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Murtaza Haider, Ph.D.

Director

REGIONOMICS INC.

Associate Professor

Ted Rogers School of Management
Ryerson University, Toronto
(Updated in March 2018)

CAREER HIGHLIGHTS

Syndicated Columnist	Post Media (National Post/Financial Post)	2017 –
	Huffington Post	2012 –
Author	<i>Getting Started with Data Science</i> , IBM Press	2016
	<i>Business Analytics</i> , Taylor and Francis	11/2018
Associate Dean	Research and Graduate Programs, Ted Rogers School	2011–2014
Entrepreneur	Regionomics Inc., www.hmbulletin.com	1997 –
MOOCs Developer	Content developer for IBM's Big Data University/ Cognitive Class	2015 –
Data Science Evangelist	Over 10,000 trained in data science with IBM / Bootcamps 500,000 learners on YouTube	2001 –
Expertise	Data Science, Business Analytics, Real Estate Markets, Infrastructure/Transportation planning & engineering	1993 –
Expert Commentary	CBC, CTV, City TV, Global TV, TVO, Globe & Mail, TO Star	2002 –

Academic/Professional Career:

Interim Chair	Department of Real Estate Management, Ryerson University	2018-2019
Associate Professor	Ted Rogers School of Management, Ryerson University	2006 –
Visiting Associate Professor	Institute on Municipal Finance & Governance Munk School of Global Affairs, University of Toronto	2014–2015
Dean	Interim, Ted Rogers School of Management	July 2013
Adjunct Professor	Faculty of Engineering, McGill University	2007 –
	Faculty of Engineering, University of Toronto	2007–2010
Assistant Professor	Faculty of Engineering, McGill University	2002–2006
Data Analyst	BMO Nesbitt Burns, Toronto	1995 – 96
Demographic (GIS) Analyst	Faculty of Environmental Studies, York University	1994
Correspondent	United Press International (UPI), Islamabad, Pakistan	1993
Reporter	The Frontier Post, Islamabad, Pakistan	1992 – 93

EDUCATION

Ph.D. (Civil Engineering, Urban Systems Analysis)	2003
Thesis: Developing housing market forecasts. University of Toronto, Toronto, Ontario	
M.A.Sc. (Transport Engineering & Planning)	1999
Thesis: Hedonic price models of freehold housing. University of Toronto, Toronto, Ontario	
Certificate in Magazine Journalism	1995
Ryerson University, School of Journalism	
B.Sc. (Honours) Civil Engineering	1992
N-WF.P. Engineering University, Peshawar, Pakistan	

Administrative Appointments:

- ◆ Toronto Board of Trade: Member Infrastructure and Policy Committees (2015 - date)
- ◆ Tokmakjian Group: Member Board of Advisors, Toronto, Canada (2016 – present)
- ◆ Pakistan Telecom Authority, Technical Advisor, Islamabad, Pakistan (2015 – 2018)

Ryerson University:

- Director, Ryerson [Urban Analytics Institute](#) (2017 – date)
- Member, Advisory Group to review Senate Bylaws (2018 - date)
- TRSM Research Mentor (2017-18)
- Advisor, Undergrad Co-op Program in Real Estate Management (2015 - date)
- Member, TRSM Numeracy Working Group (2016 – date)
- Member, Faculty Space Committee (2017)
- Departmental Representative to Ryerson Faculty Association (2016 – date)
- Member, Various faculty promotion, and tenure review committees (2009 - date)
- Faculty Advisor, Ryerson Zone Learning Analytics School (2015-16)
- Member, Provost's advisory committee on University's Academic Plan (2013-14)
- Member, Ryerson Research Committee (2011 – 2014)
- Member, Search committee for vice provost equity, diversity & inclusion (2011)
- Director, Institute of Housing and Mobility (2007 – 2013)
- Member, Ryerson Senate (2008-2010)
- Member, Senate's Academic Governance and Policy Committee (2008-2010)
- Member, Provost's Academic Structures Commission (2009-10)
- Member, TRSRM Curriculum Review Committee (2008-09)
- Member, New Faculty Award Committee (2008-09)
- Member, Chang School Sustainability Cert. Curriculum Committee (2008-10)
- Member, Research Awards Committee (2008-09)
- Member, Director's Search Committee (2009)

McGill University:

- Director, Gardner Hall Residence (2003-2006)
- Manager, Urban Systems Laboratory, Faculty of Engineering (2003-2006)

PROGRAM REVIEWS:

Member of the following committees to conduct Cyclical Review of Academic Programs:

- ◆ Mechanical and Industrial Engineering, Ryerson University, 2018
- ◆ Department of Marketing and Consumer Studies, University of Guelph, 2018
- ◆ The Telfer School of Management, University of Ottawa, 2013

PROFESSIONAL TRAINING RECEIVED:

- ◆ ArGUS Software for Commercial Real Estate Development and valuation. Austin, Texas. June 2016.
- ◆ Time Series Econometrics by Stata Corporation. Washington, DC. June, 2014.
- ◆ Modelling consumer behavior and promotional campaigns by Pitney Bowes. Ryerson University, April 2014.
- ◆ System Dynamics Workshop by Professor Jeroen Struben. (McGill U.), Ryerson University, November 2013.
- ◆ Structural Equation Models by Professor John Fox. McMaster University, November, 2013.
- ◆ Modeling Treatment Effects in Experiments by Stata Corporation. Washington, DC. October, 2013.
- ◆ Discrete Choice Models by Professors Daniel McFadden & Moshe Ben Akiva. EPFL, Lausanne, 2006.
- ◆ Spatial Regression Analysis by Professor Luc Anselin, University of Michigan, Ann Arbor, 2001.

PROFESSIONAL PRACTICE:

