



Antonio Páez

Professor

December 2021

School of Earth, Environment and Society

McMaster University

1280 Main St West, Hamilton, Ontario, Canada L8S 1S4

+1 905 525 9140
experts.mcmaster.ca/display/paezha
paezha@mcmaster.ca
paezha

About me

This is me.

About me

- I trained in civil engineering before being adopted into geography.
- My areas of interest include spatial analysis, spatial statistics, transportation, travel behavior, cities.
- Also, too, mathematics, computer languages, science fiction, poetry, and memes.
- I have been known to look professorial on occasion.
- At this rate my only hope of being recognized is as the most promising oldest researcher in my discipline.

Education

1997-2000	PhD	Tohoku University
	Sendai, Japan	
	• Thesis Title: Applied Statistical Analysis of Geographically Detailed Data with Emphasis on Spatial Effects	
1995-1997	M.Sc.	Tohoku University
	Sendai, Japan	
	• Thesis Title: Evaluation of Environmental Changes Caused by Urbanization	
1989-1993	B.Eng.	Instituto Tecnológico y de Estudios Superiores de Monterrey
	Monterrey, Mexico	

Current Status at McMaster

Full Professor in the School of Earth, Environment and Society since 2014. Tenured since 2007.

Employment History

Academic

July 2014-present	Professor	School of Earth, Society and Environment, McMaster University
July 2007-June 2014	Associate Professor	School of Earth, Environment and Society, McMaster University
July 2002-June 2007	Assistant Professor	School of Geography and Earth Sciences, McMaster University
October 2000-March 2002	Research Fellow-Lecturer	Center for Northeast Asian Studies, Tohoku University
January 1993-December 1993	Instructor-Topographical Survey Laboratory	Dept. of Civil Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey
		Monterrey, Mexico

Industry

Surveyor and construction site supervisor (August 1993 – March 1995) Topographical survey projects in Nuevo León, Mexico, sponsored by various Municipal Public Works Departments (Monterrey, Guadalupe, Santa Catarina), and by Mercedes-Benz. These projects involved in-field data collection and computer aided design. Construction site supervision.

Editor-in-Chief:

Journal of Geographical Systems (January, 2008-present)

Associate Editor:

Papers in Regional Science (November, 2016-August, 2019)

Editorial Board Membership

January 2012-December 2017 Computers, Environment, and Urban Systems

April 2014-March 2017 Decision Support Systems

January 2014-present Economic and Business Letters

January 2010-December 2017 Environment and Planning A

2018-present Geographical Analysis

2015-present Ingeniería de Transporte

January 2019-present International Journal of Geographic Information Science

2018-present Journal of Transport Geography

January, 2008-May, 2012 Open Environmental Journal

January, 2008-May, 2012 Open Geography Journal

January, 2008-May, 2012 Open Urban Studies Journal

January 2015-present Papers in Regional Science

January 2012-present Transportation

Journal Referee

Number of Total Lifetime Reviews

301

Number of Reviews in 2021

29

Reviews-to-Publications per Year

Fig. 1 is a summary of journal reviews-to-publications per year showing contributions to peer-review relative to demands on peer-review.

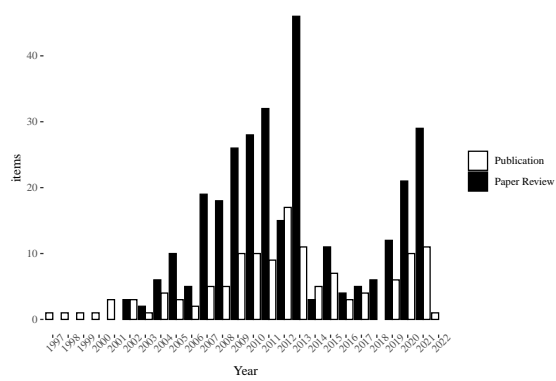


Figure 1: Reviews-to-publications by year

Reviews per journal

2	Ageing and Society
4	Annals of the Association of American Geographers
1	Applied Geography
2	Applied Spatial Analysis and Policy
1	Automotives
1	Canadian Journal of Regional Science
1	Cartography and Geographic Information Science
1	Case Studies in Transport Policy
1	Computational and Mathematical Organization Theory
1	Computers and Geosciences
14	Computers, Environment and Urban Systems
1	Decision Support Systems
1	Ecological Applications
1	Economia Aplicada
1	Economic Modelling
15	Environment and Planning A
4	Environment and Planning B
1	Environmental Modelling & Assessment
4	Findings
1	Geo-Spatial Information Science
23	Geographical Analysis
7	Health and Place
1	Health Policy and Technology
1	IEEE Access

Areas of Interest

Spatial data analysis and statistics; transportation modeling; travel behavior; health geography; Geographic Information Systems.

Honours

Visiting Professorships

2008	Visiting Professorship Madrid, Spain	Universidad Politécnica de Madrid
------	---	-----------------------------------

Scholarships

October, 1997-September, 2000	Graduate Scholarship (Monbusho) Japan	Japanese Ministry of Science, Education and Culture
April, 1995-September, 1997	Graduate Scholarship (Monbusho) Japan	Japanese Ministry of Science, Education and Culture

Scientific Awards

October, 2002	Best Presentation Award 57th Annual Conference of the JSCE • K. Kawai, K. Miyamoto, V. Vichiensan, and Antonio Páez	Japan Society of Civil Engineers
2010	Meredith F. Burrill Award for work of exceptional merit and quality that lies at or near the intersection of basic research in geography on the one hand, and practical applications or policy implications on the other • Antonio Páez, Ruben G. Mercado, Steven Farber, Catherine Morency, and Matthew Roorda	Association of American Geographers

Trainee Honours

2021	Transportation Geography Specialty Group of the Association of American Geographers Winner, Master's Competition	Elise Desjardins
2016	International Transportation Forum Young Researcher Award	Md Moniruzzaman
2014	Canadian Institutes for Health Research, Institute of Aging Age+ Prize	Md Moniruzzaman
2013	World Conference of Transport Research Society Ph.D. Prestige Grant	Md Moniruzzaman
2012	Transportation Geography Specialty Group of the Association of American Geographers Winner, Master's Competition	Md Moniruzzaman
2011	Transportation Geography Specialty Group of the Association of American Geographers Honorable Mention, Ph.D. Competition	Steven Farber

