMCID: PMC8376120.
 5. **Loa, P.**, Hossain, S., Mashrur, Sk. Md., Liu, Y., Wang, K., Ong, F., Habib, K.N., 2021. "Exploring the Impacts of the COVID-19 Pandemic on Modality Profiles for Non-Mandatory Trips in the Greater Toronto Area". *Transport Policy*, 110: 71-85. DOI: 10.1016/j.tranpol.2021.05.028. PMCID: PMC8481204.
 4. **Loa, P.**, Hossain, S., Liu, Y., Habib, K.N., 2021. "How have Ride-sourcing Users Adapted to the First Wave of the COVID-19 Pandemic? Evidence from a Survey-based Study of the Greater Toronto Area". *Transportation Letters*, 13(5-6): 404-413. DOI: 10.1080/19427867.2021.1892938.
 3. Habib, K.N., Hawkins, J., Shakib, S., **Loa, P.**, Mashrur, Sk., Dianat, A., Wang, K., Hossain, S., Liu, Y., 2021. "Assessing the Impacts of COVID-19 on Urban Passenger Travel Demand in the Greater Toronto Area: Description of A Multi-Pronged and Multi-Staged Study with Initial Results". *Transportation Letters*, 13(5-6): 353-366. DOI: 10.1080/19427867.2021.1899579.
 2. **Loa, P.**, Habib, K.N., 2021. "Examining the Influence of Attitudinal Factors on the Use of Ride-hailing Services in Toronto". *Transportation Research Part A*, 146: 13-28. DOI: 10.1016/j.tra.2021.02.002.
 1. **Loa, P.**, Hossain, S., Habib, K.N., 2020. "On the Influence of Land Use and Transit Network Attributes on the Generation of, and Relationship between, the Demand for Public Transit and Ride-Hailing Services in Toronto". *Transportation Research Record*, 2675(3): 136-153. DOI: 10.1177/0361198120966601.

Journal Papers Under Review

6. **Loa, P.**, Giller, J., Lee, Y., Circella, G., 2026. "Beyond Availability: Investigating Incentive Familiarity Among California Ride-hailing Drivers".
5. **Loa, P.**, Lee, Y., Circella, G., 2025. "Just Another Ride-hailing? Examining the Determinants of Robotaxi Demand in San Francisco".
4. Giller, J., logansen, X., Circella, G., Young, M., Lee, Y., **Loa, P.**, 2025. "Ridehailing Drivers' Perceptions and Adoption of Electric Vehicles: Insights from a Stratified Random Sample Survey".
3. logansen, X., Giller, J., Young, M., **Loa, P.**, Lee, Y., Bunch, D.S., Circella, G., 2025. "Motivations and Barriers to Electrifying Ridehailing Services: Evidence from California TNC Drivers".
2. **Loa, P.**, Lee, Y., Circella, G., 2025. "Exploring Variations in Vehicle-Miles Traveled Among Latent Classes of Shared Mobility Users in California".

1. Naila Meghna. N., **Loa, P.**, Hasnine, Md. S., 2024. "How Do Students Make a Choice of Activity Types? - A Dynamic Discrete Choice Analysis of Activity Type Selection in A Tour-Based Approach".

Book Chapters

1. **Loa, P.**, Hossain, S., Wang, K., Habib, K.N., 2023. "Examining the impacts of the COVID-19 pandemic on ride-sourcing services: Findings from a literature review and case studies". In: Van Acker, V., Choo, S., Mokhtarian, P.L. (Eds.), *Advances in Transport Policy and Planning: Part 1 – Long-term impacts of COVID-19 on mobility and travel behaviour*, pg. 105-143. UK: Elsevier Ltd. DOI: 10.1016/bs.atpp.2023.07.005.