- ◆ Academic Advisor to Cognitive Class (IBM) for MOOCS on data science (2015 – present)
- ◆ Consultant to Toronto's Financial District BIA on accessing the impact on accessibility on proposed changes to the transit infrastructure (2017-18)
- ◆ Consultant to Government of Punjab (Pakistan) to draft Punjab Road Sector Policy (2017-18).
- ◆ Consultant to the City of Toronto on tax rebates for real estate sales (2016-2017).
- ◆ Consultant to Residential and Civil Construction Alliance of Ontario to determine the impact of infrastructure investments on job creation in Ontario (2012-13).
- ◆ Consultant to the City of Toronto on employment growth and location forecasting for the GTA (2010-11).
- ◆ Consultant to the Region of Peel on forecasting the demand for homeless services (2010).
- ◆ Consultant to the Region of Peel on the impact of built form on social service delivery costs (2009).
- ◆ Advisor to the Canadian Carriers and Logistics Association on improving express courier delivery in urban areas (2009).
- ◆ Consultant to Smart Growth BC on the impact of urban form on obesity (2008).
- ◆ Consultant to the City of Calgary to develop econometric forecasts for housing prices under different population employment growth scenarios (2008).
- ◆ Consultant to the *Globe and Mail* on determining accessibility to financial institutions in Canada (2007-08).
- ◆ Consultant to the Toronto District School Board on determining the impact of changing land use of vacant school properties on the neighbouring housing units (2007).
- ◆ Advisor to the Urban Unit, Government of Punjab, Pakistan, to train traffic managers in advanced urban transport planning and traffic management (2007).
- ◆ Consultant to Infrastructure Canada to develop a freight planning manual for Canada (2007).
- ◆ Consultant to Infrastructure Canada to identify innovative finance strategies to promote smart growth (2007-8).
- ◆ Consultant to CMHC to develop a system dynamics model to identify policy alternatives that promote smart growth (2007).
- ◆ Consultant to Transport Canada for the analysis of international trade and seaport capacities (2007-08).
- ◆ Consultant to CMHC to model travel behaviour and activity patterns in 8 new urbanist and traditional neighbourhoods in Canada (2006-07).
- ◆ Consultant to Transport Canada for the analysis of shippers' and carriers' mode choices (2005-06).
- ◆ Consultant to United Nations Population Fund to train Population Census Organization in Pakistan in developing a nationwide Geographic Information System for census planning and policymaking (2005-06)
- ◆ Evaluating Computable General Equilibrium modeling framework for housing policy analysis in Canada (Client: Canada Mortgage and Housing Corporation, 2004-05)
- ◆ The impact of new urbanist neighbourhoods on travel behaviour (Client: Canada Mortgage and Housing Corporation, 2005-06)
- ◆ Advisor to the Higher Education Commission (Government of Pakistan) to establish a \$3.0 million Institute of Urban Planning in Peshawar, Pakistan (2004).
- ◆ Advised the City of Montreal on the safety implications of Right Turn on Red at signalized intersections in Montreal (2003).
- ◆ Co-authored a report for Infrastructure Canada (Government of Canada) on the state of municipal infrastructure and its restoration (2003)

CURRENT RESEARCH IN PROGRESS

- ◆ Financing infrastructure in small towns and rural communities
- ◆ Impact of First Time Home Buyers' Rebate on Housing Prices
- ◆ Role of news media in generating hype for big data
- ◆ Determinants of education-occupation mismatch between Canadian immigrants and by birth citizens in Canada.
- ◆ Housing needs of aging North American populations.
- ◆ Uncertainty in estimated parameters in traffic safety models of single-vehicle collisions.

PUBLICATIONS & PRESENTATIONS

Books

- ◆ *Getting Started with Data Science: Making Sense of Data with Analytics*. (ISBN 9780133991024). 2016. IBM Press and Pearson North America.
- ◆ *Business Analytics: With Examples in R Commander and R*. (ISBN-13: 978-1138627604) Chapman and Hall/CRC; 1 edition (November 1, 2018).

Articles in refereed publications/book chapters

- ◆ Dabbour, Essam; and Murtaza Haider (2018). Using random-parameter and fixed-parameter ordered models to explore temporal stability in factors affecting drivers' injury severity in single-vehicle collisions. *Journal of Traffic and Transportation Engineering* (Forthcoming)
- ◆ Dabbour, Essam; Said Easa; and Murtaza Haider (2017). Using fixed-parameter and random-parameter ordered regression models to identify significant factors that affect the severity of drivers' injuries in vehicle-train collisions. *Accident Analysis & Prevention*. No. 107: 20 – 30.
- ◆ Haider, Murtaza; Amar Anwar; Cynthia Holmes. (2016). Did the Land Transfer Tax reduce housing sales in Toronto? Institute on Municipal Finance and Governance. Munk School of Global Affairs. University of Toronto. *IMFG Papers on Municipal Finance and Governance*. No. 28. Pp. 1-21. ISBN 978-0-7727-0962-2. ISSN 1927-1921.
- ◆ Haider, Murtaza; Liam Donaldson. (2016). Can Tax Increment Financing Support Transportation Infrastructure Investment? Institute on Municipal Finance and Governance. Munk School of Global Affairs. University of Toronto. *IMFG Papers on Municipal Finance and Governance*. No. 25. Pp. 1-34. ISBN 978-0-7727-0955-4. ISSN 1927-1921.
- ◆ Gandomi, Amir; Haider, Murtaza. (2015). Beyond the Hype: Big Data Concepts, Methods, and Analytics. *International Journal of Information Management*. Vol. 35. pp. 137-144. **(13th most viewed paper in Social Sciences, Oct. – Dec. 2015 by Science Direct)**
- ◆ Duguay, Benoit; Haider, Murtaza; Boulard, D.; Khomsi M. K., Moca I. (2015). Social media influences on travel planning and booking. *Proceedings of the International Marketing Trends Conference 2015*. ISBN: 978-2-9532811-2-5.
- ◆ Haider, Murtaza (2014). Pakistan's Urbanization Challenges: Transport and Mobility in *Pakistan's Runaway Urbanization: What Can Be Done?* Editor: Michael Kugelman. Woodrow Wilson International Centre for Scholars, Asia Program. July 2014. pp. 78-106.
- ◆ Badami, Madhav G.; Haider, Murtaza (2013). Urbanization, environment, and well-being in South Asia. *South Asia 2060*. Frederick S. Pardee Centre for the Study of Longer Range Future, Boston University. Anthem Press. Pp. 160-168.
- ◆ Farooq, Bilal; Miller, Eric; Haider, Murtaza (2013). A Multidimensional Decisions Modelling Framework for Built Space Supply. *Journal of Transport and Land Use*. Vol. 6, No. 3. pp. 61-74.
- ◆ Tomalty, Ray; Haider, Murtaza; Fisher, Susan (2011). Comparing Canadian New Urbanist and Conventional Suburban Neighbourhoods. *Plan Canada*. Spring 2011. Pp. 21-25.
- ◆ Haider, Murtaza; Badami, Madhav (2010). Urbanization and Local Government Challenges in Pakistan. *Environment and Urbanization (Asia Edition)* pp. 81-96. Sage Publications.