Other

2021	Web of Science • Páez A, Scott DM, Morency C (2012) Measuring accessibility: Positive and normative aspects of various accessibility indicators, Journal of Transport Geography. 25 141-153 (doi: 10.1016/j.jtrangeo.2012.03.016) • Páez A, Lopez FA, Menezes T, Cavalcanti R, Galdino da Rocha Pitta M (2021) A spatio-temporal analysis of the environmental correlates of COVID-19 incidence in Spain, Geographical Analysis, 53 (3) 397-421 (doi:10.1111/gean.12241)	Highly Cited Badge
------	--	--------------------

Supervisorships

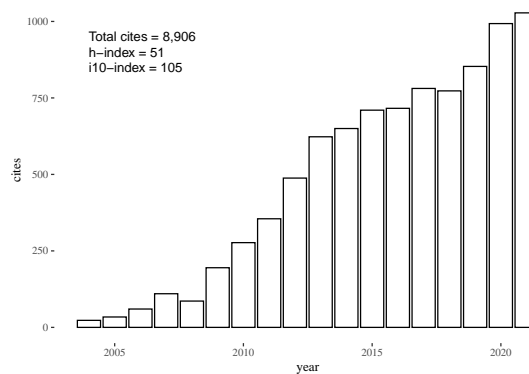


Figure 2: Citations per year according to Google Scholar

Undergraduate

Diploma and Certificate

Master

Ph.D.

Supervisory Committees

Examination Committees

Research and Other Funding

Research Impact

Fig. 2 is a summary of research impact according to Google Scholar.

Lifetime Publications

Peer-Reviewed

Edited Books

Book Chapters

Journal Articles

1. Desjardins, E., Higgins, C. D., & Páez, A. (2022). Examining equity in accessibility to bike share: A balanced floating catchment area approach. *Transportation Research Part D: Transport and Environment*, 102, 103091. <https://doi.org/https://doi.org/10.1016/j.trd.2021.103091>
2. Whalen, K., & Paez, A. (2021). Student perceptions of reflection and the acquisition of higher-order thinking skills in a university sustainability course [Journal Article]. *Journal of Geography in Higher Education*, 45(1), 108–127. <https://doi.org/10.1080/03098265.2020.1804843>
3. Pereira, R. H. M., Braga, C. K. V., Servo, L. M., Serra, B., Amaral, P., Gouveia, N., & Paez, A. (2021). Geographic access to COVID-19 healthcare in brazil using a balanced float catchment area approach [Journal Article]. *Social Science & Medicine*, 273. <https://doi.org/10.1016/j.socscimed.2021.113773>
4. Paez, A., Lopez, F. A., Menezes, T., Cavalcanti, R., & Rocha Pitta, M. G. da. (2021). A spatio-temporal analysis of the environmental correlates of COVID-19 incidence in spain [Journal Article]. *Geographical Analysis*, 53(3), 397–421. <https://doi.org/10.1111/gean.12241>
5. Páez, A., & Higgins, C. D. (2021). An examination of the accessibility implications of a pilot COVID-19 vaccination program in hamilton, ontario [Journal Article]. *Findings*. <https://doi.org/10.32866/001c.24082>
6. Paez, A. (2021). Open spatial sciences: An introduction [Journal Article]. *Journal of Geographical Systems*, 23(4), 467–476. <https://doi.org/10.1007/s10109-021-00364-4>

7. Lira, B. M., & Paez, A. (2021). Do drivers dream of walking? An investigation of travel mode dissonance from the perspective of affective values [Journal Article]. *Journal of Transport & Health*, 20. <https://doi.org/10.1016/j.jth.2021.101015>
8. Higgins, C. D., Paez, A., Kim, G., & Wang, J. (2021). Changes in accessibility to emergency and community food services during COVID-19 and implications for low income populations in hamilton, ontario [Journal Article]. *Social Science & Medicine*, 291. <https://doi.org/10.1016/j.socscimed.2021.114442>
9. Eldeeb, G., Mohamed, M., & Paez, A. (2021). Built for active travel? Investigating the contextual effects of the built environment on transportation mode choice [Journal Article]. *Journal of Transport Geography*, 96. <https://doi.org/10.1016/j.jtrangeo.2021.103158>
10. Doulabi, S., Hassan, H. M., Ferguson, M. R., Razavi, S., & Paez, A. (2021). Exploring the determinants of older adults' susceptibility to pedestrians' incidents [Journal Article]. *Accident Analysis and Prevention*, 155. <https://doi.org/10.1016/j.aap.2021.106100>
11. Desjardins, E., Higgins, C. D., Scott, D. M., Apatu, E., & Paez, A. (2021). Using environmental audits and photo-journeys to compare objective attributes and bicyclists' perceptions of bicycle routes [Journal Article]. *Journal of Transport & Health*, 22. <https://doi.org/10.1016/j.jth.2021.101092>
12. Desjardins, E., Apatu, E., Razavi, S. D., Higgins, C. D., Scott, D. M., & Paez, A. (2021). "Going through a little bit of growing pains": A qualitative study of the factors that influence the route choice of regular bicyclists in a developing cycling city [Journal Article]. *Transportation Research Part F-Traffic Psychology and Behaviour*, 81, 431–444. <https://doi.org/10.1016/j.trf.2021.06.005>
13. Victoriano, R., Paez, A., & Carrasco, J.-A. (2020). Time, space, money, and social interaction: Using machine learning to classify people's mobility strategies through four key dimensions [Journal Article]. *Travel Behaviour and Society*, 20, 1–11. <https://doi.org/10.1016/j.tbs.2020.02.004>
14. Sarlas, G., Paez, A., & Axhausen, K. W. (2020). Betweenness-accessibility: Estimating impacts of accessibility on networks [Journal Article]. *Journal of Transport Geography*, 84. <https://doi.org/10.1016/j.jtrangeo.2020.102680>
15. Romero, F., Gomez, J., Paez, A., & Manuel Vassallo, J. (2020). Toll roads vs. Public transportation: A study on the acceptance of congestion-calming measures in madrid [Journal Article]. *Transportation Research Part a-Policy and Practice*, 142, 319–342. <https://doi.org/10.1016/j.tra.2020.11.001>
16. Paez, A., Hassan, H., Ferguson, M., & Razavi, S. (2020). A systematic assessment of the use of opponent variables, data subsetting and hierarchical specification in two-party crash severity analysis [Journal Article]. *Accident Analysis and Prevention*, 144. <https://doi.org/10.1016/j.aap.2020.105666>
17. Paez, A., Anjum, Z., Dickson-Anderson, S. E., Schuster-Wallace, C. J., Martin Ramos, B., & Higgins, C. D. (2020). Comparing distance, time, and metabolic energy cost functions for walking accessibility in infrastructure-poor regions [Journal Article]. *Journal of Transport Geography*, 82. <https://doi.org/10.1016/j.jtrangeo.2019.102564>
18. Páez, A. (2020). Using google community mobility reports to investigate the growth of COVID-19 in the united states [Journal Article]. *Findings*. <https://doi.org/10.32866/001c.12976>
19. Jamal, S., & Páez, A. (2020). Changes in trip-making frequency by mode during the COVID-19 emergency in bangladesh [Journal Article]. *Findings*. <https://doi.org/10.32866/001c.17977>
20. Jamal, S., Mohiuddin, H., & Paez, A. (2020). How do the perceptions of neighborhood conditions impact active transportation? A study in rajshahi, bangladesh [Journal Article]. *Transportation Research Part D-Transport and Environment*, 87. <https://doi.org/10.1016/j.trd.2020.102525>

