Antonio **Páez**

PROFESSOR

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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.~~
- I was recognized with the Edward L. Ullman of the Association of American Geogeraphers for lifelong commitment and contributions to the field of transportation geography.

Education

Tohoku Unversity	*Sendai, Japan*
PhD	*1997-2000*

- Thesis Title: Applied Statistical Analysis of Geographically Detailed Data with Emphasis on Spatial Effects

Tohoku Unversity	*Sendai, Japan*
M.Sc.	*1995-1997*

- Thesis Title: Evaluation of Environmental Changes Caused by Urbanization

Instituto Tecnológico y de Estudios Superiores de Monterrey	*Monterrey, Mexico*
B.Eng.	*1989-1993*

Current Status at McMaster

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

Employment History

ACADEMIC

School of Earth, Society and Environment, McMaster University	*Hamilton, Canada*
PROFESSOR	*July 2014-present*
School of Geography and Earth Sciences, McMaster University	*Hamilton, Canada*
ASSOCIATE PROFESSOR	*July 2007-June 2014*
School of Geography and Geology, McMaster University	*Hamilton, Canada*
ASSISTANT PROFESSOR	*July 2002-June 2007*
Center for Northeast Asian Studies, Tohoku University	*Sendai, Japan*
RESEARCH FELLOW-LECTURER	*October 2000-March 2002*
Dept. of Civil Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey	*Monterrey, Mexico*
INSTRUCTOR-TOPOGRAPHICAL SURVEY LABORATORY	*January 1993-December 1993*

Editorial Activities

Editor-in-Chief	*January 2008-present*
JOURNAL OF GEOGRAPHICAL SYSTEMS	

Associate Editor	*November 2016-August 2019*
Papers in Regional Science	

Editorial Board Member	*January 2012-December 2017*
Computers, Environment, and Urban Systems	
Editorial Board Member	*April 2014-March 2017*
Decision Support Systems	
Editorial Board Member	*January 2014-present*
Economic and Business Letters	
Editorial Board Member	*January 2010-December 2017*
Environment and Planning A	
Editorial Board Member	*2018-present*
Geographical Analysis	
Editorial Board Member	*2015-present*
Ingeniería de Transporte	
Editorial Board Member	*January 2019-present*
International Journal of Geographic Information Science	
Editorial Board Member	*2018-present*
Journal of Transport Geography	
Editorial Board Member	*January, 2008-May, 2012*
Open Environmental Journal	
Editorial Board Member	*January, 2008-May, 2012*
Open Geography Journal	
Editorial Board Member	*January, 2008-May, 2012*
Open Urban Studies Journal	
Editorial Board Member	*January 2015-December 2020*
Papers in Regional Science	
Editorial Board Member	*January 2012-present*
Transportation	

Scholarly and Professional Activities

Journal Referee

0.0.1 Number of Total Lifetime Reviews

333

0.0.2 Number of Reviews in 2024

7

Areas of Interest

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

Research Impact

Fig. 1 is a summary of research impact according to Google Scholar.