- ◆ Patterson, Zachary; Ewing, Gordon; Haider, Murtaza (2010). How Different is Carrier Choice for Third Party Logistics Companies? *Transportation Research Part E*. Vol. 46. 764-774.
- ◆ Farooq, Bilal; Miller, Eric; Haider, Murtaza (2010). Hedonic Analysis of Office Space Rent. *Transportation Research Record*. 2174. Pp. 118-127.
- ◆ Mohammadian, A., M. Haider, and P. Kanaroglou (2008). Homebuilders Choice Behaviour Analysis. *The Canadian Journal of Regional Science*. 31(2). pp. 225.
- ◆ Patterson, Zachary; Ewing, Gordon; Haider, Murtaza (2008). The Potential for Premium-intermodal Services to Reduce Freight Carbon Dioxide Emissions in the Quebec City - Windsor Corridor. *Transportation Research Part D: Transport and Environment*. (13), pp. 1-9.
- ◆ Patterson, Zachary; Ewing, Gordon; Haider, Murtaza (2007). Shipper Preferences Suggest Strong Mistrust of Rail: The First SP Carrier Choice Survey for the Quebec City – Windsor. *Transportation Research Record*. 2008, pp. 67-74.
- ◆ Badami, Madhav G.; Haider, Murtaza (2007). An Analysis of Public Bus Transit Performance in Indian Cities. *Transportation Research Part A: Policy and Practice*. (41), pp. 961-981.
- ◆ Haider, Murtaza and Badami, Madhav (2007). Balancing Efficiency and Equity in Public Transit in Pakistan in *Urban Infrastructure and Public Service Delivery for the Urban Poor*. Pp. 122-143 (Chapter 6). Johns Hopkins University and Woodrow Wilson International Center for Scholars.
- ◆ Haider, Murtaza and Haider, Irteza (2006). Urban development in Pakistan in *Urbanization and sustainability in Asia: Case Studies on Best Practice Approaches to Sustainable Urban and Regional Development*. Pp. 245-272 (Chapter 10). Asian Development Bank, Manila, Philippines.
- ◆ Patterson, Zachary; Ewing, Gordon; Haider, Murtaza (2005). A Gender-based Analysis of Work Trip Mode Choice of Suburban Montreal Commuters Using Stated Preference Data. *Transportation Research Record*, 1924, pp. 89-94.
- ◆ Haider, Murtaza and Miller, Eric J. (2004). Modeling Location Choices of Housing Builders in the Greater Toronto Area. *Transportation Research Record*, 1898, pp. 148-156.
- ◆ Miller, Eric J., Roorda, Matthew J., Haider, Murtaza, Mohammadian, Abolfazl (2004). An Empirical Analysis of Travel and Housing Costs in the Greater Toronto Area. *Transportation Research Record*, 1898, pp. 191-201.
- ◆ Haider, Murtaza and Miller, Eric J. (2000). Effects of Transportation Infrastructure and Locational Elements on Residential Real Estate Values. Application of Spatial Autoregressive Techniques. *Transportation Research Record*, 1722, pp. 1-8.

Non-refereed Publications

- ◆ Haider, M. and Liam Donaldson (2017). *Infrastructure development for rural and small sized communities– Opportunities and Limitations*. Working Paper.
- ◆ Haider, M. and Liam Donaldson (2017). *Measuring Accessibility to Rail Transit Stations in Scarborough: Subway vs. LRT*. The report was covered by *The Toronto Star* on its front page on March 27, 2017.
- ◆ Haider, M. (2015). *To Uber or Not to Uber: Implications of deregulating taxi industry in Canada*. A report commissioned by the taxi industry to assist the municipal authorities on the debate about taxi deregulation.
- ◆ Haider, M. (2014). *Urban transport planning in Pakistan: Moving people and the economy*. Policy Brief published by the Woodrow Wilson International Center for Scholars. Washington, DC.
- ◆ Haider, M.; Crowley, David; DiFrancesco, Richard (2013). *Investing in Ontario's Infrastructure for Economic Growth and Prosperity*. An Independent Study Commissioned by the Residential and Civil Construction Alliance of Ontario.
- ◆ Haider, M.; Tomalty, Ray (2013). *The 2012 Smart Growth Report: Progress Towards Smart Growth in Canada*. A report commissioned by Canada Mortgage and Housing Corporation.
- ◆ Haider, M. (2009) *Challenges Facing the EDS Industry in Canada's Urban Centres*. Institute of Housing & Mobility, Ryerson University.

- ◆ Haider, M. (2009) Market Rebels: Book review. *Marketing Research*. Chicago: Winter 2009. Vol. 20, No. 4. Pp. 32.
- ◆ Tomalty, Ray; Haider, Murtaza (2009). 2009 BC Sprawl Report: Walkability and Health. Smart Growth BC. Pp. 1-60.
- ◆ Haider, M. (2007) Applied Choice Analysis: Book review. *Marketing Research*. Chicago: Winter 2007. Vol. 19, No. 4. Pp. 47-48.
- ◆ Haider, M. (2007) Supply Chains: The Value of a United Voice. *Canadian Retailer*. Chicago: Winter 2007. Vol. 17, No. 6. Pp. 24.
- ◆ Haider, M.; Tomalty, Ray (2007). Do households living in new urbanist neighbourhoods differ in travel behaviour from those living in conventional suburbs? A report commissioned by Canada Mortgage and Housing Corporation.
- ◆ Haider, M; Chakrapani, Chuck. (2007). How geography affects consumer behaviour—the automobile example-part 2. *Vue Magazine*. November 2007. Pp. 16-17.
- ◆ Haider, M; Chakrapani, Chuck. (2007). How geography affects consumer behaviour—the automobile example-part 1. *Vue Magazine*. October 2007. Pp. 18-22.
- ◆ Haider, M. (2007) A Statistical Odyssey. *Marketing Research*. Chicago: Fall 2007. Vol. 19, Iss. 3. Pp. 48-50.
- ◆ Patterson, Zachary; Ewing, Gordon & Murtaza Haider. 2007. Carrier Choice Quantified. *Canadian Transportation & Logistics*, May 2007, pp. 30-31.
- ◆ Haider, M., Ewing, G. & Patterson, Z. (2006). Freight Data Collection Methods: A Review. Report prepared for Transport Canada. [co-author]
- ◆ Ewing, G. & Haider, M., Patterson, Z. (2006). Decreasing GHG Emissions Through The Use Of Premium TOFC Services in the Quebec City – Windsor Corridor: A Shipper’s Perspective Using Stated Preference Techniques. Report prepared for Transport Canada. [co-author]
- ◆ Haider, M. (2006). Urbanization Challenges in Pakistan. *Developing Vision 2030*. A paper commissioned by the Planning Commission, Government of Pakistan.
- ◆ Haider, M. (2006). Evaluation of Computable General Equilibrium models for housing policy analysis in Canada. A report commissioned by Canada Mortgage and Housing Corporation.
- ◆ Mirza, S. and Haider, Murtaza (March 2003). The State of Infrastructure in Canada: Implications for Infrastructure Planning and Policy. A report prepared for Infrastructure Canada. McGill University. Montreal, QC.
- ◆ Miller, E.J., Roorda M.J., Haider M., Mohammadian A., Hogg J., Wong W. (2002). Transportation and Housing Costs in the Greater Toronto Area: An Empirical Analysis. Final project report to the Neptis Foundation, Toronto: Joint Program in Transportation, University of Toronto.
- ◆ Doherty, Sean T., Haider, Murtaza and Lee-Gosselin, Martin (March 2001). Enhanced Mobility-Related Energy Efficiency Indicators: Providing a Technical Basis for Improved Consumer Messaging. GRIMES, Université Laval. Quebec City, QC.
- ◆ Doherty, Sean T., Haider, Murtaza and Lee-Gosselin, Martin (Dec. 2000). Exploring the Spatial-Temporal Distribution of Household Activities and the Implications for Energy Efficiency. GRIMES, Université Laval. Quebec City, QC.
- ◆ Haites, Erik, & Haider, Murtaza. (July 1998). Experience with Mobile Source Emissions Trading and its Potential Application to Greenhouse Gas Emissions by the Transportation Sector. Transportation Committee, National Round Table on the Environment and the Economy. Ottawa, ON.