21. He, L., Paez, A., Jiao, J., An, P., Lu, C., Mao, W., & Long, D. (2020). Ambient population and larceny-theft: A spatial analysis using mobile phone data [Journal Article]. *Isprs International Journal of Geo-Information*, 9(6). <https://doi.org/10.3390/ijgi9060342>
22. Cupido, K., Jevtic, P., & Paez, A. (2020). Spatial patterns of mortality in the united states: A spatial filtering approach [Journal Article]. *Insurance Mathematics & Economics*, 95, 28–38. <https://doi.org/10.1016/j.insmatheco.2020.08.003>
23. Whalen, K., & Paez, A. (2019). Development of a new framework to guide, assess, and evaluate student reflections in a university sustainability course [Journal Article]. *Teaching & Learning Inquiry-the Issotl Journal*, 7(1), 55–77. <https://doi.org/10.20343/teachlearninqu.7.1.5>
24. Paez, A., Lopez, F., Ruiz, M., & Camacho, M. (2019). Inducing non-orthogonal and non-linear decision boundaries in decision trees via interactive basis functions [Journal Article]. *Expert Systems with Applications*, 122, 183–206. <https://doi.org/10.1016/j.eswa.2018.12.041>
25. Paez, A., Higgins, C. D., & Vivona, S. F. (2019). Demand and level of service inflation in floating catchment area (FCA) methods [Journal Article]. *Plos One*, 14(6). <https://doi.org/10.1371/journal.pone.0218773>
26. Paez, A. (2019). Using spatial filters and exploratory data analysis to enhance regression models of spatial data [Journal Article]. *Geographical Analysis*, 51(3), 314–338. <https://doi.org/10.1111/gean.12180>
27. Martin, B., & Paez, A. (2019). Individual and geographic variations in the propensity to travel by active modes in vitoria-gasteiz, spain [Journal Article]. *Journal of Transport Geography*, 76, 103–113. <https://doi.org/10.1016/j.jtrangeo.2019.03.005>
28. Arranz-Lopez, A., Soria-Lara, J. A., Witlox, F., & Paez, A. (2019). Measuring relative non-motorized accessibility to retail activities [Journal Article]. *International Journal of Sustainable Transportation*, 13(9), 639–651. <https://doi.org/10.1080/15568318.2018.1498563>
29. Lopez, F. A., Paez, A., Carrasco, J. A., & Ruminot, N. A. (2017). Vulnerability of nodes under controlled network topology and flow autocorrelation conditions [Journal Article]. *Journal of Transport Geography*, 59, 77–87. <https://doi.org/10.1016/j.jtrangeo.2017.02.002>
30. Lopez, F. A., & Paez, A. (2017). Spatial clustering of high-tech manufacturing and knowledge-intensive service firms in the greater toronto area [Journal Article]. *Canadian Geographer-Geographe Canadien*, 61(2), 240–252. <https://doi.org/10.1111/cag.12326>
31. He, L., Paez, A., & Liu, D. (2017). Built environment and violent crime: An environmental audit approach using google street view [Journal Article]. *Computers Environment and Urban Systems*, 66, 83–95. <https://doi.org/10.1016/j.compenvurbsys.2017.08.001>
32. He, L., Paez, A., & Liu, D. (2017). Persistence of crime hot spots: An ordered probit analysis [Journal Article]. *Geographical Analysis*, 49(1), 3–22. <https://doi.org/10.1111/gean.12107>
33. Rojas, C., Paez, A., Barbosa, O., & Carrasco, J. (2016). Accessibility to urban green spaces in chilean cities using adaptive thresholds [Journal Article]. *Journal of Transport Geography*, 57, 227–240. <https://doi.org/10.1016/j.jtrangeo.2016.10.012>
34. Moniruzzaman, M., & Paez, A. (2016). An investigation of the attributes of walkable environments from the perspective of seniors in montreal [Journal Article]. *Journal of Transport Geography*, 51, 85–96. <https://doi.org/10.1016/j.jtrangeo.2015.12.001>
35. Lopez, F. A., Matilla-Garcia, M., Mur, J., Paez, A., & Ruiz, M. (2016). A note on the SG(m) test [Journal Article]. *Journal of Geographical Systems*, 18(1), 87–96. <https://doi.org/10.1007/s10109-015-0221-7>
36. Roofigari-Esfahan, N., Paez, A., & Razavi, S. N. (2015). Location-aware scheduling and control of linear projects: Introducing space-time float prisms [Journal Article]. *Journal of Construction Engineering and Management*, 141(1). [https://doi.org/10.1061/\(asce\)co.1943-7862.0000916](https://doi.org/10.1061/(asce)co.1943-7862.0000916)
37. Neto, R. S., Duarte, G., & Paez, A. (2015). Gender and commuting time in sao paulo metropolitan region [Journal Article]. *Urban Studies*, 52(2), 298–313. <https://doi.org/10.1177/0042098014528392>