CONFERENCE PAPERS

Papers in Refereed Conference Presentations (Full paper is reviewed)

27. **Loa, P.**, Lee, Y., Circella, G., 2025. "Exploring Variations in Vehicle-Miles Traveled Among Latent Classes of Shared Mobility Users in California". Presented at the 105th Annual Meeting of the Transportation Research Board, January 11-15, 2026. Washington, D.C.
26. Naila Meghna. N., **Loa, P.**, Hasnine, Md. S., 2025. "Beyond the First Trip: A Tour-based Model of Sequential Activity Choices Among Post-Secondary Students". Presented at the 105th Annual Meeting of the Transportation Research Board, January 11-15, 2026. Washington, D.C.
25. **Loa, P.**, Lee, Y., Circella, G., 2025. "Exploring Variations in Vehicle-Miles Traveled Among Latent Classes of Shared Mobility Users in California". Presented at the 105th Annual Meeting of the Transportation Research Board, January 11-15, 2026. Washington, D.C.
24. **Loa, P.**, logansen, X., Lee, Y., Circella, G. "Are All Ride-hailing Trips Created Equal? An Examination of Additional Trips Enabled by Ride-hailing and the Users Who Make Them". Presented at the 104th Annual Meeting of the Transportation Research Board, January 5-9, 2025. Washington, D.C.
23. Kothawala, A., Haddad, A., **Loa, P.**, Lee, Y., Circella, G., Bhat, C. R. "Hybrid Workers' Activity Intensity: Post-Pandemic Comparison of Telework-Only and In-Person Workdays". Presented at the 104th Annual Meeting of the Transportation Research Board, January 5-9, 2025. Washington, D.C.
22. Sohi, M., **Loa, P.**, Ozbilen, B., logansen, X., Lee, Y., Circella, G. "Unravelling the Relationship Between Online Shopping and Vehicle Miles Traveled Associated with Shopping Trips". Presented at the 104th Annual Meeting of the Transportation Research Board, January 5-9, 2025. Washington, D.C.
21. Vetrici, M., **Loa, P.**, Ong, F., Habib, K.N. "How Frequent is Frequent Enough? Exploring the Relationship between the Approach to Identify Ride-sourcing Users and the Specification of Ride-sourcing Adoption Models". Presented at the 103rd Annual Meeting of the Transportation Research Board, January 7-11, 2024. Washington, D.C.
20. Mashrur, Sk. Md. **Loa, P.**, Ong, F., Habib, K.N. "Transit Pass Ownership as a Potential Source of Heterogeneity in the Determinants of Ride-sourcing Use in Metro Vancouver". Presented at the 103rd Annual Meeting of the Transportation Research Board, January 7-11, 2024. Washington, D.C.

19. **Loa, P.**, Ong, F., Habib, K.N. "How Does the Introduction of Shared Ride-sourcing Services Affect Demand for Existing Modes for Non-commuting Trips? Evidence from a Joint RP-SP Study in Metro Vancouver". Presented at the 103rd Annual Meeting of the Transportation Research Board, January 7-11, 2024. Washington, D.C.
18. **Loa, P.**, Ong, F., Hawkins, J., Habib, K.N. "Unravelling the Relationship between Ride-sourcing Services and Conventional Modes in Toronto: A Stated Preference Study in the City of Toronto". Presented at the 103rd Annual Meeting of the Transportation Research Board, January 7-11, 2024. Washington, D.C.
17. Ong, F., **Loa, P.**, Habib, K.N. "Is it the Trip or the Trip-Maker? Modelling Factors Influencing the Demand Induced by the Availability of Ride-sourcing Services in Metro Vancouver". Presented at the 103rd Annual Meeting of the Transportation Research Board, January 7-11, 2024. Washington, D.C.
16. Ong, F., **Loa, P.**, Habib, K.N. "Ride-sourcing Use in Metro Vancouver: Looking through the Lens of Disability". Presented at the 103rd Annual Meeting of the Transportation Research Board, January 7-11, 2024. Washington, D.C.
15. **Loa, P.**, Ong, F., Habib, K.N. "How has Anticipated Post-pandemic Ride-sourcing Use Changed During the COVID-19 Pandemic? Evidence from a Two-cycle Survey of the Greater Toronto Area". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
14. Ong, F., **Loa, P.**, Habib, K.N. "Assessing Metro Vancouver as an Emerging Market for Ride Sourcing Services: Insights into Trip Characteristics and Impacts on Multimodal Competitions". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
13. Liu, Y., **Loa, P.**, Wang, K., Habib, K.N. "A Multi-task Learning Deep Neural Networks Model for Stated Reference Analysis: Exploratory Analysis on Changes in Ride-sourcing Choices During the COVID-19 in Toronto". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
12. Hossain, S., **Loa, P.**, Wang, K., Mashrur, Sk. Md., Dianat, A., Habib, K.N. "A Comprehensive Data Fusion to Evaluate the Impacts of COVID-19 on Passenger Travel Demands: Application of a Core-Satellite Data Collection Paradigm". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
11. **Loa, P.**, Ong, F., Habib, K.N. "Identifying Profiles of Ride-sourcing Users in the Metro Vancouver Region for a Better Understanding of Ride-sourcing Behaviour". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
10. Ong, F., **Loa, P.**, Habib, K.N. "A Behavioural Analysis of Post-pandemic Modality Profiles for Non-commuting Trips in the Greater Toronto Area". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
9. **Loa, P.**, Habib, K.N. "The Determinants of Anticipated Post-pandemic Mode Choices in the Greater Toronto Area: A Stated Preference Study". Presented at the 102nd Annual Meeting of the Transportation Research Board, January 8-12, 2023. Washington, D.C.
8. Mashrur, Sk. Md., Wang, K., **Loa, P.**, Hossain, S., Habib, K.N. "Application of Protection Motivation Theory to quantify the impact of pandemic fear on anticipated post-pandemic