Conference Proceedings/Presentations/ Guest lectures

- ◆ Haider, Murtaza and Amar Anwar. (2017). Does the education-employment mismatch for Canadian-educated workers differ between Canadian-born citizens and immigrants? Annual conference of Canadian Economics Association. June 2 to 4, 2017. Antigonish, NS.

- ◆ Haider, Murtaza. (2016). The Tiff about TIFs: The Opportunities, Mechanics, and Challenges of Tax Increment Financing in Canadian Cities. Institute on Municipal Finance and Governance. Munk School of Global Affairs. University of Toronto. August 24, 2016.
- ◆ Haider, Murtaza. (2015). Diminishing Returns to Density: Built Form and Soft Infrastructure Costs. Institute on Municipal Finance and Governance. Munk School of Global Affairs. University of Toronto. March 31, 2015.
- ◆ Haider, Murtaza; Duguay, Benoit; Daniele Boulard; Mohamed Reda Khomsi; Moca, Ioana. (2015). Social media influences on travel planning and booking. 14th International Marketing Trends Conference. Paris (France). January 23-24 2015.
- ◆ Haider, Murtaza (2014). Did the land transfer tax affect housing sales in the Greater Toronto Area? Institute on Municipal Finance and Governance. Munk School of Global Studies. University of Toronto. November 27, 2014.
- ◆ Holmes, Cynthia; Haider, Murtaza (2014). Are neighbourhood level house price movements affected by school quality and immigrant concentration? A case study of Toronto. Proceedings of the Annual Conference of the Administrative Sciences Association of Canada. Finance Division. Muskoka, Ontario May 10-13, 2014.
- ◆ Gandomi, Amir; Haider, Murtaza (November 2014). A survey on the big data analytics and its applications. INFORMS Annual Meeting, San Francisco, CA. Session: Theory and Applications of Analytics and Big Data.
- ◆ Haider, Murtaza (August 2014). *Investing in Ontario's Infrastructure for Economic Growth and Prosperity*. Annual conference of Canadian Association of Business Economists. Kingston, Ontario.
- ◆ Haider, Murtaza (2014). Defining, evaluating and measuring research success in Canadian business schools. Associate Deans of Research Conference. Canadian Federation of Business School Deans. Concordia University, Montreal. March 23 - 25, 2014.
- ◆ Haider, Murtaza (2014). Urbanization Challenges in Pakistan: How to Avoid institutional and supply side failures. Planning Commission, Government of Pakistan. January 17, 2014. Islamabad, Pakistan.
- ◆ Haider, Murtaza (2014). Urban Transport Policy Imperatives for Pakistan. Seminar on Sustainable Urban Transport in Pakistan. Organized by The Urban Unit, Government of Punjab. January 15, 2014. Lahore, Pakistan.
- ◆ Haider, Murtaza (2014). Sustainable Bus Rapid Transit for the Future. Contemporary South Asian City Conference. Organized by the South Asia Institute at Harvard University. Karachi, Pakistan. January 9 - 12, 2014.
- ◆ Haider, Murtaza (2014). Building urban infrastructure for prosperity and job creation. Contemporary South Asian City Conference. Organized by the South Asia Institute at Harvard University. Karachi, Pakistan. January 9 - 12, 2014.
- ◆ Haider, Murtaza (2014). Transport-land use linkages comparisons between Western and Asian countries. Contemporary South Asian City Conference. Organized by the South Asia Institute at Harvard University. Karachi, Pakistan. January 9 - 12, 2014.
- ◆ Haider, Murtaza (2013). Use of Spatial analysis and big data in socio-economics. Pitney Bowes Data Day. Pitney Bowes. Stamford CT. November 12, 2013.
- ◆ Haider, Murtaza (2013). Mobility for All: Urbanization challenges in Pakistan. Pakistan's Galloping Urbanization. Woodrow Wilson International Center for Scholars. Washington, DC. November 06, 2013.
- ◆ Haider, Murtaza (2013). Building a research culture at business schools in Canada. Associate Deans of Research Conference. Canadian Federation of Business School Deans. Ryerson University, Toronto. March 06-08, 2013.
- ◆ Farooq, Bilal; Miller, Eric; Haider, Murtaza (2011). Multidimensional Decision Modeling Framework for Built Space Supply. Transportation Research Board's (TRB) 90th Annual Meeting. January 23-27, 2011. Washington DC.

- ◆ Farooq, Bilal; Miller, Eric; Haider, Murtaza (2010). A Multidimensional Decision Modeling Framework for Built Space Supply. North American Regional Science Conference. Denver, CO. November 2010.
- ◆ Farooq, Bilal; Miller, Eric; Haider, Murtaza (2010). Modelling the evolution of office space supply. Accepted at the World Conference on Transportation Research. Lisbon.
- ◆ Farooq, Bilal; Miller, Eric; Haider, Murtaza (2010). Hedonic Analysis of Office Space Rent. Transportation Research Board's (TRB) 89th Annual Meeting. January 10-14, 2010. Washington DC.
- ◆ Haider, Murtaza (December 2009). Modelling household solid waste generation rates in Pakistan. Invited lecture delivered at Kinnaird College, Lahore, Pakistan. December 19, 2009.
- ◆ Haider, Murtaza (December 2009). Urbanization Challenges in Pakistan. Invited lecture delivered at the National University of Sciences and Technology, Islamabad, Pakistan. December 24, 2009.
- ◆ Haider, Murtaza. (December 2007). Urban Transport Governance and Financing in Developing Countries. CIDA/Shastri Indo-Canadian Institute Workshop on Transport, Health, Environment, and Equity in Indian Cities. December 17-19, 2007. New Delhi, India.
- ◆ Patterson, Zachary; Ewing, Gordon and Murtaza Haider. (2007). Mode and Carrier Choice in the Quebec City - Windsor Corridor: A Random Parameters Approach. Proceedings of the 6th Triennial Symposium on Transportation Analysis (TRISTAN VI). June 2007, Phuket Island, Thailand.
- ◆ Haider, Murtaza; Patterson, Zachary; Ewing Gordon (2007). A comparative study of the cultural and institutional influences on risk management of shippers in Quebec and Ontario. Proceedings of the 2007 Meeting of the Canadian Transportation Research Forum. June 2007.
- ◆ Patterson, Zachary; Ewing, Gordon and Murtaza Haider. (2007). Is Carrier Choice Different for 3PLs and other End-shippers? Some Preliminary Findings. Proceedings of the 2007 Meeting of the Canadian Transportation Research Forum. June 2007.
- ◆ Patterson, Zachary; Ewing, Gordon; Haider, Murtaza (2007). Shipper Preferences Suggest Strong Mistrust of Rail: The First SP Carrier Choice Survey for the Quebec City – Windsor. Transportation Research Board's (TRB) 86th Annual Meeting. Washington DC.
- ◆ Patterson, Zachary; Ewing, Gordon and Murtaza Haider. (2006). The potential for premium inter-modal services to reduce CO2 emissions in the Quebec-City Windsor corridor: A Stated Preference application. 53rd North American Meeting of the Regional Science Association International. November 2006. Toronto, ON.
- ◆ Haider, Murtaza (2006). Accountability and Transparency in Transport Infrastructure Investments: From the Metro in Delhi to Maglev in Karachi. Presented at the Conference on Urban Infrastructure, Transport & Environment in India. The Centre for India and South Asia Research University of British Columbia. June 14-15, 2006.
- ◆ Patterson, Zachary; Ewing, Gordon and Murtaza Haider. (2006). The First Carrier Choice Survey for the Quebec City – Windsor Corridor: Shipper Preferences Suggest Uphill Battle for Increasing Rail Freight Market Share. Proceedings of the 2006 Meeting of the Canadian Transportation Research Forum. May 2006.
- ◆ Patterson, Zachary; Ewing, Gordon and Murtaza Haider. (2006). Shipper/Carrier Choice Survey for the Quebec City – Windsor Corridor: Challenges for Improving Rail Freight Market Share. Presented at the 2006 Swiss Transportation Research Conference, Monte Verità, Ascona – March 15 - 17, 2006.
- ◆ Patterson, Zachary; Haider, Murtaza and Gordon Ewing. Developing a Conceptual Framework for the Integration of Urban with International Freight Transportation Models. Presented at the National Urban Freight Conference, 1-3 February, 2006, Long Beach, CA.
- ◆ Simmonds, David C.; Haider, Murtaza; Feldman, Olga; Tsang, Flavia (2005). Model Developments based upon the DELTA Package. 52nd Annual Conference of the Regional Science Association International. November 10-12, 2005, Las Vegas, NV.