38. Moniruzzaman, M., Paez, A., Scott, D., & Morency, C. (2015). Trip generation of seniors and the geography of walking in montreal [Journal Article]. *Environment and Planning a-Economy and Space*, 47(4), 957–976. <https://doi.org/10.1068/a130070p>
39. Moniruzzaman, M., Chudyk, A., Paez, A., Winters, M., Sims-Gould, J., & McKay, H. (2015). Travel behavior of low income older adults and implementation of an accessibility calculator [Journal Article]. *Journal of Transport & Health*, 2(2), 257–268. <https://doi.org/10.1016/j.jth.2015.02.006>
40. He, L., Paez, A., Liu, D., & Jiang, S. (2015). Temporal stability of model parameters in crime rate analysis: An empirical examination [Journal Article]. *Applied Geography*, 58, 141–152. <https://doi.org/10.1016/j.apgeog.2015.02.002>
41. Goetzke, F., Gerike, R., Paez, A., & Dugundji, E. (2015). Social interactions in transportation: Analyzing groups and spatial networks [Journal Article]. *Transportation*, 42(5), 723–731. <https://doi.org/10.1007/s11116-015-9643-9>
42. Farber, S., Ruiz Marin, M., & Paez, A. (2015). Testing for spatial independence using similarity relations [Journal Article]. *Geographical Analysis*, 47(2), 97–120. <https://doi.org/10.1111/gean.12044>
43. Wheeler, D. C., Paez, A., Spinney, J., & Waller, L. A. (2014). A bayesian approach to hedonic price analysis [Journal Article]. *Papers in Regional Science*, 93(3), 663–683. <https://doi.org/10.1111/pirs.12003>
44. Reyes, M., Paez, A., & Morency, C. (2014). Walking accessibility to urban parks by children: A case study of montreal [Journal Article]. *Landscape and Urban Planning*, 125, 38–47. <https://doi.org/10.1016/j.landurbplan.2014.02.002>
45. Poulou, T., Elliott, S. J., Paez, A., & Newbold, K. B. (2014). Building obesity in canada: Understanding the individual-and neighbourhood-level determinants using a multi-level approach [Journal Article]. *Geospatial Health*, 9(1), 45–55. <https://doi.org/10.4081/gh.2014.5>
46. Moniruzzaman, M., Paez, A., & Morency, C. (2014). Compliance potential mapping: A tool to assess potential contributions of walking towards physical activity guidelines [Journal Article]. *Bmc Public Health*, 14. <https://doi.org/10.1186/1471-2458-14-511>
47. Farber, S., Bartholomew, K., Li, X., Paez, A., & Habib, K. M. N. (2014). Assessing social equity in distance based transit fares using a model of travel behavior [Journal Article]. *Transportation Research Part a-Policy and Practice*, 67, 291–303. <https://doi.org/10.1016/j.tra.2014.07.013>
48. Whalen, K. E., Paez, A., & Carrasco, J. A. (2013). Mode choice of university students commuting to school and the role of active travel [Journal Article]. *Journal of Transport Geography*, 31, 132–142. <https://doi.org/10.1016/j.jtrangeo.2013.06.008>
49. Silva, R. R. da, & Páez, A. (2013). O isolamento geoeconômico dos municípios da região norte do brasil: Uma proposta para quantificá-lo. *Revista Brasileira de Estudos Regionais e Urbanos*, 7(1), 1–18.
50. Scott, D. M., Dugundji, E. R., & Paez, A. (2013). The social dimension of activity, travel and location choice behavior [Journal Article]. *Journal of Transport Geography*, 31, 212–215. <https://doi.org/10.1016/j.jtrangeo.2013.06.009>
51. Paez, A., Moniruzzaman, M., Bourbonnais, P.-L., & Morency, C. (2013). Developing a web-based accessibility calculator prototype for the greater montreal area [Journal Article]. *Transportation Research Part a-Policy and Practice*, 58, 103–115. <https://doi.org/10.1016/j.tra.2013.10.020>
52. Paez, A., Lopez, F. A., Ruiz, M., & Morency, C. (2013). Development of an indicator to assess the spatial fit of discrete choice models [Journal Article]. *Transportation Research Part B-Methodological*, 56, 217–233. <https://doi.org/10.1016/j.trb.2013.08.009>
53. Paez, A., Farber, S., Mercado, R., Roorda, M., & Morency, C. (2013). Jobs and the single parent: An analysis of accessibility to employment in toronto [Journal Article]. *Urban Geography*, 34(6), 815–842. <https://doi.org/10.1080/02723638.2013.778600>

54. Paez, A., Esita, J., Newbold, K. B., Heddle, N. M., & Blake, J. T. (2013). Exploring resource allocation and alternate clinic accessibility landscapes for improved blood donor turnout [Journal Article]. *Applied Geography*, 45, 89–97. <https://doi.org/10.1016/j.apgeog.2013.08.008>
55. Paez, A. (2013). Mapping travelers' attitudes: Does space matter? [Journal Article]. *Journal of Transport Geography*, 26, 117–125. <https://doi.org/10.1016/j.jtrangeo.2012.09.002>
56. Moniruzzaman, M., Paez, A., Habib, K. M. N., & Morency, C. (2013). Mode use and trip length of seniors in montreal [Journal Article]. *Journal of Transport Geography*, 30, 89–99. <https://doi.org/10.1016/j.jtrangeo.2013.03.007>
57. Le Gallo, J., & Paez, A. (2013). Using synthetic variables in instrumental variable estimation of spatial series models [Journal Article]. *Environment and Planning a-Economy and Space*, 45(9), 2227–2242. <https://doi.org/10.1068/a45443>
58. Lavery, T. A., Paez, A., & Kanaroglou, P. S. (2013). Driving out of choices: An investigation of transport modality in a university sample [Journal Article]. *Transportation Research Part a-Policy and Practice*, 57, 37–46. <https://doi.org/10.1016/j.tra.2013.09.010>
59. Whalen, K. E., Paez, A., Bhat, C., Moniruzzaman, M., & Paleti, R. (2012). T-communities and sense of community in a university town: Evidence from a student sample using a spatial ordered-response model [Journal Article]. *Urban Studies*, 49(6), 1357–1376. <https://doi.org/10.1177/0042098011411942>
60. Scott, D. M., Dam, I., Paez, A., & Wilton, R. D. (2012). Investigating the effects of social influence on the choice to telework [Journal Article]. *Environment and Planning A*, 44(5), 1016–1031. <https://doi.org/10.1068/a43223>
61. Ruiz, M., Lopez, F., & Paez, A. (2012). Comparison of thematic maps using symbolic entropy [Journal Article]. *International Journal of Geographical Information Science*, 26(3), 413–439. <https://doi.org/10.1080/13658816.2011.586327>
62. Paez, A., Trepanier, M., & Morency, C. (2012). Modeling isoexposure to transit users for market potential analysis [Journal Article]. *Transportation Research Part a-Policy and Practice*, 46(10), 1517–1527. <https://doi.org/10.1016/j.tra.2012.07.004>
63. Paez, A., Scott, D. M., & Morency, C. (2012). Measuring accessibility: Positive and normative implementations of various accessibility indicators [Journal Article]. *Journal of Transport Geography*, 25, 141–153. <https://doi.org/10.1016/j.jtrangeo.2012.03.016>
64. Paez, A., Ruiz, M., Lopez, F., & Logan, J. (2012). Measuring ethnic clustering and exposure with the q statistic: An exploratory analysis of irish, germans, and yankees in 1880 newark [Journal Article]. *Annals of the Association of American Geographers*, 102(1), 84–102. <https://doi.org/10.1080/00045608.2011.620502>
65. Paez, A., & Farber, S. (2012). Participation and desire: Leisure activities among canadian adults with disabilities [Journal Article]. *Transportation*, 39(6), 1055–1078. <https://doi.org/10.1007/s11116-012-9385-x>
66. Moniruzzaman, M., & Paez, A. (2012). Accessibility to transit, by transit, and mode share: Application of a logistic model with spatial filters [Journal Article]. *Journal of Transport Geography*, 24, 198–205. <https://doi.org/10.1016/j.jtrangeo.2012.02.006>
67. Moniruzzaman, M., & Paez, A. (2012). A model-based approach to select case sites for walkability audits [Journal Article]. *Health & Place*, 18(6), 1323–1334. <https://doi.org/10.1016/j.healthplace.2012.09.013>
68. Mercado, R. G., Paez, A., Farber, S., Roorda, M. J., & Morency, C. (2012). Explaining transport mode use of low-income persons for journey to work in urban areas: A case study of ontario and quebec [Journal Article]. *Transportmetrica*, 8(3), 157–179. <https://doi.org/10.1080/18128602.2010.539413>
69. Mejia-Dorantes, L., Paez, A., & Manuel Vassallo, J. (2012). Transportation infrastructure impacts on firm location: The effect of a new metro line in the suburbs of madrid [Journal Article]. *Journal of Transport Geography*, 22, 236–250. <https://doi.org/10.1016/j.jtrangeo.2011.09.006>

