

# CURRICULUM VITAE

## AHSAN HABIB

### RANK AND STATUS

**Director**, School of Planning, Dalhousie University, Halifax, NS

**Associate Professor**, School of Planning, Dalhousie University, Halifax, NS

**Associate Professor**, Department of Civil and Resource Engineering, Dalhousie University, Halifax, NS (cross appointment)

**Member**, continuing, Faculty of Graduate Studies, Dalhousie University, Halifax, NS

**Visiting Professor**, Transportation Research Institute, University of Hasselt, Belgium

**Senator**, Dalhousie University Senate, Halifax, NS

**Board Member** (Faculty Representative), Board of Governors, Dalhousie University, Halifax

**Director**, Dalhousie Transportation Collaboratory (DalTRAC), Halifax, NS

### ADDRESS AND CONTACT

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Lab B105, Engineering B Building, 1360 Barrington Street

Web **Research Website:** [www.dal.ca/sites/daltrac](http://www.dal.ca/sites/daltrac)

Project website: <https://www.dal.ca/sites/connect-smart.html>

Project website: <http://www.dal.ca/sites/share-the-road.html>

DalTRAC Blog: <https://blogs.dal.ca/daltrac/>

### PERSONAL

Self-id Canadian Citizen; Male; Visible Minority

### EDUCATION

2005 – 2009 **PhD** (Transportation Engineering and Planning)  
Department of Civil Engineering, University of Toronto  
*Supervisor:* Prof. Eric J. Miller  
*Specialty:* Integrated Land Use and Transportation Modelling, Applied Econometrics, Panel Data Modeling, Microsimulation

2004 – 2005 **Master of Applied Science** (transferred to the PhD Program)  
Department of Civil Engineering, University of Toronto  
*Supervisor:* Prof. Eric J. Miller

2002 – 2004 **Master of Urban and Regional Planning**  
Department of Urban and Regional Planning, BUET, Dhaka  
*Supervisor:* Dr. K.M. Maniruzzaman  
*Specialty:* Transportation, Spatial statistics, GIS and Hedonic Price Modelling

1996 – 2002 **Bachelor of Urban and Regional Planning**  
Department of Urban and Regional Planning, BUET, Dhaka

## ACADEMIC APPOINTMENTS

- 2019 – Pres. **Director**, School of Planning, Dalhousie University, Halifax, NS
- 2018 – 2023 **Visiting Professor**, Transportation Research Institute, University of Hasselt, Belgium
- 2015 – Pres. **Associate Professor** (tenured), School of Planning and Department of Civil and Resource Engineering (cross)
- 2010 – 2015 **Assistant Professor**, School of Planning, Dalhousie University, Halifax, NS
- 2011 – 2015 **Assistant Professor**, Department of Civil and Resource Engineering (cross), Dalhousie University, Halifax, NS
- 2008 – 2009 **Sessional Lecturer**, part-time, University of Toronto, Scarborough, ON
- 2004 – 2009 **Research Assistant**, Integrated Land Use, Transportation and Environment (ILUTE) Research Group, Dept. of Civil Engineering, University of Toronto
- 2004 – 2009 **Teaching Assistant**, Department of Civil Engineering, University of Toronto
- 2002 – 2004 **Lecturer**, full-time, Bangladesh University of Engineering and Technology (BUET), Dhaka

## PROFESSIONAL PRACTICE

- Independent Consultant (Subcontractor), ZZap Consulting Inc., 2019
- Independent Consultant (Subcontractor), CBCL Engineering Limited, Halifax, 2017 – pres.
- Independent Consultant (Subcontractor), CIMA+, Toronto, ON, 2016-2017
- Independent Consultant (Subcontractor), CBCL Engineering Limited, Halifax, NS, 2017
- Independent Consultant, Cities and Environment Unit, Halifax, NS, 2011
- Planner III (Transportation Modeller), Systems Analysis and Forecasting Office, Transportation Planning Branch, Ministry of Transportation, Ontario (MTO)
- Consultant, Department of Urban and Regional Planning, BUET, Dhaka, 2002-2004

## SELECTED OTHER APPOINTMENTS

- Member, NSERC Civil, Industrial and Systems Engineering Evaluation Group (EG 1509), Natural Sciences and Engineering Research Council of Canada, 2020 – 2023
- Committee Member, Standing Committee on Effects of Information and Communication Technologies (ICT) on Travel Choices (ADB20/AEP35), Transportation Research Board (TRB), 2013/4 – 2022
- Chair (elected), Integrated Climate Change Committee, Transportation Association of Canada (TAC), 2019 – present
- Member, Connected and Automated Vehicle Taskforce, Transportation Association of Canada (TAC), Ottawa, ON, 2017 – present
- Member, Expert Panel, TRB-NCHRP, Integrated Land Use and Transportation Modelling, USA National Academies of Sciences, Engineering, and Medicine, Washington DC, 2016
- Member, Urban Transportation Council, Transportation Association of Canada (TAC), 2017/4 – 2020/3

- Committee Member, Transportation Planning and Research Standing Committee, Transportation Association of Canada (TAC), 2017/4 – 2020/3
- Co-chair, Transportation Group, Canadian Urban Environment Health Research Consortium (CANUE), University of Toronto, ON, 2016 – 2021

## AWARDS AND HONOURS

Founding Research Fellow, MacEachen Institute for Public Policy and Governance, Dalhousie University, Halifax, NS, 2018–2020

CTRF Best Paper Award (runner up), 49th Annual Conference of Canadian Transportation Research Forum, Windsor, ON, June 1–4, 2014

Dr. Michel Van Aerde National Doctoral Award, Canadian Institute of Transportation Engineers (CITE), 2008, \$2000

*Transport Canada Scholarship in Sustainable Transportation*, Canadian Transportation Research Forum (CTRF) National Graduate Award, 2008, \$4000

TAC Foundation Scholarship, Transportation Association of Canada, 2008, \$3000

University of Toronto (U of T) Open Fellowship, Toronto, ON, 2004–2009, \$20,000

Commonwealth Scholarship at the University of Cambridge, UK (Declined to attend University of Toronto), 2004

Dr. Rashid Gold Medal for the best performance among all the Master's Degree recipients at BUET in the year 2004, Dhaka, Bangladesh

Dean's Award and Merit Scholarship at all academic sessions, BUET, Dhaka, 1996–2002

## RESEARCH INTERESTS

- Transport Data and Travel Surveys
- Travel Behaviour Analysis
- Travel Demand Forecasting and Emission Modelling
- Microsimulation of Urban Systems
- Integrated Transportation, Land Use and Energy Modelling
- Traffic Microsimulation, and Mass Evacuation Modelling
- Autonomous Vehicles and Smart Mobility Planning
- Transport, Health and Well-being
- Road Safety and Collision Analysis
- Transportation Planning and Policy
- Transportation in Developing Countries

## RESEARCH GRANTS/CONTRACTS

2020 – 2021	<b>NSERC Alliance Grant</b> , “COVID-19 Transportation Systems Planning: Partnerships for Innovations in Monitoring, Modelling and Service Delivery” (PI: <u>Dr. Habib</u> ; Co-PI: Dr. El Nagggar [Dalhousie] and Dr. Waygood [Polytechnique de Montreal])	\$50,000 Awarded
2020 – 2023	<b>SSHRC Partnership Development Grant</b> , “Working Across Disciplines to Understand and Improve Mass Evacuations: Examining Different Types of Risk and Contextual Pressures” (PI: Dr. Quigley [Dalhousie], Co-PI: <u>Dr. Habib</u> , Dr. Pelot [Dalhousie], among others)	\$173,000 (32k, Habib) Awarded

2020 – 2022	<b>Accessibility Standards Canada Grant</b> , “Interdisciplinary Study of Evacuating Persons with Disabilities from an Urban Center” (PI: Dr. Quigley [Dalhousie], Co-PI: Drs. Habib, Wildeman, Manning, & Wu [Dalhousie], among others)	\$199,763 (15k, Habib) Awarded
2018 – 2024	<b>NSERC Discovery Grant</b> , “Development of an Agent-based Microsimulation Model of Urban Systems that Integrates Location Processes, Vehicle Ownership and Travel Activity Choices” (PI: <u>Dr. Habib</u> )	\$165,000 Awarded
2018 – 2019	Nova Scotia Department of Energy, “Technology-based Evaluation of Active Transportation Infrastructure Projects: Training and Data Collection” (PI: <u>Dr. Habib</u> )	\$19,780 Completed
2017 – 2019	Halifax Regional Municipality, “Household Travel Activity Survey for Halifax” (PI: <u>Dr. Habib</u> )	\$300,000 Completed
2018 – 2019	Connect 2 Program, Province of Nova Scotia, “Connect Smart 2.0: Scenario Planning for Technology-Based Mobility Opportunities in Nova Scotia” (PI: <u>Dr. Habib</u> )	\$30,000 Completed
2017 – 2018	<b>NSERC Discovery Grant</b> , “Developing Longitudinal Bottom-up Models of Land Use, Transport and Energy Use”, Early Career Discovery Extension Grant (PI: <u>Dr. Habib</u> )	\$23,000 Completed
2017 – 2018	Connect 2 Program, Province of Nova Scotia, “ConnectSmart Project: Rethinking Mobility for All” (PI: <u>Dr. Habib</u> )	\$30,000 Completed
2017 – 2018	Nova Scotia Department of Energy, “Sensing New Mobility: Performance Evaluation of Transport Infrastructure in Nova Scotia Communities” (PI: <u>Dr. Habib</u> )	\$38,496 Completed
2017 – 2020	Nova Scotia Health Research Foundation Grant, “Spatial Accessibility to Four Services and their Influence on Health Inequality” (PI: Dr. Terashima, Co-PI: <u>Dr. Habib</u> , Sara Kirk, George Kephart, Emily Marshall and Daniel Rainham)	\$147,792 (tbd, Habib) Completed
2016 – 2021	<b>CIHR Open Operating Grant</b> , “Canadian Urban Environment Health Research Consortium”, (PI: Dr. Brook (UofT), Co-applicant: <u>Dr. Habib</u> , among others)	\$4,160,000 (45k, Habib) Completed
2016 – 2017	Marine Environmental Observation, Prediction and Response Network, “Evacuating the Halifax Peninsula: Multidisciplinary Analysis and Training to Improve Evacuation from Coastal Floods” (PI: Dr. Quigley, Co-PI: <u>Dr. Habib</u> )	\$50,000 (18k, Habib) Completed
2015 – 2016	Dalhousie University Facilities Management, “Implementation of University Avenue Bike Counter” (PI: <u>Dr. Habib</u> )	\$25,000 Completed
2015 – 2016	Nova Scotia Department of Energy, “Estimation of Transport Energy Use, Emission and Travel Choices for the Province of Nova Scotia” (PI: <u>Dr. Habib</u> )	\$40,000 Completed
2015 – 2016	Nova Scotia Department of Health and Wellness, “Evaluation of Active Transportation Interventions in Nova Scotia Communities” (PI: <u>Dr. Habib</u> , Co-PI: Dr. Manuel)	\$48,000 Completed
2015 – 2016	Nova Scotia Department of Energy, “Nova Scotia Travel Activity and Emission Study” (PI: <u>Dr. Habib</u> )	\$80,000 Completed
2015 – 2019	Office of Sustainability, Dalhousie University, “Dalhousie University Commuter Study, 2015-2019” (PI: <u>Dr. Habib</u> )	\$50,000 Completed
2015 – 2016	Nova Scotia Department of Energy, “Thumbs Up! Nova Scotia 2015/16: Integrated Mobility for All” (PI: <u>Dr. Habib</u> )	\$11,500 Completed
2015 – 2018	<b>SSHRC Insight Grants</b> , “Adapting to Vulnerabilities in the Transportation System's Critical Infrastructure: Drawing Lessons for Risk Governance from the Redecking of the Macdonald	\$148,338 (36k, Habib) Completed