- ◆ Haider, Murtaza; Spurr, Tim; Rahel, Merissa. (June 2005). Access to Work and Affordable Housing for the Working Poor in Canada. MCRI-SSHRC Colloquium at the University of Toronto.
- ◆ Haider, Murtaza and Spurr, Timothy (June 2005). Measuring the performance of accessibility indicators in Greater Montreal Area. Canadian Regional Science Association Annual Meeting. June 3-4, 2005. Toronto, ON.
- ◆ Haider, Murtaza; Haider, Irteza (April 2005) Spatially disaggregate analysis of housing quality, urban services, and socio-demographics in South Asia: A case study of Rawalpindi, Pakistan. The World Bank's Urban Research Symposium: Land Development, Urban Policy and Poverty Reduction. Brasilia, Brazil.
- ◆ Mohammadian, Abolfazl; Haider, Murtaza (Jan. 2005). Incorporating Spatial Dependencies in Random Parameter Discrete Choice Models. Transportation Research Board's (TRB) 84th Annual Meeting. January 9-13, 2005. Washington DC.
- ◆ Patterson, Zachary; Haider, Murtaza; Ewing, Gordon (Jan. 2005). Did September 11 Affect Freight Mode Split in the Quebec New-York Corridor? Transportation Research Board's (TRB) 84th Annual Meeting. January 9-13, 2005. Washington DC.
- ◆ Patterson, Zachary; Haider, Murtaza; Ewing, Gordon (Jan. 2005). A Gender-based Analysis of Work Trip Mode Choice of Suburban Montreal Commuters Using Stated Preference Data. Transportation Research Board's (TRB) 84th Annual Meeting. January 9-13, 2005. Washington DC.
- ◆ Haider, Murtaza; Badami, Madhav. (June 2004). How to balance equity and efficiency concerns in public transit for the urban poor in Pakistan? Woodrow Wilson International Center Forum on Urban Infrastructure and Public Service Delivery for the Urban Poor. June 25-26, 2004. New Delhi, India.
- ◆ Haider, Murtaza. (May 2004). A study of regional trends in housing starts in the Greater Toronto Area. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Haider, Murtaza. (May 2004). Impact of Free Parking, Transit Accessibility, and Socio-Demographic Attributes on Mode Choice in Toronto. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Haider, Murtaza; Badami, Madhav. (May 2004). Transparency and public participation in infrastructure investment decision-making in Canada. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Haider, Murtaza; Spurr, Tim. (May 2004). Accessibility, equity, and transit use in the United States. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Haider, Murtaza; Wing Sze Siu; Rahel, Merissa. (May 2004). A study of travel behaviour of transportation disadvantaged in Montreal. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Patterson, Zachary; Haider, Murtaza; Ewing, Gordon. (May 2004). Did September 11 affect freight travel times and mode split between Canada and the United States? A case study of freight movements between Quebec and New York. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Spurr, Tim; Rahel, Merissa; Haider, Murtaza. (May 2004). Investigating the relationship between proximity to subway stations and transit use in Montreal and Toronto. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Carter, Andrew; Ewing, Gordon; and Haider, Murtaza. (May 2004). Can policies based on the principles of new urbanism help reduce car dependency in cities? An example from Montreal. Canadian Regional Science Association Annual Meeting. May 28-29, 2004. Moncton, NB.
- ◆ Haider, Murtaza; Miller, Eric J. (January 2004). Modeling Location Choices of Housing Builders in the Greater Toronto Area. Transportation Research Board's (TRB) 83rd Annual Meeting. January 11-15, 2004. Washington DC.

- ◆ Miller, Eric J.; Roorda, Matthew J.; Haider, Murtaza; Mohammadian, Abolfazl (2004). An Empirical Analysis of Travel and Housing Costs in the Greater Toronto Area. Transportation Research Board's (TRB) 83rd Annual Meeting. January 11-15, 2004. Washington DC.
- ◆ Haider, Murtaza; Haider, Irteza.; Salazar, Sebastian (Dec. 2003) Resistance to public transit regulation in developing countries: Equity, efficiency and safety in Islamabad and Lima. The World Bank's Urban Research Symposium: Urban Development for Economic Growth and Poverty Reduction. Washington, D.C.
- ◆ Haider, Murtaza ; Morin, Jean-Francois ; Moerman, Tim. (2003). A study of the impact of socio-demographic factors and land use on transit ridership in Montreal. Canadian Regional Science 2003 Meetings. May 30-31, 2003. Victoria, BC.
- ◆ Haider, Murtaza (March 2003). Spatial distribution of accessibility and housing dynamics in the GTA. SSHRC's MCRI Mid-Term Review Colloquium. GRIMES, Université Laval. Quebec City, QC.
- ◆ Haider, Murtaza (June 2001). A Spatial Analysis of Residential Land Inventory in the Greater Toronto Area. Third Annual Conference of the GEOIDE Network. June 21-22, 2001. Fredericton, NB.
- ◆ Haider, Murtaza; Haroun, Antoine; Miller, Eric J. (June 2001). The Impact of Power Lines on Freehold Residential Property Values in the Greater Toronto Area. Canadian Regional Science 2001 Meetings. June 1-3, 2001. Montréal, QC.
- ◆ Haider, Murtaza; DiFrancesco, Richard (June 2000). A Descriptive Analysis of Spatio-Temporal Variation in Retail Real Estate Prices in the Greater Toronto Area. Canadian Regional Science 2000 Meetings. June 2-4, 2000. Toronto, ON.
- ◆ Haider, Murtaza (June 2000). Improving Public Transit Access to Large Airports: A Case Study of Pearson Airport in Toronto. Proceedings of the 35th Annual Canadian Transportation Research Forum (CTRF) Conference. June 4 - 7, 2000. Charlottetown, PEI.
- ◆ Haider, Murtaza; Miller, Eric J. (January 2000). Spatio-Temporal Analysis of Housing Values in the GTA: Application of Spatial Autoregressive Techniques. Transportation Research Board's (TRB) 79th Annual Meeting. January 8-13, 2000. Washington DC.
- ◆ Haider, Murtaza; Miller, Eric J. (November 1999). Development of Hedonic Price Indices for Freehold Properties in the Greater Toronto Area: Application of Spatial Autoregressive Techniques. 46th North American Meeting of the Regional Science Association International. November 11-14, 1999. Montréal, QC.