- transit usage”. Presented at the 101st Annual Meeting of the Transportation Research Board, January 9-13, 2022. Washington, D.C.
7. Hossain, S., **Loa, P.**, Ong, F., Habib, K.N. “Exploring the Spatiotemporal Factors affecting Bicycle-Sharing Demand during the COVID-19 Pandemic”. Presented at the 101st Annual Meeting of the Transportation Research Board, January 9-13, 2022. Washington, D.C.
 6. Liu, N., Wang, K., **Loa, P.**, Habib, K.N. “Modelling the Frequency of Home Deliveries: An Induced Travel Demand Contribution of Aggrandized E-shopping in Toronto during COVID-19 Pandemics”. Presented at the 101st Annual Meeting of the Transportation Research Board, January 9-13, 2022. Washington, D.C.
 5. Hossain, S., **Loa, P.**, Ong, F., Habib, K.N. “The Determinants of Commute Mode Usage Frequency of Post-Secondary Students in the Greater Toronto and Hamilton Area”. Presented at the 101st Annual Meeting of the Transportation Research Board, January 9-13, 2022. Washington, D.C.
 4. **Loa, P.**, Mashrur, Sk. Md., Habib, K.N. “What Would Have Been the Substitute Travel Modes of Ride-Sourcing Trips if There Were No Ride-Sourcing Services?”. Presented at the 100th Annual Meeting of the Transportation Research Board, January 21-29, 2021. Washington, D.C.
 3. Habib, K.N., Hawkins, J., Shakib, S., **Loa, P.**, Mashrur, Sk. Md., Dianat, A., Wang, K., Hossain, S., Liu, Y. “Assessing the Impacts of COVID-19 on Urban Passenger Travel Demand: Description of A Multi-Pronged and Multi-Staged Study with Initial Results”. Presented at the 100th Annual Meeting of the Transportation Research Board, January 21-29, 2021. Washington, D.C.
 2. **Loa, P.**, Habib, K.N. “On the Role of Land-Use and Transit Network Attributes Influencing the Relationship between Public Transit and Ride-hailing Services in Toronto”. Presented at the 99th Annual Meeting of the Transportation Research Board, January 12-16, 2020. Washington, D.C.
 1. **Loa, P.**, Habib, K.N. “How does Toronto Transit Treat the Post-Secondary Students for Discretionary Trips in the City? A Choice Model-based Analysis of Accessibility by Transit in Toronto”. Presented at the 99th Annual Meeting of the Transportation Research Board, January 12-16, 2020. Washington, D.C.