	Suspension Bridge in Halifax" (PI: Dr. Quigley, <u>Co-PI: Dr. Habib &amp; Dr. Pelot [Dalhousie] and Dr. Grutz [Ryerson]</u> )	
2014 – 2015	The Province of Nova Scotia, Department of Energy, "Sustainable Transportation Indicators: Transport Data Collection and Modelling", (PI: Dr. Habib)	\$200,000 Completed
2014 – 2015	NS Moves Grant, 3 <sup>rd</sup> Round, Nova Scotia Department of Energy, "Nova Scotia Share the Road Awareness Campaign: Phase Two" (PI: Dr. Habib)	\$45,000 Completed
2014 - 2015	Imperial Oil Limited, "Road Safety in Nova Scotia" (PI: Dr. Habib)	\$5,000 Completed
2014 – 2019	<b>CFI Infrastructure Operating Fund</b> , "Dalhousie Transportation Collaboratory" (PI: Dr. Habib)	\$14,560 Completed
2014 – 2015	Nova Scotia Department of Energy, "Provincial Land-use Planning GIS Support Tool" (PI: Dr. Habib)	\$22,115 Completed
2014 – 2015	Bicycle Nova Scotia, "Nova Scotia Cycling and Active Transportation Behaviour Study" (PI: Dr. Habib)	\$9,000 Completed
2013 – 2017	<b>SSHRC Insight Grants</b> , "Coordinating Land Use Planning in the Context of Multiple Plans" (PI: Dr. Grant, [Dalhousie]; <u>Co-PI: Drs. Habib, Manuel &amp; Rapaport [Dalhousie] and Dr. Filion [Waterloo]</u> )	\$181,700 (29k, Habib) Completed
2013 – 2014	NS Moves Grant, Nova Scotia Department of Energy, "Community-based Share the Road Awareness Campaign (CSRAC) Program for Nova Scotians" (PI: Dr. Habib)	\$55,000 Completed
2013 – 2014	The Province of Nova Scotia, Department of Energy, "Transportation Data Collection and Modelling Centre for Sustainable Transportation Planning" (PI: Dr. Habib)	\$200,000 Completed
2013 – 2014	NS Department of Health and Wellness, Physical Activity Grant Program, "Nova Scotia Active Transportation Barriers and Best Practices Study" (PI: Dr. Habib)	\$10,000 Completed
2013 – 2014	Department of Foreign Affairs, Trade and Development (DFATD), Government of Canada, The Canada-CARICOM Leadership Exchange Scholarship (grant), "Transportation Planning for Mass Emergency Evacuation" (PI: Dr. Habib)	\$10,000 Completed
2012 – 2017	<b>NSERC Discovery Grant</b> , "Developing Longitudinal Bottom-up Models of Land Use, Transport and Energy Use" (PI: Dr. Habib)	\$115,000 Completed
2012 – 2013	Clean Nova Scotia Foundation, "Examining Attitudes, Long-term Mobility Decisions and Travel Behaviour in the Halifax Regional Municipality (HRM)" (PI: Dr. Habib)	\$6,000 Completed
2012 – 2014	Legacy Home Builders Limited, "Emission Modeling under different Land Development Scenarios" (PI: Dr. Habib)	\$20,000 Completed
2012 – 2013	Department of Foreign Affairs and International Trade Canada, Graduate Student Exchange, Commonwealth Scholarship (grant), "Mode Choice Behaviour of School-going Children in Dhaka City" (PI: Dr. Habib)	\$10,000 Completed
2012 – 2013	Nova Scotia Road Safety Advisory Committee (RSAC), NS Department of Transportation and Infrastructure Renewal (NSTIR), "Share the Road for Nova Scotians: Setting the Groundwork through Research and Consultation" (PI: Dr. Habib)	\$20,000 Completed
2012 – 2017	Office of Sustainability, Dalhousie University, "Dalhousie University Commuter Study, 2011-2014" (PI: Dr. Habib)	\$40,000 Completed
2012 – 2017	<b>John R. Evans Leaders Opportunity Fund (LOF), Canada Foundation for Innovation (CFI)</b> , "Dalhousie Transportation	\$195,143 Completed

	Collaboratory (DalTRAC) Infrastructure Project”, (funding partners: NSRIT and HRM), ( <u>PI: Dr. Habib</u> )	
2011 – 2012	Atlantic Metropolis Centre, “Planning for Inclusive Transportation: Issues, Challenges and Opportunities for the New Immigrants”, SSHRC pilot grant ( <u>PI: Dr. Habib</u> )	\$5,000 Completed
2011	Ecology Action Centre, Nova Scotia Transit Research Incentive Program (NS-TRIP), “Transit Feasibility Study for the Region of Queens Municipality” (Applicant: Prof. Frank Palermo & CEU, <u>Co-applicant: Dr. Habib</u> ).	\$18,000 (4k, Habib) Completed
2010 – 2011	Office of Sustainability, Dalhousie University, “Dalhousie University Commuter Study: Survey Design and Analysis” ( <u>PI: Dr. Habib</u> )	\$12,000 Completed
2010	Start-up and Research Development Fund, Dalhousie University	\$11,500 Completed

## PUBLICATIONS

### Journal Articles (under review)

Jardine, J.M., **Habib, M.A.**, and Walker, K.E. (2021). “Connected, Autonomous, Shared, and Electric (CASE) Mobility and People: Assessing the Perspectives of Practitioners on Implications and Strategies”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

**Habib, M.A.**, and McCarthy, S. (2021). “Development of an Integrated Transportation and Land Use Microsimulation Model on a Flexible Modeling Platform”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

**Habib, M.A.**, Alam, M.J., and Holmes, D. (2021). “Pedestrian Micro-Simulation for Evaluating the Impacts of Social Distancing Regulations on a Dense Urban Street in Halifax, Canada”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

**Habib, M.A.**, and MacEachern, E. (2021). “Road to Rural Connectivity: A Rural Nova Scotia Perspective on Connected, Autonomous, Shared, and Electric Mobility”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

Alam, M.J., and **Habib, M.A.** (2021). “Development of an Evacuation Decision Support Tool: A Combined Optimization and Traffic Microsimulation Modeling Approach”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

**Habib, M.A.**, and Anik, M.A.H. (2021). “Impacts of COVID-19 on Transport Modes and Mobility Behaviour: Analysis of Public Discourse in Twitter”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

**Habib, M.A.**, Anik, M.A.H., and Robertson, C. (2021). “Travel Behaviour of Households with Pre-School Aged Children: A Structural Equation Modelling Approach”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

Khan, N.A., and **Habib, M.A.** (2021). “Understanding the Role of Built Environment and Accessibility Measures on Smartphone-based Transport-support Application Usage in Daily Trip Planning Purposes”, Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).

- Khan, N.A., and **Habib, M.A.** (2021). "How Built Environment Characteristics of Pedestrian-Vehicles Collision Locations Affect Pedestrian Injury Severity Involving Distracted Driving?", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Hossain, F., and **Habib, M.A.** (2021). "Estimating Economic Impacts of COVID-19 Pandemic at the Municipal Level: A Latent Class Regression Modeling Approach", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Alam, M.J., Shahrier, H., and **Habib, M.A.** (2021). "Autonomous Vehicle Adoption Modeling and Shared Operations Simulation: A Combined Diffusion and Traffic Microsimulation Modeling Approach", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Shahrier, H., Khan, N.A., and **Habib, M.A.** (2021). "COVID-19 Scenario Simulation using and Activity-based Travel Demand Forecasting Model", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Alam, M.J., **Habib, M.A.**, and Holmes, D. (2021). "Microsimulation Modeling of Pedestrian Movements in Airport Accounting for Social Distancing Strategy", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Anik, M.A.H., and **Habib, M.A.** (2021). "Examining the Long-Term Impacts of COVID-19 Using an Integrated Transport and Land-Use Modelling System", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Khan, N.A., Shahrier, H., and **Habib, M.A.** (2021). "Validation of an Activity-based Travel Demand Microsimulation Model – Shorter-term Decisions Simulator (SDS)", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Anik, M.A.H., Hossain, M., and **Habib, M.A.** (2021). "Investigation of Pedestrian Jaywalking Behaviour at Unmarked Crosswalks using Artificial Neural Networks", Submitted to the 100th Annual Meeting of the Transportation Research Board, Washington, D.C., and *Transportation Research Record* (under review).
- Khan, N. A., and **Habib, M.A.** (2020). "Development of an Activity-based Shorter-term Decisions Simulator (SDS): Microsimulation of Activity Generation, Activity Scheduling and Shared Travel Choices", *Transportation* (under review).
- Khan, N. A., and **Habib, M.A.** (2020). "Microsimulation of Mobility Assignment within an Activity-based Travel Demand Forecasting Model", *Transportmetrica A: Transportation Science* (under review).
- Alam, M. J., **Habib, M.A.**, and Pothier, E. (2020). "Shelter Locations in Evacuation: A Multiple Criteria Evaluation combined with Flood Risk and Traffic Microsimulation Modeling", *International Journal of Disaster Risk Reduction* (under review).
- Khan, N. A., Fatmi, M. R., and **Habib, M.A.** (2020). "Microsimulation of Long-term Vehicle Market Demand within a Prototype Integrated Urban Model", *Personal and Ubiquitous Computing* (under review).
- Alam, M.J. and **Habib, M.A.** (2020). "Mass Evacuation Microsimulation Modeling Considering Traffic Disruptions", *Natural Hazards* (under review).