70. López, F. A., & Páez, A. (2012). Distribution-free inference for q (m) based on permutational bootstrapping: An application to the spatial co-location pattern of firms in madrid. *Estadística Española*, 54(177), 135–156.
71. Farber, S., Paez, A., & Morency, C. (2012). Activity spaces and the measurement of clustering and exposure: A case study of linguistic groups in montreal [Journal Article]. *Environment and Planning a-Economy and Space*, 44(2), 315–332. <https://doi.org/10.1068/a44203>
72. Dugundji, E., Scott, D. M., Carrasco, J. A., & Paez, A. (2012). Urban mobility and social-spatial contact-introduction [Journal Article]. *Environment and Planning a-Economy and Space*, 44(5), 1011–1015. <https://doi.org/10.1068/a45183>
73. Drackley, A., Newbold, K. B., Paez, A., & Heddle, N. (2012). Forecasting ontario's blood supply and demand [Journal Article]. *Transfusion*, 52(2), 366–374. <https://doi.org/10.1111/j.1537-2995.2011.03280.x>
74. Cimaroli, K., Paez, A., Newbold, K. B., & Heddle, N. M. (2012). Individual and contextual determinants of blood donation frequency with a focus on clinic accessibility: A case study of toronto, canada [Journal Article]. *Health & Place*, 18(2), 424–433. <https://doi.org/10.1016/j.healthplace.2011.12.005>
75. Barufi, A. M., Haddad, E., & Paez, A. (2012). Infant mortality in brazil, 1980–2000: A spatial panel data analysis [Journal Article]. *Bmc Public Health*, 12. <https://doi.org/10.1186/1471-2458-12-181>
76. Wilton, R. D., Paez, A., & Scott, D. M. (2011). Why do you care what other people think? A qualitative investigation of social influence and telecommuting [Journal Article]. *Transportation Research Part a-Policy and Practice*, 45(4), 269–282. <https://doi.org/10.1016/j.tra.2011.01.002>
77. Schettini, D., Azzoni, C. R., & Paez, A. (2011). Neighborhood and efficiency in manufacturing in brazilian regions: A spatial markov chain analysis [Journal Article]. *International Regional Science Review*, 34(4), 397–418. <https://doi.org/10.1177/0160017611403141>
78. Paez, A., Trepanier, M., & Morency, C. (2011). Geodemographic analysis and the identification of potential business partnerships enabled by transit smart cards [Journal Article]. *Transportation Research Part a-Policy and Practice*, 45(7), 640–652. <https://doi.org/10.1016/j.tra.2011.04.002>
79. Paez, A., Farber, S., & Wheeler, D. (2011). A simulation-based study of geographically weighted regression as a method for investigating spatially varying relationships [Journal Article]. *Environment and Planning a-Economy and Space*, 43(12), 2992–3010. <https://doi.org/10.1068/a44111>
80. Morency, C., Paez, A., Roorda, M. J., Mercado, R., & Farber, S. (2011). Distance traveled in three canadian cities: Spatial analysis from the perspective of vulnerable population segments [Journal Article]. *Journal of Transport Geography*, 19(1), 39–50. <https://doi.org/10.1016/j.jtrangeo.2009.09.013>
81. Mejia Dorantes, L., Paez, A., & Manuel Vassallo, J. (2011). Analysis of house prices to assess economic impacts of new public transport infrastructure madrid metro line 12 [Journal Article]. *Transportation Research Record*, 2245, 131–139. <https://doi.org/10.3141/2245-16>
82. Farber, S., Paez, A., Mercado, R. G., Roorda, M., & Morency, C. (2011). A time-use investigation of shopping participation in three canadian cities: Is there evidence of social exclusion? [Journal Article]. *Transportation*, 38(1), 17–44. <https://doi.org/10.1007/s11116-010-9282-0>
83. Farber, S., & Paez, A. (2011). Running to stay in place: The time-use implications of automobile oriented land-use and travel [Journal Article]. *Journal of Transport Geography*, 19(4), 782–793. <https://doi.org/10.1016/j.jtrangeo.2010.09.008>
84. Dugundji, E. R., Paez, A., Arentze, T. A., Walker, J. L., Carrasco, J. A., Marchal, F., & Nakanishi, H. (2011). Transportation and social interactions [Journal Article]. *Transportation Research Part a-Policy and Practice*, 45(4), 239–247. <https://doi.org/10.1016/j.tra.2011.01.001>
85. Schwanen, T., & Paez, A. (2010). The mobility of older people - an introduction [Journal Article]. *Journal of Transport Geography*, 18(5), 591–595. <https://doi.org/10.1016/j.jtrangeo.2010.06.001>