Papers in Refereed Conference Presentations (Only abstract is reviewed)

10. logansen, X., Giller, J., Young, M., Lee, Y., **Loa, P.**, Circella, G. “Motivations and Barriers to Electrification in Ridehailing: Insights from a Survey of Ridehailing Drivers in California”. Presented at The Transportation Research Symposium, May 25-28, 2025. Rotterdam, The Netherlands.
9. Lecompte, M.C., **Loa, P.**, Ozbilen, B., logansen, X., Makino, K., Jena, A., Gulhare, S., Circella, G., Lee, Y. “Multichannel survey methods for a longitudinal study on the changes in travel behavior in California during and after the COVID-19 pandemic”. Presented at the 104th Annual Meeting of the Transportation Research Board, January 5-9, 2025. Washington, D.C.
8. Ong, F., **Loa, P.**, Habib, K.N. “Factors Influencing the Use of Ride-Sourcing by People with Mobility Impairments: The Case of Metro Vancouver Region”. Presented at the 58th CTRF Annual Conference, May 7-10, 2023. Toronto, Canada.

7. Hossain, S., **Loa, P.**, Ong, F., Liu, Y., Habib, K.N. "Have the determinants of bike-share demand changed in response to the COVID-19 pandemic? A machine learning-based approach". Presented at the 58th CTRF Annual Conference, May 7-10, 2023. Toronto, Canada.
6. **Loa, P.**, Habib, K.N. "Modelling Travel Mode Choice with Explicit Consideration of Ride-Sourcing in the Choice Set: Assessing the Impact of COVID-19 on Toronto's Ride-Sourcing Service Demands". Presented at the 16th International Conference on Travel Behaviour Research, Dec 11-15, 2022. Santiago, Chile.
5. **Loa, P.**, Ong, F., Habib, K.N. "How has Anticipated Post-pandemic Ride-sourcing Use Changed During the COVID-19 Pandemic? Evidence from a Two-cycle Survey of the Greater Toronto Area". Presented at CITE/QUAD 2022 Joint Annual Conference, May 29 – June 1, 2022. Vancouver, Canada.
4. Ong, F., **Loa, P.**, Habib, K.N. "Post-pandemic Modality Profiles for Non-commuting Trips in the GTA". Presented at CITE/QUAD 2022 Joint Annual Conference, May 29 – June 1, 2022. Vancouver, Canada.
3. Hossain, S., **Loa, P.**, Ong, F., Habib, K.N. "Exploring the Impacts of the COVID-19 Pandemic on Bicycle-sharing Demand in Toronto". Paper presented at the 2021 TAC Conference & Exhibition, Sept. 20 – Oct. 1, 2021. Online.
2. Hossain, S., **Loa, P.**, Wang, K., Mashrur, Sk. Md., Dianat, A., Habib, K.N. "A comprehensive data fusion exercise to evaluate the impacts of COVID-19 on passenger travel demand in the Greater Toronto Area". Presented at the 56th Annual Conference of the Canadian Transportation Research Forum, May 17-18, 2021. Online.
1. **Loa, P.**, Hossain, S., Habib, K.N. "Understanding the Influence of the Built Environment and Zonal Attributes on the Relationship between Public Transit and Ride Hailing Services". Paper presented at "Research and Applications on the Use of Massive Passive Data for Public Transport", July 8-10, 2019. Paris, France.

TECHNICAL REPORTS

20. Circella, G., Giller, J., logansen, X., Young, M., Lee, Y., **Loa, P.** "Assessing the Early Impacts of the Clean Miles Standard on California Ridehailing Drivers". Report to the California Air Resources Board. 3 Revolutions Future Mobility program – Institute of Transportation Studies, University of California, Davis. October 2025.
19. Circella, G., Lee, Y., **Loa, P.**, Jena, A. "Transatlantic Cooperation for Leveling Up Mobility as a Service (MaaS): WP3: Identifying the Potential for MaaS Implementation in California". Report to Vinnova. 3 Revolutions Future Mobility program – Institute of Transportation Studies. May 2025.
18. Ozbil, B., Gulhare, S., Makino, K., Jena, A., logansen, X., **Loa, P.**, Lee, Y., Malik, J., Circella, G. "Barriers to Reducing the Carbon Footprint of Transportation Part 2: Investigating Evolving Travel Behaviors into the Post-Pandemic Period in California". Report to the California Air Resources Board. 3 Revolutions Future Mobility program – Institute of Transportation Studies, University of California, Davis. March 2024.