## Refereed Journal Articles

- Alam, M.J. and **Habib, M.A.** (2020). "A Mass Evacuation Modeling Framework to Account for Vulnerabilities in Staged Evacuation", *Transportation Research Part D: Transport and Environment* (revised manuscript submitted).
- Khan, N. A., Enam, A., **Habib, M.A.**, and Konduri, K. C. (2020). "Joint Modeling of Activity-Tour Participation, Time Allocation and Mode Choice", *Journal of Urban Planning and Development* (revised manuscript submitted).
- Khan, N. A., and **Habib, M.A.** (2020). "Modeling Activity-based Tour Shared Travel Choices, Tour-level Activity Participation and Time Allocation", *Transportmetrica A: Transportation Science* (conditionally accepted).
- Khan, N.A. and **Habib, M.A.** (2020). "When Do Households Make Vehicle Transactions? What Type of Vehicle Households Choose After Transaction Events?", *Travel Behaviour and Society*, Vol. 22, pp. 32-47.
- Khan, N.A., **Habib, M.A.** and Jamal, S. (2020). "Effects of Smartphone Application Usage on Mobility Choices", *Transportation Research Part A: Policy and Practice*, Vol. 132, pp. 932-947.
- Jamal, S. and **Habib, M. A.** (2019). "Smartphone and Daily travel: How the Use of Smartphone Applications Affect Travel Decisions", *Sustainable Cities and Society*, Vol. 53, 1019393.
- Jamal, S. and **Habib, M.A.** (2019). "Investigation of the Use of Smartphone Applications for Trip Planning and Travel Outcomes", *Transportation Planning and Technology*, Vol. 42, Issue 3, pp. 227-243.
- McCarthy, S., Grant, J.L. and **Habib, M.A.** (2019). "Evaluating Strategies for Plan Coordination: A Survey of Canadian Planners", *International Planning Studies*, Vol. 25, Issue 2, pp. 222-235.
- Alam, M. J., **Habib, M. A.**, and Venkatadri, U. (2019). "Development of a Multimodal Microsimulation-based Evacuation Model", *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2673, Issue 10, pp. 477-488.
- Alam, M. J., and **Habib, M. A.** (2019). "Vulnerability Assessment During Mass Evacuation: An Integrated Microsimulation-based Evacuation Modeling Approach", *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2673, Issue 10, pp. 225-238.
- Fatmi, M. R. and **Habib, M. A.** (2019). "Modeling Vehicle Collision Injury Severity Involving Distracted Driving: Assessing the Effects of Land Use and Built Environment", *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2673, Issue 7, pp. 181-191.
- McCarthy, S. and **Habib, M.A.** (2018). "Investigation of Life Satisfaction, Travel, Built Environment and Attitudes", *Journal of Transport and Health*, Vol. 11, pp. 15-24.
- Fatmi, M.R. and **Habib, M.A.** (2018). "Microsimulation of Life-stage Transitions and Residential Location Transitions within a Life-oriented Integrated Urban Modeling System", *Computers, Environment, and Urban Systems*, Vol. 69, pp. 87-103.
- Khan, N.A. and **Habib, M.A.** (2018). "Evaluation of Preferences for Alternative Transportation Services and Loyalty towards Active Transportation during a Major Transportation Infrastructure Disruption", *Sustainability*, Vol. 10, Issue 6, pp. 2050(1-14).
- Fatmi, M.R., and **Habib, M.A.** (2018). "Microsimulation of Vehicle Transactions within a Life-oriented Integrated Urban Modeling System", *Transportation Research Part A: Policy and Practice*, Vol. 116, pp. 497-512.
- Habib, M.A.**, Olajide, B., Terashima, M. and Campbell, S. (2018). "Relationship between Neighborhood Characteristics and Emergency Health Services Vehicle Demand: A Poisson Hurdle Regression Modeling Approach", *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2672, Issue 3, pp. 80-91.

- Alam, M.J., **Habib, M.A.**, Quigley, K. and Webster, T. (2018). "Evaluation of the Traffic Impacts of Mass Evacuation of Halifax: A Flood Risk and Dynamic Traffic Microsimulation Modeling", *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2672, Issue 1, pp. 148-160.
- Fatmi, M.R., Chowdhury, S. and **Habib, M.A.** (2017). "Life History-oriented Residential Location Choice Model: A Stress-based Two-tier Panel Modeling Approach", *Transportation Research Part A: Policy and Practice*, Vol. 104, pp. 293-307.
- Fatmi, M.R. and **Habib, M.A.** (2017). "Modelling Mode Switch Associated with the Change of Residential Location", *Travel Behaviour and Society*, Vol. 9, pp. 21-28.
- Hall, N., Grant, J. and **Habib, M.A.** (2017). "Planners' Perceptions of Why Canadian Communities Have Too Many Plans", *Planning Practice and Research*, Vol. 32, Issue 3, pp. 1-16.
- Fatmi, M.R. and **Habib, M.A.** (2016). "Life-oriented Approach of Modeling Commute Mode Loyalty and Transition Behaviour", *Transportation Research Record: Journal of Transportation Research Board*. No. 2565, pp. 37-47.
- Irin, S. and **Habib, M.A.** (2016). "Microsimulation-Based Emission Modeling for a Major Infrastructure Renewal Plan: Assessment of Network Attributes and Land Use Effects on Vehicular Emissions", *Transportation Research Record: Journal of Transportation Research Board*. No. 2570, pp. 127-138.
- Fatmi, M.R. and **Habib, M.A.** (2016). "Longitudinal Vehicle Transaction Model: Assessment of Lead and Lagged Effects of Longer-term Changes and Life-cycle Events", *Transportation Research Record: Journal of Transportation Research Board*, No. 2566, pp. 11-21.
- Fatmi, M.R. and **Habib, M.A.** (2016). "Modeling Travel Tool Ownership of the Elderly Population: Latent Segmentation-based Logit Model", *Transportation Research Record: Journal of Transportation Research Board*. No. 2565, pp. 18-26.
- Fatmi, M.R. and **Habib, M.A.** (2015). "Spatial Transferability of Microresidential Mobility Model in the Integrated Land Use, Transportation and Environment Modeling System", *Transportation Research Record: Journal of the Transportation Research Board* No. 2496, pp. 29-36.
- Daisy, N.S. and **Habib, M.A.** (2015). "Investigating the Role of Built Environment and Lifestyle Choices in Active Travel for Weekly Home-Based Non-work Trips", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2500, pp. 125-132.
- Forbes, J.J. and **Habib, M.A.** (2015). "Pedestrian Injury Severity Levels in the Halifax Regional Municipality, Canada: A Hierarchical Ordered Probit Modeling Approach", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2519, pp. 172-178.
- Fatmi, M.R., **Habib, M.A.** and Salloum, S.A. (2014). "Modeling Mobility Tool Ownership of Youth in Toronto, Ontario, Canada", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2413, pp. 92-100.
- Habib, M.A.** and Daisy, N.S. (2013). "Modeling Frequency and Duration of Out-of-home Participation in Physical Activity by School-Age Children", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2357, pp. 116-124.
- Habib, M.A.**, Miller, E.J. and Mans, B.T. (2011). "Modeling of Job Mobility and Location Choice Decisions", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2255, pp. 69-78.
- Habib, M.A.** and Miller, E.J. (2009). "Reference Dependent Residential Location Choice Model within a Relocation Context", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2133, pp. 92-99.
- Habib, M.A.** and Miller, E.J. (2008). "Influence of Transportation Access and Market Dynamics on Property Values: Multilevel Spatio-Temporal Models of Housing Price", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2076, pp. 183-191.

**Peer-reviewed Papers in conference proceedings**

Alam, M. J. and **Habib, M. A.** (2020). "Modeling Traffic Disruptions during Mass Evacuation". *Procedia Computer Science*, Vol. 170, 506-513.

**Habib, M.A.**, and Walker, K.E. (2020). "Scenario Planning for the Future of Disruptive Transportation Technologies: A Community-Partnered Approach", Peer-reviewed proceedings of 99th Annual Meeting of the Transportation Research Board (TRB), Washington DC, January 12-16, 2020.

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- Rahman, M. and **Habib, M.A.** (2015). "Evaluating Alternate Transit Options in Halifax Regional Municipality (HRM) using Travel Demand Forecasting Model Informed by a Stated Preference Survey", 50<sup>th</sup> Annual Conference of Canadian Transportation Research Forum (CTRF), Montreal, QC, May 24-27, pp. 453-467
- Hafezi, M.H. and **Habib, M.A.** (2015). "Development and Evaluation of an Algorithm to Produce the Population in regional level and dissemination area level", 50<sup>th</sup> Annual Conference of Canadian Transportation Research Forum (CTRF), Montreal, QC, May 24-27, pp.468-482
- Fatmi, M.R. and **Habib, M.A.** (2015). "A Longitudinal Investigation of Residential Location Choice: Fuzzy Logic-Based Choice Set Generation and Panel Location Choice Models", International Choice Modelling Conference, Austin, Texas, May 10-13.
- Khan, N.A. and **Habib, M.A.** (2014). "Modelling Household Vehicle Ownership State: A Hazard-based Duration Model Approach", 61st North American Meeting of the Regional Science Association International, Washington, D.C., November 12–15.
- Witherbee, S. and **Habib, M.A.** (2014). "Modeling the Current and Future Intended Use of Cycling and Walking in Colchester County, Nova Scotia, Canada: An Ordered Probit Modeling Approach", 61st North American Meeting of the Regional Science Association International, Washington, D.C., November 12–15.
- Daisy, N.S. and **Habib, M.A.** (2014). "Investigation of Out-of-home Discretionary Activities for Individuals in Nova Scotia, Canada: A Latent Class Accelerated Hazard Modelling Approach", 61st North American Meeting of the Regional Science Association International, Washington, D.C., November 12–15.
- Salloum, S. and **Habib, M.A.** (2014). "A Composite Network Distance-based Accessibility Measure (CNAM)", 61st North American Meeting of the Regional Science Association International, Washington, D.C., November 12–15.
- Hafezi, M.H. and **Habib, M.A.** (2014). "Optimization Model of Bus Travel Time with Stop-skipping Scheme", 49<sup>th</sup> Annual Conference of Canadian Transportation Research Forum (CTRF), Windsor, ON, June 1-4, pp. 314-328

Forbes, J.J. and **Habib, M.A.** (2014). "Investigation of Pedestrian Injury Severity Levels in the Halifax Regional Municipality", 49<sup>th</sup> Annual Conference of Canadian Transportation Research Forum (CTRF), Windsor, ON, June 1-4, pp. 608-622

**Habib, M.A.**, Shaw, N. and Siabanis, N. (2013). "Modeling Residential Location of the Elderly Population in the Greater Toronto and Hamilton Area, Canada", 49<sup>th</sup> Annual Conference of Canadian Transportation Research Forum (CTRF), Windsor, ON, June 1-4.