86. Ruiz, M., Lopez, F., & Paez, A. (2010). Testing for spatial association of qualitative data using symbolic dynamics [Journal Article]. *Journal of Geographical Systems*, 12(3), 281–309. <https://doi.org/10.1007/s10109-009-0100-1>
87. Roorda, M. J., Paez, A., Morency, C., Mercado, R., & Farber, S. (2010). Trip generation of vulnerable populations in three canadian cities: A spatial ordered probit approach [Journal Article]. *Transportation*, 37(3), 525–548. <https://doi.org/10.1007/s11116-010-9263-3>
88. Ribeiro, A., Antunes, A. P., & Paez, A. (2010). Road accessibility and cohesion in lagging regions: Empirical evidence from portugal based on spatial econometric models [Journal Article]. *Journal of Transport Geography*, 18(1), 125–132. <https://doi.org/10.1016/j.jtrangeo.2009.03.002>
89. Paez, A., & Whalen, K. (2010). Enjoyment of commute: A comparison of different transportation modes [Journal Article]. *Transportation Research Part a-Policy and Practice*, 44(7), 537–549. <https://doi.org/10.1016/j.tra.2010.04.003>
90. Paez, A., Mercado, R. G., Farber, S., Morency, C., & Roorda, M. (2010). Accessibility to health care facilities in montreal island: An application of relative accessibility indicators from the perspective of senior and non-senior residents [Journal Article]. *International Journal of Health Geographics*, 9. <https://doi.org/10.1186/1476-072x-9-52>
91. Paez, A., Mercado, R. G., Farber, S., Morency, C., & Roorda, M. (2010). Relative accessibility deprivation indicators for urban settings: Definitions and application to food deserts in montreal [Journal Article]. *Urban Studies*, 47(7), 1415–1438. <https://doi.org/10.1177/0042098009353626>
92. Mercado, R., Paez, A., & Newbold, K. B. (2010). Transport policy and the provision of mobility options in an aging society: A case study of ontario, canada [Journal Article]. *Journal of Transport Geography*, 18(5), 649–661. <https://doi.org/10.1016/j.jtrangeo.2010.03.017>
93. Farber, S., & Paez, A. (2010). Employment status and commute distance of canadians with disabilities [Journal Article]. *Transportation*, 37(6), 931–952. <https://doi.org/10.1007/s11116-010-9268-y>
94. Farber, S., & Paez, A. (2010). Spatial analysis in canada: introduction [Journal Article]. *Canadian Geographer-Geographe Canadien*, 54(1), 1–3. <https://doi.org/10.1111/j.1541-0064.2009.00298.x>
95. Scott, D. M., Newbold, K. B., Spinney, J. E. L., Mercado, R., Paez, A., & Kanaroglou, P. S. (2009). New insights into senior travel behavior: The canadian experience [Journal Article]. *Growth and Change*, 40(1), 140–168. <https://doi.org/10.1111/j.1468-2257.2008.00464.x>
96. Saberton, P. J., Paez, A., Newbold, K. B., & Heddle, N. M. (2009). Geographical variations in the correlates of blood donor turnout rates: An investigation of canadian metropolitan areas [Journal Article]. *International Journal of Health Geographics*, 8. <https://doi.org/10.1186/1476-072x-8-56>
97. Paez, A. (2009). Recent research in spatial real estate hedonic analysis [Journal Article]. *Journal of Geographical Systems*, 11(4), 311–316. <https://doi.org/10.1007/s10109-009-0103-y>
98. Paez, A. (2009). Spatial analysis of economic systems and land use change [Journal Article]. *Papers in Regional Science*, 88(2), 251–258. <https://doi.org/10.1111/j.1435-5957.2009.00246.x>
99. Montero-Lorenzo, J.-M., Larraz-Iribas, B., & Paez, A. (2009). Estimating commercial property prices: An application of cokriging with housing prices as ancillary information [Journal Article]. *Journal of Geographical Systems*, 11(4), 407–425. <https://doi.org/10.1007/s10109-009-0095-7>
100. Mercado, R., & Paez, A. (2009). Determinants of distance traveled with a focus on the elderly: A multilevel analysis in the hamilton CMA, canada [Journal Article]. *Journal of Transport Geography*, 17(1), 65–76. <https://doi.org/10.1016/j.jtrangeo.2008.04.012>
101. Maoh, H., Kanaroglou, P., Scott, D., Paez, A., & Newbold, B. (2009). IM-PACT: An integrated GIS-based model for simulating the consequences of demographic changes and population ageing on transportation [Journal Article]. *Computers Environment and Urban Systems*, 33(3), 200–210. <https://doi.org/10.1016/j.compenvurbsys.2008.10.004>