RESEARCH GRANTS

- | | |
|--|-----------|
| ◆ Industry Grant - Urban Analytics (\$50,000) | 2018 |
| ◆ Caliper Corporation, Cambridge, MA (data and software, \$500,000) | 2017-2018 |
| ◆ TRSM Research Mentor (\$7,500) | 2017-18 |
| ◆ Ryerson Teaching Innovation Fund
(C\$25,000 : Can MOOCs assist with improving pedagogy in undergraduate curriculum in quantitative methods?) | 2017-18 |
| ◆ Ryerson (TRSM) Internal research grant
(C\$7,000 : Difference in social capital and trust in institutions between Canadian immigrants and the rest) | 2015 |
| ◆ Centre for Urban Research and Land Development
(C\$7,500 : Tax increment financing for infrastructure development) | 2015 |
| ◆ Centre for Urban Research and Land Development
(C\$7,500 : Housing needs of seniors in Canada) | 2014 |
| ◆ Centre for Labour Management Relations
(C\$7,500 : Mismatch in skills and jobs in Canada) | 2013 |
| ◆ Centre for Labour Management Relations
(C\$7,500 : Impact of commuting on work-life balance) | 2012 |
| ◆ Residential and Civil Construction Alliance of Ontario | |

- (C\$55,000: Simulating the impact of investing in Ontario's infrastructure for economic growth and job creation) 2012
- ◆ Centre for Labour Management Relations (C\$7,000: Impact of unionization on immigrant wages in Canada) 2012
- ◆ MITACS Globalink Program (C\$25,000: Math proficiency in high school students in Ontario and its impact on universities) 2012
- ◆ Office of Vice President Research, Ryerson University. (C\$5,000: Analyzing customer complaints in public sector) 2012
- ◆ Maritz Canada Inc. (C\$15,481: Advanced methods in consumer analytics) 2012
- ◆ Canada Mortgage and Housing Corporation (C\$22,000: Accounting for self-selection bias in travel behavior analysis) 2010-11
- ◆ Transport Canada (C\$160,000: Impact of overseas trade and seaports' capacity) 2007-08
- ◆ Higher Education Commission (Pakistan) (US\$420,000: To improve infrastructure engineering & planning research & practice in developing countries) 2005-08
- ◆ Higher Education Commission (Pakistan) (US\$2,580,000: Government of Pakistan funded my proposal to set-up an infrastructure planning institute in Pakistan) 2005-08
- ◆ Canada Mortgage and Housing Corporation (C\$100,000: A study of new-urbanist developments) 2005
- ◆ Canada Mortgage and Housing Corporation (C\$35,000: Application of CGE models for housing policy) 2005
- ◆ Transport Canada (C\$130,000: Inter-city freight model of shippers) 2004-06
- ◆ Natural Sciences and Engineering Research Council (C\$85,000: To study MAUP and travel demand models) 2004-08
- ◆ Canadian Institutes of Health Research (C\$20,000: To study the link between cancer and traffic-related emissions) 2004-05
- ◆ SSHRC's Major Collaborative Research Initiative (MCRI) (C\$30,000: To analyze equity dimensions of accessibility) 2004-05
- ◆ Canada Foundation for Innovation (C\$440,000: To develop integrated land use transportation models) 2003-06
- ◆ McGill Startup Grant (C\$40,000: Startup funding to develop land use models) 2002-05

PROFESSIONAL SERVICE

- ◆ Senior researcher fellow with the Canadian Network for Research on Terrorism, Security, and Society, which was based at the University of British Columbia, Vancouver and now relocating to University of Waterloo.
- ◆ My pro-bono online videos (www.youtube.com/regionomics) offer training on applied statistical analysis. These videos have been watched over 450,000 times, which is equivalent to delivering 6,700 hours of lectures or delivering 172 full-semester courses. Current subscribers: 800.
- ◆ I have made available a complete online course in development statistics, which is available online for free with over 12 hours of videos and all supporting materials and readings at <http://sites.google.com/site/stats4dev>.
- ◆ I have served as Vice President (Awards) of *Canadian Transportation Research Forum* (2006-07).

- ◆ Member of Board of Directors of *Canadian Transportation Research Forum* (2004-06).
- ◆ Member of Transportation Research Board's (TRB) committee on Transportation & Land Development.
- ◆ Member of the TRB's Sub-Committee on Integrated Transportation and Land Use Modelling.
- ◆ Referee for *Journal for Environmental Management, Transportation, and Transportation Research Record*.

INTERNATIONAL COLLABORATION

- ◆ Working with the Government of Punjab in Pakistan to develop the provincial Road Sector Policy and train transport planners in travel demand forecasting (2017).
<https://twitter.com/urbanunittwitte/status/889397246214668288>
- ◆ I have served as a foreign advisor to the Higher Education Commission, Government of Pakistan, to establish a US\$3.0 million institute of urban infrastructure planning at the NWFP University of Engineering and Technology in Peshawar, Pakistan.
- ◆ Advisor to the Population Census Organization in Pakistan to develop in-house GIS capabilities to analyze census data.
- ◆ In December 2003, I taught a course in **urban transportation planning** at the National University of Sciences and Technology in Pakistan.