Lifetime Publications

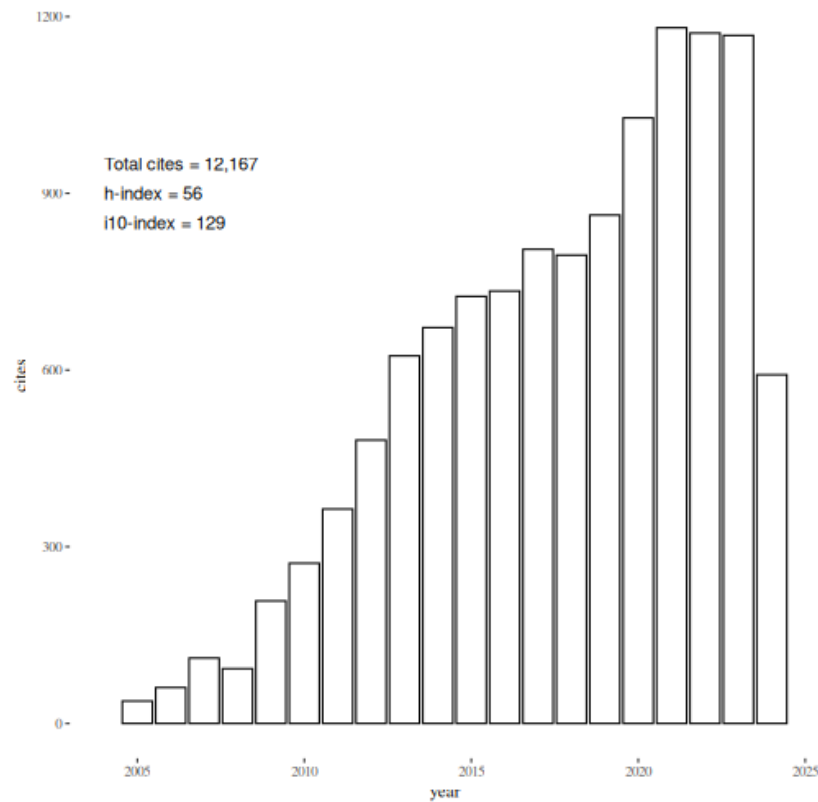Total cites = 12,167
h-index = 56
i10-index = 129

Figure 1: Citations per year according to Google Scholar

0.0.3 Books

1. Páez, A., & Boisjoly, G. (2023). *Discrete choice analysis with R*. Springer Cham. `https://doi.org/10.1007/978-3-031-20719-8`

0.0.4 Edited Books

1. Franklin, R. S., Leeuwen, E. S. van, & Páez, A. (2018). *Population loss: The role of transportation and other issues*. Academic Press.
2. Kanaroglou, P., Delmelle, E., & Páez, A. (2015). *Spatial analysis in health geography*. Ashgate Publishing, Ltd.
3. Páez, A., Gallo, J., Buliung, R. N., & Dall'erba, S. (2009). *Progress in spatial analysis: Methods and applications*. Springer Science & Business Media.

0.0.5 Journal Articles (35 most recent)

1. Rey-Blanco, D., Arbues, P., Lopez, F., & Paez, A. (2024). A geo-referenced micro-data set of real estate listings for Spain's three largest cities. *Environment and Planning B: Urban Analytics and City Science*. `https://doi.org/10.1177/23998083241242844`
2. Desjardins, E., Lam, J., Reynard, D., Collins, D., Waygood, E. O. D., & Páez, A. (2024). Framing active school travel in Ontario, or how spinach is good for you. *Transportation Research Part A: Policy and Practice*, *180*, 103953. `https://doi.org/10.1016/j.tra.2024.103953`
3. Soukhov, A., Tarriño-Ortiz, J., Soria-Lara, J. A., & Páez, A. (2024). Multimodal spatial availability: A singly-constrained measure of accessibility considering multiple modes. *PLOS ONE*, *19*(2), e0299077. `https://doi.org/10.1371/journal.pone.0299077`
4. Rey-Blanco, D., Arbués, P., López, F. A., & Páez, A. (2024). Using machine learning to identify spatial market segments. A reproducible study of major Spanish markets. *Environment and Planning B: Urban Analytics and City Science*, *51*(1), 89–108. `https://doi.org/10.1177/23998083231166952`
5. Merrall, J., Higgins, C. D., & Páez, A. (2024). What's a school worth to a neighborhood? A spatial hedonic analysis of property prices in the context of accommodation reviews in ontario. *Geographical Analysis*, *56*(2), 217–243. https://doi.org/https://doi.org/10.1111/gean.12377

6.   Jamal, S., & Páez, A. (2024). Exploring modal shift in non-active sustainable transport modes during the first wave of COVID-19 in bangladesh. *Multimodal Transportation*, *3*(2), 100130. https://doi.org/https://doi.org/10.1016/j.multra.2024.100130