102. Kanaroglou, P. S., Maoh, H. F., Newbold, B., Scott, D. M., & Paez, A. (2009). A demographic model for small area population projections: An application to the census metropolitan area of hamilton in ontario, canada [Journal Article]. *Environment and Planning A*, 41(4), 964–979. <https://doi.org/10.1068/a40172>
103. Farber, S., Paez, A., & Volz, E. (2009). Topology and dependency tests in spatial and network autoregressive models [Journal Article]. *Geographical Analysis*, 41(2), 158–180. <https://doi.org/10.1111/j.1538-4632.2009.00751.x>
104. Farber, S., & Paez, A. (2009). My car, my friends, and me: A preliminary analysis of automobility and social activity participation [Journal Article]. *Journal of Transport Geography*, 17(3), 216–225. <https://doi.org/10.1016/j.jtrangeo.2008.07.008>
105. Paez, A., Scott, D. M., & Volz, E. (2008). A discrete-choice approach to modeling social influence on individual decision making [Journal Article]. *Environment and Planning B-Planning & Design*, 35(6), 1055–1069. <https://doi.org/10.1068/b3320t>
106. Paez, A., Scott, D. M., & Volz, E. (2008). Weight matrices for social influence analysis: An investigation of measurement errors and their effect on model identification and estimation quality [Journal Article]. *Social Networks*, 30(4), 309–317. <https://doi.org/10.1016/j.socnet.2008.05.001>
107. Paez, A., Long, F., & Farber, S. (2008). Moving window approaches for hedonic price estimation: An empirical comparison of modelling techniques [Journal Article]. *Urban Studies*, 45(8), 1565–1581. <https://doi.org/10.1177/0042098008091491>
108. Kanaroglou, P., Mercado, R., Mach, H., Paez, A., Scott, D. M., & Newbold, B. (2008). Simulation framework for analysis of elderly mobility policies [Journal Article]. *Transportation Research Record*, 2078, 62–71. <https://doi.org/10.3141/2078-09>
109. Dugundji, E., Paez, A., & Arentze, T. (2008). Social networks, choices, mobility, and travel introduction [Journal Article]. *Environment and Planning B-Planning & Design*, 35(6), 956–960. <https://doi.org/10.1068/b3506ged>
110. Paez, A., Scott, D., Potoglou, D., Kanaroglou, P., & Newbold, K. B. (2007). Elderly mobility: Demographic and spatial analysis of trip making in the hamilton CMA, canada [Journal Article]. *Urban Studies*, 44(1), 123–146. <https://doi.org/10.1080/00420980601023885>
111. Paez, A., & Scott, D. M. (2007). Social influence on travel behavior: A simulation example of the decision to telecommute [Journal Article]. *Environment and Planning A-Economy and Space*, 39(3), 647–665. <https://doi.org/10.1068/a37424>
112. Paez, A. (2007). Spatial perspectives on urban systems: Developments and directions [Journal Article]. *Journal of Geographical Systems*, 9(1), 1–6. <https://doi.org/10.1007/s10109-007-0041-5>
113. Mercado, R., Páez, A., Scott, D. M., Newbold, K. B., & Kanaroglou, P. (2007). Transport policy in aging societies: An international comparison and implications for canada. *The Open Transportation Journal*, 1(1). <https://doi.org/10.2174/1874447800701010001>
114. Farber, S., & Paez, A. (2007). A systematic investigation of cross-validation in GWR model estimation: Empirical analysis and monte carlo simulations [Journal Article]. *Journal of Geographical Systems*, 9(4), 371–396. <https://doi.org/10.1007/s10109-007-0051-3>
115. Vichiensan, V., Paez, A., Kawai, K., & Miyamoto, K. (2006). Nonstationary spatial interpolation method for urban model development [Conference Proceedings]. *85th Annual Meeting of the Transportation-Research-Board*, 103–111.
116. Paez, A. (2006). Exploring contextual variations in land use and transport analysis using a probit model with geographical weights [Journal Article]. *Journal of Transport Geography*, 14(3), 167–176. <https://doi.org/10.1016/j.jtrangeo.2005.11.002>

117. Paez, A. (2005). Local analysis of spatial relationships: A comparison of GWR and the expansion method [Book Section]. In O. Gervasi, M. L. Gavrilova, V. Kumar, A. Lagana, H. P. Lee, Y. Mun, D. Taniar, & C. J. K. Tan (Eds.), *Computational science and its applications - iccsa 2005, pt 3* (Vol. 3482, pp. 162–172). ://WOS:000229696900018
118. Newbold, K. B., Scott, D. M., Spinney, J. E., Kanaroglou, P., & Páez, A. (2005). Travel behavior within canada's older population: A cohort analysis. *Journal of Transport Geography*, 13(4), 340–351. <https://doi.org/10.1016/j.jtrangeo.2004.07.007>
119. Mercado, R., & Paez, A. (2005). Context and prospects for integrated urban models for metropolitan policy analysis and planning in developing countries: The case of metro manila. *Journal of the Eastern Asia Society for Transportation Studies*, 6, 3744–3759.
120. Páez, A., & Scott, D. M. (2004). Spatial statistics for urban analysis: A review of techniques with examples. *GeoJournal*, 61(1), 53–67. <https://doi.org/10.1007/s10708-005-0877-5>
121. Paez, A. (2004). Anisotropic variance functions in geographically weighted regression models [Journal Article]. *Geographical Analysis*, 36(4), 299–314. <https://doi.org/10.1111/j.1538-4632.2004.tb01138.x>
122. Paez, A. (2004). Network accessibility and the spatial distribution of economic activity in eastern asia [Journal Article]. *Urban Studies*, 41(11), 2211–2230. <https://doi.org/10.1080/0042098042000268429>
123. Miyamoto, K., Vichiensan, V., Shimomura, N., & Paez, A. (2004). Discrete choice model with structuralized spatial effects for location analysis. *Transportation Research Record*, 183–190. <https://doi.org/10.3141/1898-22>
124. Páez, A., Black, J., & Suthanaya, P. (2003). Spatial and temporal analysis of zonal journey-to-work preference functions in sydney, 1961–1996. *Journal of the Eastern Asia Society for Transportation Studies*, 5.
125. Paez, A., Uchida, T., & Miyamoto, K. (2002). A general framework for estimation and inference of geographically weighted regression models: 1. Location-specific kernel bandwidths and a test for locational heterogeneity [Journal Article]. *Environment and Planning A*, 34(4), 733–754. <https://doi.org/10.1068/a34110>
126. Paez, A., Uchida, T., & Miyamoto, K. (2002). A general framework for estimation and inference of geographically weighted regression models: 2. Spatial association and model specification tests [Journal Article]. *Environment and Planning a-Economy and Space*, 34(5), 883–904. <https://doi.org/10.1068/a34133>
127. Black, J. A., Paez, A., & Suthanaya, P. A. (2002). Sustainable urban transportation: Performance indicators and some analytical approaches [Journal Article]. *Journal of Urban Planning and Development*, 128(4), 184–209. [https://doi.org/10.1061/\(asce\)0733-9488\(2002\)128:4\(184\)](https://doi.org/10.1061/(asce)0733-9488(2002)128:4(184))
128. Paez, A., Uchida, T., & Miyamoto, K. (2001). Spatial association and heterogeneity issues in land price models [Journal Article]. *Urban Studies*, 38(9), 1493–1508. <https://doi.org/10.1080/00420980120076768>
129. Páez, A., & Suzuki, J. (2001). Transportation impacts on land use change: An assessment considering neighborhood effects. *Journal of the Eastern Asia Society for Transportation Studies*, 4(6), 47–59.
130. Páez, A., Miyamoto, K., Yamada, E., & Kitazume, K. (2001). Transportation network and accessibility analysis in eastern asia based on a geographical information system. *Journal of the Eastern Asia Society for Transportation Studies*, 4(6), 221–225.
131. Paez, A., Uchida, T., & Miyamoto, K. (2000). Spatial economic externalities and coordinated land use-transportation planning [Conference Proceedings]. *9th International Conference of the Cooperation for the Continuing Development of Urban and Suburban Transportation*, 649–655.
132. Páez, A., Uchida, T., & Miyamoto, K. (1999). A spatial analysis of external economies and its association with transportation infrastructure: The case of sendai city. *Journal of the Eastern Asia Society for Transportation Studies*, 3(4), 149–164.