Fatmi, M.R., **Habib, M.A.**, and Salloum, S.A. (2014). "Investigation of Households' Short-term and Long-term Responses to the Increase in Gas Price", World Symposium on Transport and Land Use Research, Delft, Netherlands, June 24-27.

**Habib, M.A.**, Siabanis, N. and Stone, S. (2014). "Share the Road Nova Scotia, Developing a Multi-platform Social Marketing Engagement Strategy", 93<sup>rd</sup> Annual Meeting of Transportation Research Board (TRB), Washington D.C., January 12-16.

Forbes, J.J. and **Habib, M.A.** (2013). "Modelling Bicyclists' Injury Severity Levels in the Province of Nova Scotia", 60<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Atlanta, GA, November 13-16.

Stone, S. and **Habib, M.A.** (2013). "Estimation of Social Indicators of Sustainable Transportation using Time Use data", 60<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Atlanta, GA, November 13-16.

Salloum, S. and **Habib, M.A.** (2013). "Travel Behaviour of Dalhousie University Commuters: A Descriptive and Comparative Analysis of Commuter Patterns from 2009 to 2012", 60<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Atlanta, GA, November 13-16.

Fatmi, M.R. and **Habib, M.A.** (2013). "Analyzing Mobility Tool Ownership of the Youth in Toronto: A Latent Class Modelling Approach", 60<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Atlanta, GA, November 13-16.

Daisy, N.S. and **Habib, M.A.** (2013). "Modelling Factors affecting Mode Choice Behaviour for School Trips and Non-school Trips in Dhaka City, Bangladesh", 13<sup>th</sup> World Conference on Transportation Research (WCTR), Rio de Janeiro, Brazil, July 15-18.

Fatmi, M.R., and **Habib, M.A.** (2013). "Modeling Mode Switching Behaviour Associated with the Change of Residential Location using Longitudinal Data", 13<sup>th</sup> World Conference on Transport Research (WCTR), Rio de Janeiro, Brazil, July 15-18.

Shaw, N. and **Habib, M.A.** (2012). "Examining Factors Affecting Residential Location and Mobility Tool Ownership of the Elderly", 59<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Ottawa, ON, November 7-10.

Peterlin, M. and **Habib, M.A.** (2012). "Examining the Effects of Attitudes and Lifestyle Choices on Travel Behaviour", 59<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Ottawa, ON, November 7-10.

Leckovic, K. and **Habib, M.A.** (2011). "The Role of Public Transit in Mass Evacuations: A Case Study of Halifax, Nova Scotia, Canada", 58<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Florida, USA, November 9-12.

Richardson, D. and **Habib, M.A.** (2011). "Evaluation of Transit Alternatives for the Bedford-Halifax Corridor: A Stated Preference Study", 58<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Florida, USA, November 9-12.

**Habib, M.A.**, Richardson, D., Leckovic, K. and Haj-Issa, L. (2011). "Planning for Inclusive Transportation: Issues, Challenges and Opportunities for New Immigrants", 58<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Florida, November 9-12.

MacDonald, S. and **Habib, M.A.** (2010). "Elderly vs. Non-Elderly Travel Behaviour: How Different Are They?", 57<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Denver, USA, November 10-13.

**Habib, M.A.**, Miller, E.J. and Mans, B.T. (2010). "Modeling Persons' Job Mobility and Location Choice Decisions for an Integrated Land Use and Transportation Modeling System", 12<sup>th</sup> World Conference on Transportation Research (WCTR), Lisbon, Portugal, July 11-15.

Miller, E.J., **Habib, M.A.**, Farooq, B. and Hatzopoulou, M. (2009). "Integrated Urban Modeling for Integrated Urban Planning", 1<sup>st</sup> Annual International Conference on Transportation and Logistics (TRANSLOG), Hamilton, Ontario, June 17-18.

Miller, E.J., Farooq, B. and **Habib, M.A.** (2009). "A Microsimulation Housing Market Clearing Model", 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur, India, December 13-18.

**Habib, M.A.** and Miller, E.J. (2009). "Microsimulating Housing Demand", 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur, India, December 13-18.

**Habib, M.A.**, Farooq, B. and Miller, E.J. (2008). "A Microsimulation Model of Residential Location Processes", 55<sup>th</sup> Annual North American Meeting of the Regional Science Association International, New York, USA, November 19-22.

Farooq, B., **Habib, M.A.**, Miller, E.J. and Haider, M. (2008). "Dynamic Microsimulation of Housing Market for the Greater Toronto Area within the Integrated Land Use, Transport and the Environment (ILUTE) framework", 55<sup>th</sup> Annual North American Meeting of the Regional Science Association International, New York, USA, November 19-22.

**Habib, M.A.**, Miller, E.J. and Farooq, B. (2008). "A Residential Location Choice Model for the Greater Toronto Area", 55<sup>th</sup> Annual North American Meeting of the Regional Science Association International, New York, USA, November 19-22.

**Habib, M.A.** and Miller, E.J. (2007). "Investigating Spatial Dwelling Search Duration applying Frailty Models and Modeling Frequency of Vacancy Visit using Ordered Probit Models", 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, Georgia, November 8-11.

**Habib, M.A.** and Miller, E.J. (2007). "Modeling Time-on-the-Market of Residential Properties and Influence of Duration on the Property Selling Price", 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, Georgia, November 8-11.

**Habib, M.A.** and Miller, E.J. (2007). "Estimating Multilevel Housing Price Model to account for Spatial and Temporal Heterogeneity", 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, Georgia, Nov. 8-11.

**Habib, M.A.** and Miller, E.J. (2007). "Residential Mobility and Spatial Search Behaviour: Evidence from the Greater Toronto Area", 6<sup>th</sup> Triennial Symposium on Transportation Analysis (TRISTAN VI), Phuket Island, Thailand, June 10-15.

**Habib, M.A.** and Miller, E.J. (2006). "Stressor-based Binary Choice Panel Data Model Estimation of Residential Mobility Decisions for Integrated Land Use and Transportation Modeling Systems", 53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International, Toronto, ON, November 16-18.

**Habib, M.A.** and DiFrancesco, R.J. (2005). "Application of Input-Output Techniques in Freight Transportation Modeling", 52<sup>nd</sup> Annual North American Meeting of the Regional Science Association International, Las Vegas, Nevada, November 9-12.

**Habib, M.A.** and Miller, E.J. (2005). "Dynamic Residential Mobility Decision Choice Model in ILUTE Framework", 52<sup>nd</sup> Annual North American Meeting of the Regional Science Association International, Nevada, USA, November 9-12.

**Habib, M.A.**, Ferdous, F. and Maniruzzaman, K.M. (2005). "Examining Impacts of Transportation on Residential Property Values using Geographical Information System: A Hedonic Price Model Approach", 40<sup>th</sup> Annual Conference of Canadian Transportation Research Forum (CTRF), Hamilton, ON, pp. 14-28.

**Habib, M.A.** and Nabi, A.S.M.M.U. (2003). "Impacts of Land Use and Transportation System on Urban Form and Structure of Dhaka City", International Seminar on Architecture: Overcoming Constraints, Dhaka, Bangladesh, June 11-13, pp 167-176.

### Technical Reports (selected)

**Habib, M.A.** (2019). "*Halifax Regional Municipality Travel Activity Study*". Halifax Regional Municipality, Halifax (62 pages).

**Habib, M.A.** and Walker, K. (2019). "*Connectsmart 2.0 Project: Scenario Planning for Technology-Based Mobility Opportunities in Nova Scotia*". Nova Scotia Department of Energy and Mines, Halifax (57 pages).

Walker, K., and **Habib, M.A.** (2019). "*Dalhousie University Commuter Study 2019-2020*". Dalhousie University Office of Sustainability, Halifax (48 pages).

**Habib, M.A.** and Lynn, R. (2019). "*Technology-based Evaluation of Active Transportation Infrastructure Projects: Training and Data Collection*". Nova Scotia Department of Energy and Mines, Halifax (41 pages).

Walker, K., McCarthy, S. and **Habib, M.A.** (2018). "*Dalhousie University Commuter Study 2018-2019*". Dalhousie University Office of Sustainability, Halifax (46 pages).

**Habib, M.A.** (2018). "*Sensing New Mobility: Performance Evaluation of Transport Infrastructure in Nova Scotia Communities*". Nova Scotia Department of Energy, Halifax (28 pages).

**Habib, M.A.** (2018). "*Connect Smart Project: Rethinking Mobility for All*". The Province of Nova Scotia, Halifax (59 pages).

**Habib, M.A.** (2017). "*Tracking Progress 2016: Estimation of Transport Energy Use, Emission and Travel Choices in the Province of Nova Scotia*". Nova Scotia Department of Energy, Halifax (52 pages).

Campbell, S.J., **Habib, M.A.** and McCarthy, S. (2017). "*Dalhousie University Commuter Study 2017*". Dalhousie University Office of Sustainability, Halifax (62 pages).

Muir, A., Irin, S. and **Habib, M.A.** (2017). "*Town of Bridgewater Public Transit Feasibility Study Final Report*". Town of Bridgewater (80 pages).

**Habib, M.A.** (2016). "*Nova Scotia Sustainable Transportation Indicators*". Government of Nova Scotia, Halifax (51 pages).

Campbell, S.J. and **Habib, M.A.** (2016). "*Dalhousie University Commuter Study*". Dalhousie University Office of Sustainability, Halifax (69 pages).

**Habib, M.A.** (2016). "*Nova Scotia Travel Activity (NovaTRAC) survey: Travel Choices and Behaviour*". Nova Scotia Department of Energy, Halifax (60 pages).

Matheson, S. and **Habib, M.A.** (2016). "*Emission Study 2015: An Accounting Approach to Estimating Greenhouse Gas Emissions and Fuel Consumption from Nova Scotia's Road Passenger Transportation*", Working Paper, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (28 pages).

**Habib, M.A.** (2016). "*Municipal Reporting Survey 2015: Active Transportation Infrastructure and Plans*", Working Paper, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (6 pages).

**Habib, M.A.** (2015). "*Nova Scotia Sustainable Transportation Indicators*", Working Paper, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (51 pages).

**Habib, M.A.** (2015). "*Sustainable Transportation: Nova Scotia Community Profile*", Working Paper, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (100 pages).

**Habib, M.A.** (2014). "*Nova Scotia Baseline Indicators – Transportation Data and Modelling*", Dalhousie Transportation Collaboratory (DalTRAC) Progress report Vol. 1 (NS Department of Energy), Halifax (155 pages).

Forbes, J. and **Habib, M.A.** (2014). “*Nova Scotia Collision Study 2007-2011*”, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (30 pages).

Megenbir, L., **Habib, M.A.** and Salloum, S. (2014). “Travel Behaviour of Dalhousie University Commuters 2013, A Multi-year Comparative Study (2009-2013)”, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (78 pages).