7.   Jamal, S., & Páez, A. (2024). Socio-economic and demographic differences in the impact of COVID-19 on personal travel in the Global South. *Transport Reviews*, *44*(2), 272–298. https://doi.org/10.1080/01441647.2023.2295377

8.   Soukhov, A., Páez, A., Higgins, C. D., & Mohamed, M. (2023). Introducing spatial availability, a singly-constrained measure of competitive accessibility [Journal Article]. *PLOS ONE*, *18*(1), e0278468. https://doi.org/10.1371/journal.pone.0278468

9.   Soukhov, A., & Páez, A. (2023). TTS2016R: A data set to study population and employment patterns from the 2016 Transportation Tomorrow Survey in the Greater Golden Horseshoe Area, Ontario, Canada [Journal Article]. *Environment and Planning B: Urban Analytics and City Science*, *50*(2), 556–563. https://doi.org/10.1177/23998083221146781

10. Santos, B. D. dos dos, Ribeiro, R. M., Páez, A., Kampel, M., Pinho, C. M. D. de, & Amaral, S. (2023). State-of-the-art and framework for identifying urban patterns by remote sensing data [Journal Article]. *Revista Brasileira de Cartografia*, *75*. https://doi.org/10.14393/rbcv75n0a-67966

11. Santos, B. D. dos, Pinho, C. M. D. de, Páez, A., & Amaral, S. (2023). Identifying urban and socio-environmental patterns of Brazilian Amazonian cities by remote sensing and machine learning [Journal Article]. *Remote Sensing*, *15*(12), 3102. https://www.mdpi.com/2072-4292/15/12/3102

12. Cheng, L., Wang, J., & Páez, A. (2023). Mobility of older adults and the living environment: introduction [Journal Article]. *Journal of Transport Geography*, *106*, 103525. https://doi.org/https://doi.org/10.1016/j.jtrangeo.2022.103525

13. Brum-Bastos, V., & Páez, A. (2023). Hägerstrand meets big data: Time-geography in the age of mobility analytics [Journal Article]. *Journal of Geographical Systems*, *25*(3), 327–336. https://doi.org/10.1007/s10109-023-00421-0

14. Whalen, K., & Páez, A. (2022). Reliability of the reflective learning framework for assessing higher-order thinking in geography and sustainability courses [Journal Article]. *Journal of Geography*, *121*(1), 18–33. https://doi.org/10.1080/00221341.2021.2003848

15. Sears, S., Moataz, M., Ferguson, M., Razavi, S., & Páez, A. (2022). Perceived barriers to the movement of goods in Canada: A grounded theory investigation [Journal Article]. *Transportation Research Part A: Policy and Practice*, *162*, 27–45. https://doi.org/10.1016/j.tra.2022.05.011

16. Páez, A. (2022). 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*, *54*(4), 860–880. https://doi.org/10.1111/gean.12307

17. Desjardins, E., Tavakoli, Z., Páez, A., & Waygood, E. O. (2022). Children's access to non-school destinations by active or independent travel: A scoping review. In *International Journal of Environmental Research and Public Health* (Electronic Article No. 19; Vol. 19). https://doi.org/10.3390/ijerph191912345

18. Desjardins, E., Higgins, C. D., Scott, D. M., Apatu, E., & Páez, A. (2022). Correlates of bicycling trip flows in hamilton, Ontario: Fastest, quietest, or balanced routes? [Journal Article]. *Transportation*, *49*(3), 867–895. https://doi.org/10.1007/s11116-021-10197-1

19. 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

20. Demitiry, M., Higgins, C. D., Páez, A., & Miller, E. J. (2022). Accessibility to primary care physicians: Comparing floating catchments with a utility-based approach. *Journal of Transport Geography*, *101*, 103356. https://doi.org/10.1016/j.jtrangeo.2022.103356