17. Ong, F., **Loa, P.**, Habib, K.N. "TNCs for Persons with Disabilities". Report to the TransLink New Mobility Research Lab. University of Toronto Transportation Research Institute. March 2023.
16. **Loa, P.**, Ong, F., Habib, K.N. "Comparative Study of the Utilization and Impacts of TNCs in Toronto and the Greater Vancouver Region". Report to the TransLink New Mobility Research Lab. University of Toronto Transportation Research Institute. March 2023.
15. **Loa, P.**, Ong, F., Habib, K.N. "Survey Data Analysis". Report to the TransLink New Mobility Research Lab. University of Toronto Transportation Research Institute. Sept. 2022.
14. Ong, F., **Loa, P.**, Habib, K.N. "Survey Design and Data Structure". Report to the TransLink New Mobility Research Lab. University of Toronto Transportation Research Institute. Mar. 2022.
13. Mashrur, Sk. Md., Wang, K., **Loa, P.**, Habib, K.N. "Report on Transit Demand and Choice Adaptation Survey 2021". University of Toronto Transportation Research Institute. Nov. 2021.
12. **Loa, P.**, Hossain, S., Liu, Y., Mashrur, Sk. Md., Ong, F., Habib, K.N. "Exploring the Impacts of COVID-19 on Ride-sourcing use in the Greater Toronto Area: Results from the second cycle of the SiSTM satellite survey". University of Toronto Transportation Research Institute. Nov. 2021.
11. **Loa, P.**, Ong, F., Habib, K.N. "Review of TNC Evaluations and Strategies and Policies on Shared Mobility". Report to the TransLink New Mobility Research Lab. University of Toronto Transportation Research Institute. May 2021.
10. **Loa, P.**, Hossain, S., Liu, Y., Mashrur, Sk. Md., Habib, K.N. "How has COVID-19 Impacted Ride-sourcing use in the Greater Toronto Area? Results from the first cycle of the SiSTM satellite survey". University of Toronto Transportation Research Institute. Aug. 2020.
9. Mashrur, Sk. Md., Wang, K., Hossain, S., **Loa, P.**, Habib, K.N. "An Assessment of the Impacts of COVID-19 Lockdown in Summer 2020 on Transit Use in the Greater Toronto Area: Results from the Cycle-1 of SPETT Satellite Survey". University of Toronto Transportation Research Institute. Aug. 2020.
8. **Loa, P.**, Hawkins, J., Habib, K.N. "Evaluating the Impacts of Private Transportation Companies on Travel Behaviour through a Stated Preference (SP) Survey". Report to the City of Toronto Big Data Innovation Team. University of Toronto Transportation Research Institute, May 2019.
7. Sriukenthiran, S., **Loa, P.**, Hossain, S., Chung, B., Habib, K.N., Miller, E.J. "Transportation Tomorrow Survey 2.0: Final Report". Report to the Transportation Information Steering Committee, Toronto. University of Toronto Transportation Research Institute, Dec. 2018.
6. **Loa, P.**, Hossain, S., Habib, K.N. "Satellite Survey Design for the Collection of Cycling Demand in the National Capital Region – Survey Design and Recommendations". Report to the TRANS Committee. University of Toronto Transportation Research Institute, Dec. 2018.
5. **Loa, P.**, Hossain, S., Habib, K.N. "Assessing the State-of-the-Practice of Active Mode Data Collection and Planning: Result of a Planning Agency Survey". Report to the TRANS Committee. University of Toronto Transportation Research Institute, May 2018.
4. **Loa, P.**, Ladan, T., Hossain, S., Habib, K.N. "Core-Satellite Survey Design Accommodating Active Mode Demand in the National Capital Region – Review and Recommendations".

Report to the TRANS Committee. University of Toronto Transportation Research Institute, Nov. 2017.

3. Ladan, T., **Loa, P.**, Habib, K.N. "Data for Planning Active Travel Modes: A Literature Review". Report to the TRANS Committee. University of Toronto Transportation Research Institute, Nov. 2017.
2. **Loa, P.**, Srikuenthiran, S., Miller, E.J., Habib, K.N. "Core-Satellite Survey Design Framework: A Conceptual Framework". Report to the Transportation Information Steering Committee, Toronto. University of Toronto Transportation Research Institute, Nov. 2017.
1. **Loa, P.**, Srikuenthiran, S., Miller, E.J., Habib, K.N. "Current state of web-based survey methods". Report to the Transportation Information Steering Committee, Toronto. University of Toronto Transportation Research Institute, Sept. 2015.