ACADEMIC AWARDS, SCHOLARSHIPS

Teaching Excellence Award	2000
◆ Morrison Hershfield Teaching Excellence Award (U of T) <i>Voted by the students and the faculty as the best teaching assistant</i>	
Publication Awards	2000
◆ Canadian Transportation Research Forum (CTRF) <i>Best Doctoral Research Paper (Jim Davey) Award</i>	1999
◆ Canadian Transportation Research Forum (CTRF) <i>Best Master's Research Paper (Albert Stevens) Award</i>	
Scholarships/Fellowships	
◆ Geoides' Innovative Idea Award	2001
◆ NSERC Post-Doctoral Fellowship (declined)	2001
◆ Transportation Association of Canada (TAC) Scholarship	2000
◆ CSISS Scholarship (Univ. of California)	2000
◆ University of Toronto Open Fellowship	2000-01
◆ NSERC Scholarship (PGS-B)	2000-01
◆ NSERC Scholarship (PGS-B)	1999-00
◆ Ontario Graduate Scholarship (OGS)	1999-00
◆ University of Toronto Open Fellowship	1999-00
◆ Ontario Graduate Scholarship (OGS)	1998-99
◆ University of Toronto Connaught Scholarship	1998-99
◆ University of Toronto Open Fellowship	1998-99
◆ Canadian Transp. Research Forum (Graduate Scholarship)	1998-99
◆ University of Toronto Open Fellowship	1996-97
Leadership Award	
◆ University of Toronto Excellence in Leadership Award	1998
Presentation Awards	
◆ Institute of Transportation Engineers (ITE) <i>Student Research Competition, Best Presentation Award</i>	2000
◆ Institute of Transportation Engineers (ITE) <i>Student Research Competition, Best Presentation Award</i>	1998

RESEARCH SUPERVISION:**Ph.D. examination committees**

- ◆ **Faisal Shaheen.** 2017. Public Policy. Ryerson University.
Thesis: Extending Service Delivery to Informal Settlements of South Asia: Examining the Role of State and Non-State Actors.
- ◆ **Taha Saleem.** 2016. Civil Engineering. Ryerson University.
Thesis: Advancing the Methodology for Predicting the Safety Effects Of Highway Design And Operational Elements.
- ◆ **Ayad Hamadi.** 2016. Civil Engineering. University of Toronto. Comprehensive Examination Examiner.
- ◆ **Kasra Rezaee.** 2014. Civil Engineering. Ryerson University.
Thesis: Decentralized automated optical metering using multi-agent reinforcement learning
- ◆ **Amulya Gurtu.** Aug. 28, 2014. Mechanical and Industrial Engineering. Ryerson University.
Thesis: A framework for reducing greenhouse gas (GHG) emissions through carbon pricing for offshore outsourcing

Training of Highly Qualified Professionals:

- ◆ **Rebecca Ke,** MA Economics (University of Toronto), 2014, Senior housing needs, mismatch between training, education, and employment
- ◆ **Marshall Boyd,** MA Economics (York University), 2013-14, Labour econometrics, immigrant wages
- ◆ **Ioana Moca,** MA Economics (York University), 2013-14, Labour econometrics, immigrant wages.
- ◆ **Kenneth Kerr,** MA Economics (York University), 2012, Econometrics of commuting to work.
- ◆ **Stein Montiero,** MA Economics (York University), 2011, Analyzing customer complaints in public sector agencies.

Recent Graduates:**Ph.D. Students:**

- ◆ **Yongsheng Chen,** Civil Engineering, Ryerson University (2013).
Thesis: Improving behavioural fidelity of traffic safety models.
(Co-supervisor, with Prof. Bhagwant Persaud)
- ◆ **Bilal Farooq,** Civil Engineering, University of Toronto (2010).
Thesis: Study of housing supply dynamics in large metropolitan areas.
(Co-supervisor, with Prof. Eric Miller)
Now serving as an assistant professor at École Polytechnique in Montréal.
- ◆ **Zachary Patterson,** Department of Geography, McGill University (2007).
Thesis: Innovations in inter-modal freight transport and their potential for emissions reductions on the Montréal to Toronto corridor.
Now serving as an assistant professor and Canada Research Chair in land use modelling at Concordia University.

Major Research Papers (MBA students), TRSM

Year	Supervised as First or second reader
2014	2
2013	3
2012	8
2011	4
2010	6
2009	12
2008	6

Masters Students:

- ◆ **Melissa Golberg**, Ted Rogers School of Management, Ryerson University. 2018.
Thesis: Commercialization of academic research at Canadian universities: Optimizing technology transfer.
- ◆ **Jesse Allen**, Ted Rogers School of Management, Ryerson University. 2017.
Thesis: Impact of construction of transit infrastructure on neighbouring property values.
- ◆ **Kamran Khan**, Ted Rogers School of Management, Ryerson University. 2017.
Thesis: Determining the Return on Investment of Big Data Projects.
- ◆ **Rinoy Matthew**, Ted Rogers School of Management, Ryerson University. 2017.
Thesis: Short by a Quarter. Do cab drivers report different fares when paid by credit than by cash? A Big Data analysis of 100 million cab rides in New York.
- ◆ **Maryam Khan**, School of Urban Planning, McGill University. 2016. (with Professor M. Badami)
Thesis: Impediments to the use of Bus Rapid Transit in Islamabad.
- ◆ **Violette Henein**, Ted Rogers School of Management, Ryerson University. 2016.
Thesis: Housing markets and macroeconomy in Canada.
- ◆ **Dan Deleanu**, Ted Rogers School of Management, Ryerson University. 2015.
Thesis: Impact of school quality on neighbouring property values.
- ◆ **Lucine Edwards**, Ted Rogers School of Management, Ryerson University. 2015.
Thesis: Price Movements of Higher Priced “Luxury” Property and Lower Priced “Standard” Properties in Toronto.
- ◆ **Tommy Au**, School of Urban & Regional Planning, Ryerson University, 2011.
Thesis: Improving governance structures of large public transit agencies.
- ◆ **Ian Clendening**, School of Urban & Regional Planning, Ryerson University, 2011.
Thesis: Impact of development charges on homebuilding industry.
- ◆ **Liam Donaldson**, School of Urban & Regional Planning, Ryerson University, 2011.
Thesis: The home-work locational trade-off for urban poor workers.
- ◆ **Sam Schachar**, School of Urban & Regional Planning, Ryerson University, 2011.
Thesis: Urbanization economies: exploring the diminishing returns to density.