21. Brown, M. J., Scott, D. M., & Páez, A. (2022). A spatial modeling approach to estimating bike share traffic volume from GPS data [Journal Article]. *Sustainable Cities and Society*, *76*, 103401. https://doi.org/10.1016/j.scs.2021.103401

22. Whalen, K., & Páez, 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

23. Páez, 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

24. 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

25. Páez, 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

26. Pereira, R. H. M., Braga, C. K. V., Servo, L. M., Serra, B., Amaral, P., Gouveia, N., & Páez, 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

27. Lira, B. M., & Páez, 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

28. Higgins, C. D., Páez, 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

29. Eldeeb, G., Mohamed, M., & Páez, 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

30. Doulabi, S., Hassan, H. M., Ferguson, M. R., Razavi, S., & Páez, 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

31. Desjardins, E., Higgins, C. D., Scott, D. M., Apatu, E., & Páez, 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

32. Desjardins, E., Apatu, E., Razavi, S. D., Higgins, C. D., Scott, D. M., & Páez, 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

33. de Arruda, R. G., de Menezes, T. A., dos Santos, J. M. A., Páez, A., & Lopes, F. (2021). The effect of politician denialist approach on COVID-19 cases and deaths [Journal Article]. *EconomiA*, *22*(3), 214–224. https://doi.org/10.1016/j.econ.2021.11.007

34. Victoriano, R., Páez, 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

35. Sarlas, G., Páez, 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

Invited Talks, Seminars, Workshops, Courses, and Panels (12 most recent)

Principles of spatial interaction
Hamilton, Canada

CIV TECH 3TP3, MCMASTER UNIVERSITY
June 24-2024

- Invited Talk, Speaker

Just transportation
São Paulo, Brazil

UNIVERSIDADE DE SÃO PAULO
June 19-2024

- Invited Talk, Speaker

Ciência Aberta para Todos
São Paulo, Brazil

UNIVERSIDADE FEDERAL DO ABC
June 18-2024

- Invited Talk, Speaker

An introduction to exploratory data analysis in R
São Paulo, Brazil

UNIVERSIDADE FEDERAL DO ABC
June 10-15-2024

- Invited workshop, Instructor

Hägerstrand meets big data: time-geography in the age of mobility analytics

São Paulo, Brazil

UNIVERSIDADE FEDERAL DO ABC

June 6-2024

- Invited Talk, Speaker

Just transportation

Montréal, Canada

POLYTECHIQUE MONTRÉAL

June 3-2024

- Colloque Annuel de la Chaire Mobilité, Presenter

Hägerstrand meets big data: time-geography in the age of mobility analytics

Perth, Australia

PLANNING AND TRANSPORT RESEARCH CENTRE, THE UNIVERSITY OF WESTERN AUSTRALIA

March 21-2024

- John Taplin Memorial Lecture, Keynote Speaker

Collaborative Reproducible Research using R and GitHub Illustrated with a Spatial Analysis Project

Perth, Australia

BUSINESS DATA ANALYTICS, THE UNIVERSITY OF WESTERN AUSTRALIA

March 20 and 22-2024

- Workshop, Instructor

Introducing spatial availability, a singly-constrained accessibility measure

Karlsruhe, Germany

KARLSRUHE INSTITUTE OF TECHNOLOGY-ITAS

February 20-2024

- Workshop, Instructor

Hägerstrand meets big data: time-geography in the age of mobility analytics

São José dos Campos, Brazil

INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

December 4-2023

- GEOINFO 2023, Keynote Speaker

Open Science for All

Hamilton, Canada

MCMASTER REPRODUCIBILITEA

October 17-2023

- Invited Talk, Speaker

Introducing spatial availability, a singly-constrained accessibility measure

Montréal, Canada

POLYTECHIQUE MONTRÉAL

October 7-2023

- Workshop, Instructor