PART 3 – TEACHING AND MENTORSHIP

TEACHING EXPERIENCE

Teaching Assistant: University of Toronto, Toronto, Canada

- CIV1538: Transportation Demand Analysis (Winter 2020 – Winter 2023)
- CIV1504: Applied Probability and Statistics for Civil Engineering (Fall 2018 – Fall 2022)
- CIV577: Infrastructure for Sustainable Cities (Winter 2018 – Winter 2019)
- CIV531: Transport Planning (Fall 2017)

HIGHLY QUALIFIED PERSONNEL (HQP) MENTORSHIP

Current PhD. Students

Student Name	Thesis Topic	Year of Graduation
Alimurtaza Kothawala	TBD	Sept. 2023 – Aug. 2027
James Giller	Investigating the Environmental and Equity Implications of Ride-hailing Services	Jan. 2023 – Dec. 2026
Felita Ong	Mobility Tool Ownership Choices in the Era of On-demand Mobility	Sept. 2022 – Aug. 2026
Mwendwa Kiko	Modelling Household Vehicle Ownership Decisions	Sept. 2022 – Aug. 2026
Maria Carolina Lecompte	Promoting Inclusion and Equity in Transportation	Sept. 2021 – Aug. 2025
Kaili Wang	Activity-based Travel Demand Modelling	Sept. 2021 – Aug. 2025
Yicong (Nora) Liu	Modelling Housing Demand	Sept. 2021 – Aug. 2025
Shuoyan Xu	Understanding Demand for Mobility-as-a-Service	Sept. 2021 – Aug. 2025
Md. Faizus Salehin	Enhancing Travel Demand Models to Capture Behavioural Adaptation in Light of Automated Vehicles	Sept. 2017 – Aug. 2024

Completed Ph.D. Students

Student Name	Thesis Topic	Year of Graduation
Xiatian (Summer) logansen	Understanding the Behavior Impacts of Emerging Transportation Services	Sept. 2019 – Dec. 2024
Sk. Md. Mashrur	Analyzing the Short- and Long-term Impacts of the COVID-19 Pandemic on Public Transit Use	Sept. 2022 – Aug. 2026
Ya Gao	Impacts of High-speed Rail on Inter-city Commuter Mode Choice	Sept. 2022 – Sept. 2023

Completed M.A.Sc. Students

Student Name	Thesis Topic	Year of Graduation
Aurojeet Jena	Commuting Mode Choice in the Post-pandemic Era	Jan. 2023 – Aug. 2024
Brenden Lavoie	Exploring how the Interior Layout of Autonomous Vehicles Impacts Travel Time Perceptions	Sept. 2021 – Sept. 2023

Undergraduate Research Assistants

Student Name	Department	Research Project	Year
Manreet Sohi	Computer Science (4 th year)	Examining the impact of online shopping on shopping vehicle-miles travelled	Summer 2024
Maria Vetrici	Civil & Mineral Engineering (2 nd year)	Exploring how the definition of ride-sourcing users affects the resulting models of adoption	Summer 2023

PART 4 – SERVICE

PEER REVIEW OF JOURNAL PAPERS AND CONFERENCE SUBMISSIONS

Journal Articles [Papers Reviewed]

- Case Studies on Transportation Policy [3]
- European Journal of Transport and Infrastructure Research [1]
- Journal of Choice Modelling [1]
- Journal of Transport Geography [1]
- Transportation [5]
- Transportation Letters: The International Journal of Transportation Research [3]
- Transport Policy [4]
- Transportation Research Interdisciplinary Perspectives [1]
- Transportation Research Part A: Policy and Practice [4]
- Transportation Research Part D: Transport and Environment [2]
- Transportation Research Record: Journal of the Transportation Research Board [1]
- Travel Behaviour and Society [6]

Conference Submissions [Papers Reviewed]

- Annual Meeting of the Transportation Research Board (TRB) – AEP30, AEP35, AEP50 [24]
- Bridging Transportation Researchers (BTR) Conference [3]
- International Conference on Travel Behaviour Research (IATBR) [2]
- Symposium of the European Association for Research in Transportation (hEART) [1]
- World Symposium on Transport and Land Use Research (WSTLUR) [1]