- ◆ **John O'Neill**, School of Urban & Regional Planning, Ryerson University, 2011.
Thesis: Innovative strategies for waste management in urban areas.
- ◆ **Craig Rohe**, School of Urban & Regional Planning, Ryerson University, 2011.
Thesis: The trade-off between housing and transport costs and its impact on locational choices of workers.
- ◆ **Sean Nix**, Department of Civil Engineering, Ryerson University (Civil Engineering, 2009).
Thesis: Quantifying the Impact of Modifiable Areal Unit Problem in Travel Demand Models.
- ◆ **Stewart Sutherland**, Masters in Spatial Analysis, Ryerson University (Geography, 2009).
Thesis: Modeling the residential location choices of urban households.
- ◆ **Cara Sanders**, Masters in Spatial Analysis, Ryerson University (Geography, 2008).
Thesis: Housing challenges faced by First Nations in urban Canada.
- ◆ **Jacob Ritchie**, School of Urban Planning, McGill University (MUP, 2007).
Thesis: Analysing the decision-making of homebuilders in Toronto.
- ◆ **John DeWolfe**, School of Urban Planning, McGill University (MUP, 2006).
Thesis: Factors affecting transit ridership of regional trains.
- ◆ **Guillaume Rivard**, School of Urban Planning, McGill University (MUP, 2006).
Thesis: Analysing the interdependencies between suburbanization of employment and transport infrastructure in the Greater Montreal Area.
- ◆ **Rita Seto**, School of Urban Planning, McGill University. (MUP, 2006)
Thesis: Simulation of transit commutes in Montreal using GIS.
- ◆ **Nathan Miller**, School of Urban Planning, McGill University. (MUP, 2006)
Thesis: Developing a framework to simulate commercial vehicle trips in Montreal.
- ◆ **Rahel Merissa**, Department of Civil Engineering and Applied Mechanics, McGill University. (MEng, 2006)
Thesis: Urban Journeys Unveiled: A Study of Work Commutes Among the Montreal Disadvantaged.
- ◆ **Suzanne Glenn**, School of Urban Planning, McGill University. (MUP, 2005)
Thesis: A critical evaluation of the demise of regional governance structures in Alberta.
- ◆ **Timothy Spurr**, Civil Engineering & Applied Mechanics, McGill University. (MEng, 2005)
Thesis: Construction of a detailed deterministic user-equilibrium traffic assignment model for the Greater Montreal Area using Geographic Information Systems.
- ◆ **Andrew Carter**, Department of Geography, McGill University. (With Prof. Gordon Ewing, 2005)
Thesis: Impact of Urban Form on Auto-ownership
- ◆ **Ka Ke Alfred Chu**, School of Urban Planning, McGill University. (MUP, 2004)
Thesis: Feasibility analysis of modernisation, conversion, and reutilization of under-used rail facilities for public transit in Montréal.
- ◆ **Dnyanesh Deshpande**, School of Urban Planning, McGill University. (MUP, 2004)
Thesis: Alternative sources of infrastructure finance for developing countries
- ◆ **Wing Siu**, School of Urban Planning, McGill University. (MUP, 2003)
Thesis: A study of age and gender dimensions of mobility in Montreal.

- ◆ **Sebastián Salazar-Chávez**, School of Urban Planning, McGill University. (MUP, 2002)
Thesis: Institutional re-organisation in urban transportation in the metropolitan area of Lima and Callao.

Undergraduate Students:

- ◆ **Chris Teolis**, Department of Civil Engineering and Applied Mechanics, McGill University. (2006)
Tech-paper: A comparative analysis of dynamic and static traffic assignment models.
- ◆ **Tommy Wong**, Department of Civil Engineering and Applied Mechanics, McGill University. (2006)
Tech-paper: Building a transit assignment model of Montreal using TransCAD.
- ◆ **Elisa Gaetano**, Department of Civil Engineering and Applied Mechanics, McGill University. (2006)
Tech-paper: The state of urban transit in Canada.
- ◆ **Emma Hamilton**, Department of Civil Engineering and Applied Mechanics, McGill University. (2005)
Technical Paper: Design and Development of digital transit networks using Geographic Information Systems.
- ◆ **Peter Szilagyi**, Department of Civil Engineering and Applied Mechanics, McGill University. (2005)
Technical Paper: The Influence of Transit Supply on Transit Use in the United States.
- ◆ **Hank Wong**, Department of Civil Engineering and Applied Mechanics, McGill University. (2004)
Technical Paper: Dynamics of inter-city travel in Canada.
- ◆ **Eric Shelley**, Department of Civil Engineering and Applied Mechanics, McGill University. (2004)
Technical Paper: Travel behaviour in neo-traditional neighbourhoods and implications for equity.
- ◆ **Carmen Wong**, Department of Civil Engineering and Applied Mechanics, McGill University. (2004)
Technical Paper: A comparison of groundside accessibility to airports in Montreal and Toronto.
- ◆ **Catia Moreau**, Department of Civil Engineering and Applied Mechanics, McGill University. (2004)
Technical Paper: Cost uncertainties in large-scale infrastructure projects: A case study of Laval Metro.
- ◆ **Sid Pharasi**, Department of Civil Engineering and Applied Mechanics, McGill University. (2003)
Technical Paper: Developing a digital street network of the Greater Toronto Area for traffic simulation.
- ◆ **Timothy Spurr**, Department of Civil Engineering and Applied Mechanics, McGill University. (2002)
Technical Paper: Developing a digital street network of the Greater Montreal Area for traffic simulation.

Design Studios in Civil Engineering

- ◆ **Ian Borsuk, Isabelle Da Silva, Flavie Gagnon**. Department of Civil Engineering and Applied Mechanics, McGill University. (2004).
Design Project: Design of bus way on LaSalle Spur line.
- ◆ **Nina Ganchev, Joelle St.-Pierre, Jolene Yeats**. Department of Civil Engineering and Applied Mechanics, McGill University. (2003)
Design Project: Improving pedestrian safety at signalized intersections in Montreal.

Student Interns supervised**Ryerson University (Institute of Housing & Mobility)**

- ◆ Prosenjit Dey Chaudhry (post-doc) 2008-09
- ◆ Stewart Sutherland (Graduate, MSA) 2008
- ◆ Christopher Livett (Undergraduate, Geography) 2008
- ◆ Derrick Spennard (Undergraduate, Geography) 2008
- ◆ Brian Gregoul
(Graduate, Urban Planning Univ. of Toronto) 2008
- ◆ Mateen Mahboubi
(Graduate, Civ Eng., Univ. of Toronto) 2008
- ◆ Lindsay Lalonde (Undergraduate, Geography) 2007, 2008

McGill University

- ◆ Rita Seto (Graduate, Urban Planning) 2005
- ◆ Nathan Miller (Graduate, Urban Planning) 2005
- ◆ Emma Hamilton (under graduate, Civil Engineering) 2004
- ◆ Jolene Yeats (under graduate, Civil Engineering) 2003
- ◆ Timothy Spurr (under graduate, Civil Engineering) 2002

MOOCs Developed for IBM's Cognitive Class (Formerly Big Data University)

Statistics 101: Introductory Statistical Analysis

<https://cognitiveclass.ai/courses/statistics-101/>

Statistics 201: Hypothesis Testing

Statistics 301: Regression Analysis

Courses Taught at Ryerson University (2006 – present)

- MB8002: Quantitative Methods for Business
- MT8312: Collaboration and Decision Technologies
- MB8006: Research and Communication for Managers
- MB 8105: Global Logistics
- REM520: Real Estate Economics
- REM750: Real Estate Research Methods
- REM600: Housing and Construction Management
- GMS 803: Principles of Transportation
- RMG 434: Logistics & Supply Chain Management
- RMG 700: Applied Retail Research

Courses Taught at McGill University (2002-2006)

- URBP 619: Transportation and Land Development
- URBP 616: Urban Infrastructure Investments
- CIVE 540: Urban Transportation Planning
- CIVE 319: Transportation Engineering
Workshops in statistical modelling