Megenbir, L. and **Habib, M.A.** (2014). “The State of Active Transportation in Nova Scotia”, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (50 pages).

**Habib, M.A.** (2014). “*Travel Behaviour Modeling and Analysis – Transportation Data and Modelling*”, DalTRAC Progress report Vol. 2 (NS Department of Energy), Halifax (196 pages).

**Habib, M.A.** (2014). “*Community-based “Share the Road” Awareness Campaign Program for Nova Scotians*”, Final report (Nova Scotia MOVES), Halifax (183 pages).

Peterlin, M. and **Habib, M.A.** (2013). “*Examining the Effects of Attitudes and Lifestyle Choices on Travel Behaviour in the Halifax Regional Municipality*”, Clean Nova Scotia Foundation, Halifax (85 pages).

Stephanie, S. and **Habib, M.A.** (2013). “*Travel Behaviour of Dalhousie University Commuters -A Comparative Analysis of Dalhousie Sustainability Surveys 2009-2012*”, Dalhousie University Office of Sustainability, Halifax (82 pages).

Baglo, K., **Habib, M.A.** and Peterlin, M. (2013). “*Share the Road: Improving Road Safety for all Users in Nova Scotia*”, Dalhousie Transportation Collaboratory (DalTRAC), Halifax (81 pages).

Heffernan, S. and **Habib, M.A.** (2013). “*Investigating the Influence of Long-term Decisions on Transportation Choices and Travel Behaviour in the Halifax Regional Municipality*”, Clean Nova Scotia Foundation, Halifax (108 pages).

Richardson, D., **Habib, M.A.**, and Peterlin, M. (2012). “*Travel Behaviour of Dalhousie University Commuters: A Comparative Analysis using Dalhousie Sustainability Survey 2009, 2010 and 2011*”, Dalhousie University Office of Sustainability, Halifax (61 pages).

**Habib, M.A.**, Richardson, D., Leckovic, K., and Haj-Issa, L. (2012). “*Planning for Inclusive Transportation: Issues, Challenges and Opportunities for New Immigrants*”. Atlantic Metropolis Centre, Halifax (116 pages).

**Habib, M.A.**, Richardson, D., Leckovic, K. (2011). “*Travel Behaviour Study of Commuters: Results from the 2010 Dalhousie University Sustainability Survey*”, Dalhousie University Office of Sustainability, Halifax (58 pages).

CEU and **Habib, M.A.** (2011). “*Exploring Public Transit for the Region of Queens Municipality: Needs Assessment, Feasibility Study and Pilot Project Delivery*”, Ecology Action Centre and the Council of RQM, Halifax.

Miller, E.J., Farooq, B., **Habib, M.A.** (2008). “*Microsimulating Spatial Markets: Conceptual Design and Implementation of a Housing Market Model*”, Volume V, Development of an Operational Integrated Urban Model System, Urban Transportation Research and Advancement Centre, University of Toronto.

Miller, E.J., Chingcuanco, F., Farooq, B., Habib, K.M.N. and **Habib, M.A.** (2008). “*Demographic and Labour Market Updating*”, Volume IV, Development of an Operational Integrated Urban Model System, Urban Transportation Research and Advancement Centre, University of Toronto.

## Dissertation

**PhD Thesis** (2009): “*Microsimulating Residential Mobility and Location Processes for an Integrated Land Use and Transportation Modeling System*”, Department of Civil Engineering, University of Toronto

*Supervisor:* Professor Eric J. Miller (Civil Engineering, University of Toronto)

*Committee members:* Professor Amer Shalaby, Professor Mathew Roorda (Civil Engineering, University of Toronto); Professor Richard DiFrancesco (Geography and Planning, University of Toronto), and Professor Paul Waddell (External, University of California, Berkeley)

### **Keynote/invited presentations**

**Habib, M.A.** “Planning for Connected, Autonomous, Shared and Electric Mobility”, Invited speaker, Professional Development Program (for credit), Licensed Professional Planners Associations of Nova Scotia (LPPANS) Lunch and Learn Webinar, June 25, 2020.

**Habib, M.A.** “ConnectSmart Partnership: A multi-disciplinary Approach to Plan for Connected, Autonomous, Shared, and Electric Mobility”, Invited Speaker, 2019 CAA Atlantic Hackathon, November 29, 2019.

**Habib, M.A.** “Smart Cities & Communities: A Traffic Perspective”, Invited speaker, Geomatics Association of Nova Scotia (GANS) Professional Development Seminar, Halifax, November 26, 2019.

**Habib, M.A.** “Travel Demand, Energy Use and Our Future in Nova Scotia: A Framework for a Comprehensive Monitoring and Modelling Approach”, Invited speaker, Nova Scotia Energy R&D Conference, Halifax, May 21-22, 2014.

**Habib, M.A.** “Critical Challenges in Transportation: Past, Present and Future”, Keynote speaker, TAC 100<sup>th</sup> anniversary celebration, Cross-country Transportation 2014 lecture tour, Halifax, March 19, 2014.

**Habib, M.A.** “Transportation Data and Modelling Centre for Sustainable Transportation Planning, Invited speaker, 4<sup>th</sup> Annual Road Safety Conference, Halifax, March 19, 2013.

**Habib, M.A.** “Game Changers in Travel Behaviour”, Plenary speaker, Closing Ceremony, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto, ON, July 15-20, 2012.

**Habib, M.A.** “Applications of Intelligent Transportation System (ITS) and Future Proof Technologies for Transportation Management and Planning”, Invited speaker, Professional Development Program (for credit), Licensed Professional Planners Association of Nova Scotia (LPPANS), July 2011.

**Habib, M.A.** “Introduction to ILUTE Modeling System”, Invited speaker, Meeting of Professional Engineers Ontario (PEO), North Toronto Chapter, October 24, 2007.

### **Presentations (conference, professional conference and public)**

**Habib, M.A.** “Relationships Between Travel Behaviour and Health: Results from the 2018 NovaTRAC Halifax Survey”, TAC-ITS Canada Joint Conference and Exhibition, Halifax, NS, September 25, 2019.

**Habib, M.A.** and Walker, K.E. “Preparing for New Mobility: Identification of Planning Considerations and Research Needs Through a Participatory Approach”, TAC-ITS Canada Joint Conference and Exhibition, Halifax, NS, September 25, 2019.

Khan, N.A. and **Habib, M.A.** “Microsimulation of Mode Choice Decisions within an Activity-based Shorter-term Decisions Simulator”, TAC-ITS Canada Joint Conference and Exhibition, Halifax, NS, September 25, 2019.

**Habib, M.A.** and Bela, P.L. “Development of an Urban Transport Network and Emission Model for the Port City of Halifax, Canada”, TAC-ITS Canada Joint Conference and Exhibition, Halifax, NS, September 25, 2019.

**Habib, M.A.** “Sink or Swim: A Panel Discussion on Decision to Emergency Management”, Invited speaker, TAC-ITS Canada Joint Conference and Exhibition, Halifax, NS, September 24, 2019.

**Habib, M.A.** “NovaTRAC: Halifax Regional Municipality Travel Activity Study”, Institute of Transportation Engineers (ITE) Atlantic Provinces Section Spring Meeting, Halifax, May 9, 2019.

**Habib, M.A.** “Evacuating in a Halifax Flood Scenario: Lessons Learned from a Dynamic Traffic Microsimulation Model”, Marine Environmental Observation Prediction and Response Networks (MEOPAR), Halifax, NS, March 1, 2018.

Alam, M.J. and **Habib, M.A.** “How Public Transportation Could Improve the Evacuation of Halifax Peninsula”, 14<sup>th</sup> Annual Symposium of Canadian Risk and Hazards Network (CRHNet), Halifax, NS, October 27, 2017.

**Habib, M.A.** “Mass Evacuation Traffic Simulation Model for Halifax Peninsula: Lessons Learned”, Canadian Red Cross, Halifax, NS, October 17, 2017

**Habib, M.A.** “Evacuation of Halifax Peninsula: A Dynamic Microsimulation Modelling of Halifax Peninsula”, Institute of Transportation Engineers (ITE) Atlantic Provinces Section Spring Meeting, Halifax, NS, May 25, 2017.

Fatmi, M.R. and **Habib, M.A.** “Results of the Agent-based Integrated Urban Systems Model for Halifax”, Institute of Transportation Engineers (ITE) Atlantic Provinces Section Spring Meeting, Halifax, NS, May 25, 2017.

**Habib, M.A.** Evacuating Halifax Peninsula: “A Dynamic Traffic Microsimulation Modelling Approach” MacEachen Institute for Public Policy and Governance, Halifax, Mach 28, 2017.

**Habib, M.A.** “Traffic Simulation Modelling for the Assessment of Re-decking the Macdonald Suspension Bridge”, MacEachen Institute for Public Policy and Governance, Halifax, NS, June 1, 2016.

**Habib, M.A.** “Traffic Simulation Modelling to Assess Vulnerabilities of Re-decking of the Macdonald Suspension Bridge”, Institute of Transportation Engineers (ITE) Atlantic Provinces Section Spring Meeting, Halifax, May 19, 2016.

Khan, N. A. and **Habib, M.A.** “Modelling of Households’ Vehicle Transaction and Type Choice Decisions for the Halifax Integrated Transport, Land Use and Energy (iTLE) Model”, Institute of Transportation Engineers (ITE) Atlantic Provinces Section Spring Meeting, Halifax, May 19, 2016.

**Habib, M.A.** “Sustainable Transportation Indicators: Progress Report of Nova Scotia Transportation Data and Modeling Centre”, Presentation to Provincial Committee, NS Department of Energy, Halifax, July 29, 2014.

**Habib, M.A.** “Transport and Mobility: How can we Track Progress in Sustainable Transportation and Influence People’s Travel Behaviour?” Panel presenter, 2014 CIP/API Annual Conference – People Matter! Fredericton, NB, July 9-12, 2014.

Siabanis, N., Stone, S. and **Habib, M.A.** “Thumbs Up! Share the Road Nova Scotia”, 2013 CIP/API Annual Conference, Charlottetown, PEI, October 2-4, 2013.

**Habib, M.A.** “Dalhousie Transportation Collaboratory: Fostering a Multidisciplinary Transport Research Agenda”, Plan Out Loud Lunch Lecture, Dalhousie School of Planning, Halifax, April 9, 2013.

**Habib, M.A.** “Share the Road for Nova Scotians: Updates on Research and Consultation”, Nova Scotia Road Safety Advisory Committee meeting, Halifax, March 6, 2013.

**Habib, M.A.** “Share the Road for Nova Scotians: Developing a Road-safety Research Stream within DalTRAC”, Invited presentation, Road Safety Advisory Committee Meeting, Department of Transportation and Infrastructure Renewal, Halifax, September 6, 2012.