133. Páez, A., Uchida, T., & Miyamoto, K. (1998). Urbanization and the urban heat island effect from a spatial descriptive approach. *Papers on City Planning*, 33, 67–72.
134. Miyamoto, K., Sugiki, N., Uchida, T., & Páez, A. (1997). A GIS based land-use model dealing with building types by small unit of land in a metropolitan area. *Journal of the Eastern Asia Society for Transportation Studies*, 2, 1943–1959.

Conference Presentations and Proceedings

Accepted for Publication in Final Form

1. Desjardins, E., Higgins, C. D., & Paez, A. (2022). Examining spatial equity of bike share: A balanced floating catchment area approach [Journal Article]. *Transportation Research Part D: Transport and Environment*.
2. Whalen, K., & Paez, A. (2022). Reliability of the RLF and students' demonstrated higher-order thinking skills as inferred from reflections in geography and sustainability courses [Journal Article]. *Journal of Geography*.
3. Scott, D. M., Brown, M. J., & Páez, A. (2022). A spatial modeling approach to estimating bike share traffic volume from GPS data [Journal Article]. *Sustainable Cities and Society*, 76. <https://doi.org/10.1016/j.scs.2021.103401>
4. Paez, A. (2021). Reproducibility of research during COVID-19: Examining the case of population density and the basic reproductive rate from the perspective of spatial analysis [Journal Article]. *Geographical Analysis*. <https://doi.org/10.1111/gean.12307>
5. Desjardins, E., Higgins, C. D., Scott, D. M., Apatu, E., & Paez, A. (2021). Correlates of bicycling trip flows in hamilton, ontario: Fastest, quietest, or balanced routes? [Journal Article]. *Transportation*. <https://doi.org/10.1007/s11116-021-10197-1>

Submitted for Publication

1. Soukhov, A., Mohamed, M., Higgins, C. D., & Antonio, P. (2022). School closures and the equity implications of active travel to school [Journal Article]. *Transportation Research Part D: Transport and Environment*.
2. Sears, S., Mohamed, M., Ferguson, M., Razavi, S., & Antonio, P. (2022). Perceived barriers to the movement of goods in canada: A grounded theory investigation [Journal Article]. *Transportation Research Part A: Policy and Practice*.
3. Rey Blanco, D., Arbués, P., López, F. A., & Páez, A. (2022). Using machine learning to identify spatial market segments: A reproducible study of major spanish markets [Journal Article]. *Environment and Planning B: Urban Analytics and City Science*.
4. Merral, J., Higgins, C. D., & Paez, A. (2022). What's a school worth to a neighborhood? A spatial hedonic analysis of property prices in the context of accommodation reviews in ontario [Journal Article]. *Cities*.
5. Jamal, S., & Antonio, P. (2022). Well-being implications of immobility during COVID-19: Evidence from a student sample in bangladesh using the satisfaction with life scale [Journal Article]. *Transportation*.
6. Higgins, C. D., Demitry, M., Páez, A., & Miller, E. J. (2022). Using machine learning to identify spatial market segments: A reproducible study of major spanish markets [Journal Article]. *Environment and Planning B: Urban Analytics and City Science*.
7. Desjardins, E., Lam, J., Darcy, R., Damian, C., Waygood, O., & Páez, A. (2022). The framing of active school travel in ontario, canada as a health and built environment issue [Journal Article]. *Social Science & Medicine*.

Invited Talks, Seminars, Workshops, Courses, and Panels

December 10-2021	Instituto de Pesquisa Econômica Aplicada Availability: A Singly Constrained Measure of Accessibility Brasilia, Brazil • Invited Talk, Speaker	Introducing
November 29-2021	Doctorado en Economía Interuniversitario Cartagena, Spain • VI Jornadas de Doctorado y Seminarios Novel, Keynote Speaker	Investigación Repro
October 28-2021	MacPherson Institute and McMaster University Library Living Textbook for Teaching Spatial Statistics Hamilton, Canada • Lightning Round: Teaching in the Open at McMaster, Panelist	Creat
May 25-2021	Polytechnique Montreal Examining spatial equity of bike share: A ba floating catchment area approach Montreal, Canada • Colloque Annuel de la Chaire Mobilité, Presenter	
March 17- 2021	Gran Sasso Science Institute L'Aquila, Italy • Invited Seminar, Presenter	What's a school worth to a neighb
October 1-2020	ITE Transportation Research Seminar (McMaster Chapter) portation research seminar Hamilton, Canada • Invited Talk, Speaker	
June 16-2020	Polytechnique Montreal Using CycleStreets and spatial interaction ana infer cycling routes Montreal, Canada • Colloque Annuel de la Chaire Mobilité, Presenter	
July 9-2019	TRANSyT, Universidad Politécnica de Madrid analysis Madrid, Spain • Invited Talk, Speaker	Big data and beh
July 8-2019	Department of Applied Economics, Universidad Autónoma Madrid Como integrar aprendizaje de máquinas y econometría espacial análisis de precios hedónicos: un ejemplo de segmentación espacial de me en tres ciudades españolas Madrid, Spain • Invited Talk, Speaker	
July 1-2019	Department of Civil, Environmental, and Geomatics Engine ETH Zurich Zurich, Switzerland • Invited Talk, Speaker	Accessibility in Infrastructure Poor F
June 6-2019	Universidad Politécnica de Cartagena Cartagena, Spain • XXIII Applied Economics Meeting, Keynote Speaker	Big data and behavioral a
May 21-2019	Polytechnique Montreal Montreal, Canada • Colloque Annuel de la Chaire Mobilité, Presenter	Cost Functions for Accessibility by V
December 18-2018	McMaster Library, RHPCS, MacDATA, and the Tier 3 Research Management IT Committee Hamilton, Canada • McMaster Research Data Forum, Panelist	McMaster Research Data
June 5-2018	Department of Geography, Universidad Complutense de Ma cesibilidad a los servicios de salud Madrid, Spain • Invited Talk, Speaker	
May 23-2018	Polytechnique Montreal Transportation Information Montreal, Canada • Colloque Annuel de la Chaire Mobilité, Presenter	Developing Dashboards to Comm
March 12 to 14-2018	Gran Sasso Science Institute L'Aquila, Italy • Short Course- Instructor	Methodology: spatial statistics