**Habib, M.A.** “Overview of the DalTRAC Research Program”, Invited presenter, Inter-departmental Committee Meeting, Department of Health and Wellness, Province of Nova Scotia, Halifax, August 8, 2012.

**Habib, M.A.** “Developing a Transportation Research Program through the DalTRAC Project”, Institute of Transportation Engineers (ITE) Atlantic Provinces Section Spring Meeting, Halifax, May 10, 2012.

**Habib, M.A.** “Halifax Transit Network Design”, Keynote speaker (day 2), Its More Than Buses event, Planning and Design Centre and Fusion Halifax, 2011.

**Habib, M.A.** “Pulling it all Together - Public Transport Synergy for Atlantic Canada”, Panel speaker, Annual General Meeting (AGM), Transport Action Atlantic, Dartmouth, May 14, 2011.

**Habib, M.A.** “Travel Behaviour and Travel Demand Forecasting for Sustainable Transportation Planning”, Invited presenter, Halifax Regional Municipality Workshop, Alderney Gate, August 27, 2010.

## TEACHING INTERESTS

- Transportation Planning
- Transportation and Land Use
- Transport Operations
- Travel Demand Modelling
- Road Safety Management
- Sustainable and Smart City Design
- Planning Research Methods
- Planning Studio and Workshop
- Disaster Management Planning

## TEACHING EXPERIENCES

*Courses offered at the Dalhousie University (2010 – present):*

PLAN 4106/6106 Transportation Planning (Winter 2010 - present)	Graduate & undergrad
PLAN 3053 Transportation and Land Use (Winter 2018 - present)	Undergraduate
PLAN 5302/04 Planning Research Method (Winter 2010 - 2014)	Graduate
CIVL 6139 Transport Operations (Winter 2014 - present)	Graduate
CIVL 7000/PLAN6201/4200 Transport Modelling (Fall 2013 - present)	Graduate & undergrad
PLAN 2010 Sustainable Community Design (Fall 2010)	Undergraduate
PLAN3006 Reading the Landscape (Winter 2015 - 2016)	Undergraduate
PLAN 5000 Planning Studio (Fall 2010 and 2012- present)	Graduate

*Courses offered at the University of Toronto (2008 – 2009):*

GGRA30 Geographic Information Systems (GIS) and Empirical Reasoning, (2008 and 2009, Fall), 100+ students	Undergraduate
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*Teaching assistants at the University of Toronto (2004 – 2009)*

CIV531 Transportation Planning (Fall 2007 and 2008)	Graduate & undergrad
CIV231 Introduction to Transportation System (Spring 2007 - 2009)	Undergraduate
CIV263 Probability Theory for Civil Engineers (Spring 2005 and 2006)	Undergraduate
CIV261 Engineering Mathematics I (Fall 2005 and 2006)	Undergraduate
CIV362 Engineering Mathematics II (Fall 2004)	Undergraduate

## STUDENT SUPERVISION

### Post-Doctoral Research Associate

**Dr. Mahmudur Rahman Fatmi**, “Coupling Mechanisms in the Integrated Transportation, Land Use and Energy (iTLE) Modelling System”, Nov. 2017–July 2018 (joined as a tenure-track Assistant Professor at the School of Engineering, University of British Columbia, Okanagan)

**Dr. Nazmul Arefin Khan**, “COVID-19 Transportation Systems Planning: Application of Activity-based Modelling Approach”, May – September 2020 (joining as a post-doc in the Polytechnique Montréal, Quebec)

### Graduate Students Supervised

	<i>MPLAN/ MEng</i>	<i>MPS</i>	<i>MASc</i>	<i>PhD</i>	<i>Other</i>	<i>Total</i>
<b>Current</b>	3	0	4	2	0	9
<b>Completed, Last Year</b>	4	0	0	1	1	6
<b>Completed, Last 5 Years</b>	15	4	4	2	3	30
<b>Completed, Lifetime</b>	30	4	10	4	5	53

### PhD Students (Lifetime: 4; Last 5 years: 4)

<i>Student</i>	<i>Program</i>	<i>Topic</i>	<i>Role, period</i>
Hasan Shahrier	PhD (Civil Engineering)	COVID-19 Scenario Simulation using an Activity-based Travel Demand Modelling System	Supervisor; 2020 - present
Jahedul Alam	PhD (Civil Engineering)	Dynamic Traffic Microsimulation for Mass Evacuation	Supervisor, 2016 - present
Nazmul Khan	PhD (Civil Engineering)	Modelling Short-term Travel Choices and Vehicle Allocation	Supervisor, 2016 - 2020
Mahmudur Fatmi	PhD (Civil Engineering)	Life-oriented Simulation Model of Urban Systems	Supervisor, 2012 - 2017

### Master's (thesis) Students (Lifetime: 14; Last 5 years: 8)

Md Asif Hasan Anik	MASc (Civil Engineering)	Application of Integrated Transportation, Land Use and Energy Modelling System for Long-term Impact Assessment of COVID-19	Supervisor; 2019 - present
Hasan Shahrier	MASc (Civil Engineering)	Validation of an Activity-based Travel Demand Modelling System	Supervisor; 2019 - 2020
Fariba Hossain	MASc (Civil Engineering)	Examining Economic Impact of COVID-19 at the Municipal Level	Supervisor; 2019 - present
Krishna Avala	MASc (Civil Engineering)	Virtual Reality Modelling for Vehicle Pedestrian Interactions	Supervisor; 2019 - present
Pauline Bela	MASc (Civil Engineering)	Transport and Emission Modeling for HRM	Supervisor; 2016 - 2018
Babatope Olajide	MASc (Civil Engineering)	Modelling of Emergency Vehicle Demand	Supervisor, 2015 - 2017

Jahedul Alam	MASc (Civil Engineering)	Microsimulation Model of Traffic Impacts During the Redecking of the MacDonald Bridge	Supervisor, 2014 - 2016
Mahbubur Rahman	MASc (Civil Engineering)	Transport Network Model of Halifax	Supervisor, 2013 - 2016
Nazmul Khan	MASc (Civil Engineering)	Longitudinal Modelling of Households' Vehicle Transaction/Type Choice Decisions	Supervisor, 2013 - 2015
Shaila Jamal	Master of Planning Studies	The Impact of the Use of Smartphone Technologies on Travel Choices	Supervisor, 2014 - 2016
Justin Forbes	Master of Planning Studies	Nova Scotia Collision Study and Injury Severity Models	Supervisor, 2013 - 2015
Stephanie Salloum	Master of Planning Studies	Characterizing Travel Behaviour and Accessibility in the HRM	Supervisor, 2013 - 2015
Caroline Robertson	Master of Planning Studies	Travel Behaviour and Transportation Challenges of Households with Pre School-aged children	Supervisor, 2012 - 2016

### **Master's (project) Students Supervised** (Lifetime: 30; Last 5 years: 15)

**Sarah Elliott**, MPLAN, *Harmony or Disconnect in Climate Change Adaptation and Mitigation Plans in Canada*, 2019-present

**James Coons**, MPLAN, *Developing a Web-Based GIS Application Using an Agent-Based Integrated Transportation and Land-Use Microsimulation Model in the Halifax Regional Municipality*, 2019-present

**Harrison Ellis**, MPLAN, *Investigating the Attitudes of Transit-Users in Halifax, Nova Scotia*, 2019-present

**Alexander W.D. Glista**, MPLAN, *Scenario Planning for Connected Autonomous Vehicles in the Context of Energy Use*, 2018-20

**John Jardine**, MPLAN, *Connected, Autonomous, Shared, and Electric (CASE) Vehicles Through a Demographic Lens*, 2018-20

**Linden Maultsaid-Blair**, MPLAN, *Exploring the Relationship Between Tour Complexity and Health in Halifax Transit and Auto Riders*, 2018-20

**Lorin Komers**, MPLAN, *Online Retail in a Changing Physical Landscape*, 2018-20

**Dinesh Guru**, MEng., *Traffic Simulation Modelling for Autonomous Vehicles*, 2018-19

**Utkarsh Patel**, MEng., *Development of Nova Scotia Transport Network Model*, 2018-20

**Julien Lacroix**, MPLAN, *Traffic Operational Design for Evacuation Routing*, 2017-19

**Stephen McCarthy**, MPLAN, *Investigating Subjective Well-being and Travel Behaviour*, 2016-18

**Areej Ashraf**, MPLAN, *Ride-sharing Services: Evaluation of Regulatory Frameworks and Public Discourse*, 2016-18

**Spencer Matheson**, MPLAN, *Estimation of Emission and Energy Use in Nova Scotia*, 2014-16

**Dylan Smith**, MPLAN, *Pedestrian Network Analysis*, 2014-16

**Sara Jellicoe**, MPLAN, *Transport Infrastructure Indicators*, 2014-16

**Levi Megenbir**, MPLAN, *Estimating Fuel Consumption and Vehicle Emissions from Multi-Year Travel Survey Data*, 2013-15

**Nathan Hall**, MPLAN, *Breaching the Silo: Exploring Interdepartmental Coordination in Canadian Land Use Planning*, 2013-15 (co-supervised with Dr. Jill Grant)

**Stephen Stone**, MPLAN, *Measuring Sustainability Indicators using Time-use Data*, 2012-14

**Niki Siabanis**, MPLAN, *Use of Social Media for the Share the Road Awareness Program*, 2012-14

**Emily Macdonald**, MPLAN, *The Social Act of Aging: Identifying Opportunity Structures for Older Adults' Social Activity Purposes*, 2012-14

**Mateja Peterlin**, MPLAN, *Impact of Attitudes and Life-style Choice on Travel Behaviour*, 2011-13

**Nicholas Shaw**, MPLAN, *Modelling Residential Location and Mobility Tool Ownership of Seniors in Toronto*, 2011-13

**Kelsey Baglo**, MPLAN, *Best Practice Review of Road Safety Campaigns*, 2011-13

**Shaun Heffernan**, MPLAN, *Households' Long-term Mobility Decisions and Travel Behaviour*, 2011-13

**Scott Ash**, MPLAN, *Estimation of Mobile Source Emissions on the Halifax Peninsula Truck Route*, 2011-13

**Katrina Leckovic**, MPLAN, *Transit Network Planning for Mass Emergency Evacuation*, 2010-12

**Daniel Richardson**, MPLAN, *Evaluation of Transit Alternatives for the Bedford-Halifax Corridor: A Stated Preference Study*, 2010-12

**Bruce Mans**, MPLAN, *Modelling Job Mobility and Location Choices/Dalhousie Travel Behaviour Study*, 2010-11

**Jing Yan**, MPLAN, *Application of Graph Theory in Analyzing Transit Network*, 2010-11

**Susanne McDonald**, MPLAN, *Elderly Travel Behaviour of Greater Toronto Area*, 2010-11

Note: All PhD, MASC and MPS students received funding from research grants/contracts; Most MPLAN students received co-op Research Assistantships (RA) and/or part-time RA

## Visiting Research Students

**Alexander Morgenthaler**, Master of Urban Studies, Vrije Universiteit Brussel, Belgium, *Emission Modelling for Halifax*, 2019

**Alexandre Pinchemel**, MSc (Management), Federal University of Goias, Brazil, *Pedestrian Simulation for Large-scale Evacuation in Airport*, 2018-19

**Abroon Qazi**, PhD (Management Science), Strathclyde Business School, UK, *Impact Assessment of Critical Infrastructure Closure on Commuters and Supply Networks*, 2016

**Haomiao Cheng**, Planning (Tongji U.), *Spatial Evolution of Neighborhood in Shanghai, China: Assessment of Urban Form and Street Network*, 2015

**Hannah Fortune**, MSc (Planning), University of West Indies, *Evaluation of Transportation Plans for Mass Evacuation*, 2013-15

**Naznin Daisy**, MURP, BUET, Bangladesh, *Mode Choice Modelling of School-going Children in Dhaka*, 2011-13

## Committee Member/Examiner for Graduate Students

**Luana Almeida**, PhD (Industrial Engineering), Dalhousie University, (Supervisor: Dr. Pelot), Committee member, 2020 – present

**Lauryne Rodrigues**, MSc (Industrial Engineering), Dalhousie University, (Supervisor: Dr. Goerlandt), Committee member, 2019 – present

**Simranjeet Singh Chadha**, (Industrial Engineering), An Applied Optimization Model for Freight Delivery in a Physical Internet Supply Chain (Supervisor: Drs. Ülkü and Venkatadri)

**Riad Mustafa**, PhD (Civil Engineering), University of New Brunswick, *Developing a High-Fidelity GIS-Based Travel Demand Model Framework for Improved Network-wide Traffic Estimation* (Supervisor: Drs. Hildebrand & Christie), External examiner, 2018

**Mohammad Hassan**, PhD (Civil Engineering), University of New South Wales, Australia, *Transit Stop and Route Choice Modelling* (Supervisor: Dr. Rashidi), External examiner, 2018

**Philip Vickers**, MSc (Civil Engineering), Dalhousie University, *Movement Models for the Angus L. MacDonald Suspension Bridge* (Supervisor: Dr. Newhook), Committee member, 2014

**Mehran Fazili**, MSc (Industrial Engineering), Dalhousie University, *Physical Internet, Conventional, and Hybrid Logistic Systems: An Optimization Based Comparison* (Supervisor: Dr. Venkatadri), Committee member, 2014

**Sasan Esmaeili**, MSc (Industrial Engineering), Dalhousie University, *Development of Equipment Failure Pognostic Model based on Logical Analysis of Data (LAD)* (Supervisor: Dr. Ghasemi), Committee member, 2012

**Joshua Levi**, MSc (Civil Engineering), Dalhousie University, *Application of Structural Monitoring in Management Decisions for Lange Infrastructure* (Supervisor: Dr. Newhook), Committee member, 2011

### **Undergraduate Honours (thesis) Students** (Lifetime: 26; Last 5 years: 14)

**Tyler Boutilier**, Bachelor of Community Design (BCD), *Virtual Reality Applications for Evaluating Active Transportation Improvement Projects*, 2019-20

**Gabrielle Doucet**, BCD, *Smart Cities Challenge: A Systematic Review of How Canadian Municipalities Plan for Transformative Infrastructure of the Future*, 2019-20

**Emma MacEachern**, BCD, *Scenario Planning for New Mobility*, 2019-20

**Emilie Pothier**, BCD, *Mass Evacuation Planning: A Multiple Criteria Evaluation to Determine Shelter Locations in Halifax, Nova Scotia*, 2018-19

**Jonathan Goldson**, BCD, *Planning for all Ages and Abilities in the Cogswell Interchange Design*, 2018-19

**Sarah Fanjoy**, BCD, *Active Transportation Evaluation of Argyle Street, Halifax*, 2018-19

**Paul Cloutier**, BCD, *An Investigation of Automobile Parking Planning Issues in the Downtown Halifax Business Improvement District*, 2017-18

**Scott Borden**, BCD, *A Comprehensive Approach to Transportation Planning Evaluation*, 2015-16

**Kyle Whynott**, BCD, *Planning and Evaluating Options for Multi-modal Transportation on Queen Street in Halifax, Nova Scotia*, 2015-16

**Alex Leung**, BCD, *A Multi-modal Study of Spring Garden Road, Halifax*, 2015-16

**Connor Wallace**, BCD, *Transit-oriented Development Concept Plan: West End Halifax*, 2014-15

**Byung Jun Kang**, BCD, *Microsimulation Modelling of Transit Priority Measures in Halifax*, 2014-15

**Sara Campbell**, BCD, *Performance of the Downtown Halifax Pedway System*, 2014-15

**Matt Blakely**, BCD, *Retrofitting Halifax's Mumford Terminal*, 2014-15

**Robert Lee**, BCD, *Measuring Accessibility to Public Services in HRM*, 2013-14

**Siobhan Witherbee**, BCD, *Housing Price Analysis in HRM*, 2013-14

**Sidney Starkman**, BCD, *Characterizing County-level Travel Behaviour*, 2013-14

**Alex Irvine**, BCD, *ICT and Travel Choice – A Survey Design*, 2013-14

**Justin Forbes**, BCD, *Modelling Bicyclists' Injury Severity Levels*, 2012-13

**Greg Morrison**, BCD, *2013 Nova Scotia Collision Study*, 2012-13

**Justin Hall**, BCD, *Evaluation of Challenges of Collision Data Collection, Monitoring and Evaluation*, 2012-13

**Christopher Demaine**, BCD, *Halifax Carshare Study*, 2011-12

**Caroline King**, BCD, *Evaluation of On-street Parking-by-permit Only Program in Halifax Regional Municipality*, 2011-12

**Kourosh Rad**, BCD, *Bikeshare Feasibility Study for Halifax*, 2011-12

**Stephen Otulakowski**, BCD, *Spatial Distribution of Retail Development in Halifax*, 2011-12

**Derek Robinson**, BCD, *Locating Bike Parking: A Multi-criteria Analysis*, 2011-12

### **Undergraduate Capstone Team Project (Civil Engineering) Advisor**

- “Designing Halifax Downtown Parking Garage” – Suvir Pursnani, Josh Porter, Virgilio De Lara & Nicholas MacDonald (2013)
- “PLATA Trail design” – James Goodwin, Craig Davis, Mohammad Asari & Chris Nickles (2012)

### **Summer/Part-time Research Students**

- Vigneshwari, Sampathkumar, Master of Computer Science, 2020
- Devin Holmes, Bachelor of Landscape Architecture, 2019
- Tousif Ahmed, MAsc, Mechanical Engineering, 2016
- Dillon Coyle, 4th year Engineering co-op student, Natural Science and Engineering Research Council, Undergraduate Research Scholarship Award (URSA) and RA matching fund, 2014

### **Research Project Coordinators (Full-time)**

<b>Year(s)</b>	<b>Name</b>	<b>Program and Current Position (if applicable)</b>
2018-present	Katie Walker	BCD graduate
2018-2019	Stephen McCarthy	MPLAN graduate (PhD student, KTH)
2018	Rachel Lynn	BCD graduate (Private sector)
2017-18	Mitch Gold	BCD graduate (Private sector)
2017-2018	Leen Romaneh	BCD graduate (Transportation Planner with HRM)
2017	Sara Campbell	BCD graduate (Planner with Municipality of Windsor-West Hants)
2014	Claire Catherine	BCD graduate (Private sector)
2013	Cara Wittich	BCD graduate (Officer, Canada Post)
2012	Mateja Patterlin	MPLAN graduate (Private sector)
2012	Brittney MacLean	BCD graduate, Planner with HRM

## ACADEMIC SERVICES

### University-level

- Board Member** (Faculty Representative), Board of Governors, Dalhousie University, 2020-23
- Senator**, Dalhousie University Senate, January 2018-December 2021 (elected)
- Member**, Operational Management Committee, MacEachen Institute for Public Policy and Governance, 2020-2021
- Member**, Search Committee, Provost and Vice President (Academic), 2020-2021
- Member**, Senate Planning and Governance Committee (SPGC), 2018-2020
- Member**, University Tenure and Promotion Panel, 2017-2020
- Member**, Selection Committee, Research Fellowship for Pre-tenure Faculty Members from Equity-seeking Groups, Dalhousie University, March 2018-April 2020
- Member**, Search Committee, AVP (SA) & University Registrar, 2016-2017
- Senator**, Dalhousie University Senate, July 2013-June 2016 (elected)
- Senate Representative**, Transportation Demand Management and Security Committee, Dalhousie University, January 1, 2012-2018 (nominated)
- Member**, Senate Standing Committee (Teaching and Learning), Dalhousie University, Halifax, NS, 2011-2012

### Faculty-level

- Member**, Dean Search Committee, Faculty of Architecture and Planning, 2018-2019
- Member**, Tenure and Promotion Committee, Faculty of Architecture and Planning, 2014-2016
- Member**, Organizing Committee, Faculty of Architecture and Planning Strategic Plan, 2012-13
- Member**, Faculty Research Advisory ad-hoc Committee, Faculty of Architecture and Planning, 2011-2012
- Member**, Faculty Council, Faculty of Architecture and Planning, 2010-present

### School-level

- Director**, School of Planning, Faculty of Architecture and Planning, January 2019-present
- Graduate Coordinator**, Faculty of Graduate Studies, March 2018-January 2019
- Member**, Tenure and Promotion Committee, School of Planning, Sept. 2019-Dec. 2019
- Search Committee Member**, Tenure-track Assistant Professor position, School of Planning, December 2017-July 2018
- Graduate Coordinator**, Faculty of Graduate Studies, January 2014-January 2016
- Search Committee Member**, Tenure-track Assistant Professor (Diversity) position, School of Planning, December 2015-July 2016
- Search Committee Chair**, Tenure-track Assistant Professor position, School of Planning, April 2013-March 2014
- Search Committee Chair**, School of Planning Director search, January-November 2013
- Search Committee Chair**, Limited-term Instructor position, School of Planning, Jan-July 2013
- Search Committee Member**, School of Planning Director Search, 2012
- Member**, School of Planning Committee, Dalhousie University, Halifax, NS, 2010-Present

**Member**, Graduate Curriculum Committee, School of Planning, Dalhousie University, Halifax, NS, 2011-2018

**Member**, Undergraduate Curriculum Committee, School of Planning, Dalhousie University, Halifax, NS, 2010-2011

**Member**, Board of Undergraduate Studies (BUGS), Department of Urban and Regional Planning, Bangladesh University of Engineering and Technology (BUET), Dhaka, 2002-2004

## **SERVICES TO THE RESEARCH ORGANIZATIONS**

### **Contributions to Societies/Organizations (selected)**

**Organizing Committee Core Member**, World Conference Transportation Research (WCTR) 2022, Montreal, 2019-2022

**Vice President**, International Professional Association for Transport and Health, 2018-2020

**Session Chair**, 15th World Conference on Transport Research (WCTR), Mumbai, India, May 26-31, 2019

**Session Chair**, 10th International Conference on Ambient Systems, Networks, and Technologies (ANT), Leuven, Belgium, April 29-May 2, 2019

**Committee Member**, Standing Committee on Travel Behaviour and Values (ADB10), Transportation Research Board (TRB), USA National Academies of Sciences, Engineering, and Medicine, Washington DC, 2017/4-2020/3

**Committee Member**, Standing Committee on Transportation and Sustainability (ADD40), Transportation Research Board (TRB), 2017-2020

**Chair**, Research sub-committee on Transportation and Sustainability (ADD40), Transportation Research Board (TRB), 2017-2018

**Committee Member**, Standing Committee on Effects of Information and Communication Technologies (ICT) on Travel Choices (ADB20/AEP35), Transportation Research Board (TRB), 2013/4 -2022

**Vice Chair (elected)**, Integrated Climate Change Committee, Transportation Association of Canada (TAC), Ottawa, 2018/4-2019/9

**Session Chair**, Transportation Association of Canada Conference, multiple, 2016-present

**Session Moderator**, 2014 World Symposium for Transport and Land Use Research, Delft, the Netherlands, June 24-27, 2014

**Session Chair**, 13<sup>th</sup> World Conference on Transportation Research, Rio de Janeiro, Brazil, July 15-18, 2013

**Member**, Conference Organizing Committee, 13<sup>th</sup> International Conference on Travel Behavior Research, Toronto, ON, July 15-20, 2012, International Association of Travel Behavior Research (IATBR)

**Workshop Co-chair and Organizer**, Workshop Session 5: Idea Café – Game Changers in Travel Behavior, 13<sup>th</sup> International Conference on Travel Behavior Research, Toronto, ON, July 15-20, 2012, International Association of Travel Behavior Research (IATBR)

**Session Chair and Discussant**, Annual North American Meeting of the Regional Science Association International, 2005-2008

### **Peer Review Activities (selected)**

- External Reviewer, NSERC Discovery Grant 2013-2020
- External Reviewer, SSHRC Insights Grants 2016-2020

- External Reviewer, Ontario Research Fund, 2017-2018
- Reviewer of *Transportation Research Record: Journal of the Transportation Research Board*, and conference papers of the Annual Meetings of Transportation Research Board (TRB), National Research Council, Washington D.C. 2005-present (over 120 papers)
- Reviewer of the journals: *Transportation*, *Transportation Research Part A: Policy and Practice*, *Transportation Letters*, *Journal of Transport and Land Use*, *Transportation Research Part B: Methodological*, *Journal of Advanced Transportation*, *Canadian Journal of Civil Engineering*, *Transportation Research Part D: Transport and Environment*, *Computers, Environment and Urban Systems*, *Travel Behaviour and Society*, *Environment and Planning B: Urban Analytics and City Science* among others
- Reviewer of Transportation Association of Canada (TAC) conferences, 2016-2020
- Reviewer of CSCE 10<sup>th</sup> International Transportation Specialty Conference, Halifax, 2014
- Reviewer of paper abstract submitted in the the 13<sup>th</sup> International Conference on Travel Behavior Research, Toronto, ON, 2012 (*12 paper*)
- Book manuscript reviewer, UBC University Press, Canada, 2010

### **SERVICES TO THE COMMUNITY/OTHER (SELECTED)**

- Contributor, HalifACT 2015: Acting on Climate Together, Halifax Regional Municipality, 2019-2020
- Contributor, Integrated Mobility Plan, Halifax Regional Municipality, 2016-2017
- Member, Crosswalk Safety Advisory Committee, Halifax Regional Municipality Council, 2013-2015
- Contributor, 2014 Active Transportation Policy Framework (led by the Nova Scotia Department of Health and Wellness, Province of Nova Scotia), 2013-2014
- Contributor, 2013 Sustainable Transportation Strategy (led by the Department of Energy, Province of Nova Scotia in partnership with the NS Department of Energy, Department of Environment, Department of Health and Wellness, and Department of Transportation and Infrastructure Renewal), 2012-2013
- Contributor, Halifax Regional Municipality Crosswalk Safety Recommendation Report (with the HRM Crosswalk Safety Advisory Committee), 2013-2014
- Contributor, HRM Mobility Group for Regional Plan Review (in collaboration with the HRM Alliance, Planning and Design Centre, Clean NS, CarShareHFX, Ecology Action Centre), 2012-2013
- Member, Transportation Issues Committee, Ecology Action Center, NS, 2011-2016
- Contributor, Its More Than Buses Event, Planning and Design Centre and Fusion Halifax, 2011
- Member, Sustainable Transportation Task Force, Halifax, NS, 2010 - 2013

### **MEDIA INTERVIEWS**

- CTV News, “Stunting a growing problem”, September 3, 2020
- Global News, “The New Reality: How COVID-19 could impact the commercial real estate market”, July 6, 2020
- Expert Interview, “If We Built it Today”, TV Series, Discovery Channel, Fall 2020 (tbd)
- CBC News, “Prof says more roads, better transit needed in wake of storm that trapped motorists”, November 29, 2019

- Global News, “Halifax stadium proposal neglects transportation considerations”, September 30, 2019
- Dal News, “The green machines (and more) of Dal’s redesigned Sexton Campus”, March 14, 2019
- The Chronicle Herald, “Action needed to address fatal Lower Sackville pedestrian crossing: traffic experts”, December 7, 2018
- CBC News, “Why small change in traffic signals could make big difference for pedestrians in HRM”, October 12, 2018
- The Star, “Halifax university team looking at effective and efficient ways to evacuate the peninsula in an emergency”, October 5, 2018
- Halifax Examiner, “It’s been 15 years since Hurricane Juan; are we ready for an even bigger storm?”, September 26, 2018
- Halifax Today, “Local expert says red light cameras can improve safety”, March 29, 2018
- CTV News, “Halifax councillors considering installment of red light cameras”, March 27, 2018
- Metro News Halifax, “‘Where, when, why and how:’ Text to help shape direction of getting around Halifax”, October 24, 2017
- News 95.7, The Sheldon MacLeod Show, “Nova Scotia Travel Activity (NovaTRAC) survey.”, October 23, 2017
- News 95.7, “Dalhousie researchers look south to develop Halifax evacuation models”, September 13, 2017
- Global News, “Halifax researchers using Hurricane Harvey, Irma as they work to understand mass evacuations”, September 12, 2017
- Global News, “Group proposes light-rail transit system for Halifax”, July 20, 2017
- Global National, “Innovative Solution to Walking While Texting”, June 13, 2017
- CBC News Radio, “Distracted walking”, March 28, 2017
- CBC News, “Halifax could take 15 hours to evacuate in a disaster, Dal researchers find”, March 20, 2017
- CBC News Information Morning Nova Scotia, “Game to help officials prepare for mass evacuation”, March 20, 2017
- News 95.7, “Evacuation game highlights concerns with mass evacuation”, March 20, 2017
- Metro News Halifax, Chronicle Herald, CTV News, Brandon Sun, Winnipeg News, CKOM radio, Local Express, Times Colonist, Cape Breton Post, L’actualite, “Researchers developing disaster-planning tool that will work like a video game”, March 20, 2017
- Global News, “Transit improvement projects on the way for Halifax”, February 24, 2017
- CBC News, “Distracted walking ban debate strolls into Halifax”, January 16, 2017
- Global News, “Halifax close to marking 1 year with no pedestrian deaths”, December 30, 2016
- Halifax Examiner, “Halifax will finally get the data it needs to make smart decisions about transportation”, August 12, 2016
- Global News, “Halifax Transit Plan going to council next week”, April 5, 2016
- News 95.7 Interview on “Nova Scotia Travel Activity (NovaTRAC) Survey”, November 12, 2015

- CTV Evening News Interview on Traffic impact microsimulation modeling for Macdonald Bridge redecking, October 2015
- Global News, “HRM decision not to install 4-way stop leaves residents disappointed”, August 12, 2015
- The Coast, “The strange authority of the Halifax-Dartmouth Bridge Commission”, June 25, 2015
- Halifax Examiner Article on road sharing, March 6, 2015
- Metro News Article on pedestrian collisions, November 2014
- CTV News Interview on elderly pedestrian crossing, September 11, 2014
- CTV News Interview on Crosswalk safety, September 10, 2014
- The Globe and Mail, “Interchange demolition plan gives Halifax renewal rare second chance”, May 8, 2014
- Halifax Magazine, Big Ideas: DalTRAC research, March 2014
- CTV News one-on-one Live Interview with Steve Murphy, February 28, 2014
- Global News, Collision study, January 22, 2014
- National Post, “Rising pedestrian injuries and deaths at crosswalks prompt calls for change”, December 31, 2013
- Global News, crosswalk safety, December 13, 2013
- CTV News, Crosswalk Collision (Vehicle-pedestrian collision), December 6, 2013
- CBC News, Share the Road campaign, November 21, 2013
- Radio interviews on Zipper Merging on highways (July 2013), CBC radio stations, Halifax -- Mainstreet (Stephanie Domet - host); Windsor -- The Bridge (Bob Steele - host); St. John’s -- On the Go (Ted Blades - host); Edmonton -- Radio Active (Portia Clark - host); Calgary -- Homestretch (Doug Dirks- Host); Charlottetown –Main street PEI (Karen Mair - host); Toronto -- Here and Now; New Brunswick -- Shift; Vancouver -- On the Coast (Stephen Quinn - host); Subbury -- Points North (Jason Turnbull - host)
- Global TV 6 o’clock news (TV), Interview on transit in Halifax, May 2011
- CBC radio: Interview “Its More Than Buses” event, July 19, 2011
- Radio 95.7: Interview on “Its More Than Buses” event (July 19, 2011)
- Halifax Magazine (Newspaper), Interview- intersection design, 2010
- The Advance (Newspaper), Queens Municipality project featured, March 14, 2011

## **MEMBERSHIPS AND AFFILIATIONS**

Member, Institute of Transportation Engineers (ITE), Canada

Member, International Association of Travel Behaviour Research (IATBR)

Member, World Transportation Research Forum (WCTR)

Affiliate Member, Transportation Research Board (TRB)

Member, North American Regional Science Council (NARSC)

Member, Canadian Transportation Research Forum (CTRF)

Provisional Member, Canadian Planners Institute, 2010-2015

Member, Bangladesh Institute of Planners (BIP)