

# Antonio Páez

## PROFESSOR

School of Earth, Environment and Society  
McMaster University  
1280 Main St West, Hamilton, Ontario, Canada L8S 1S4  
phone: +1 905 525 9140

✉ paezha@mcmaster.ca | 🏠 experts.mcmaster.ca/display/paezha | ☎ 0000-0001-6912-9919 | 📞 2897251 | 📧 paezha | 🌐 paezha

## 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.
- In 2010 a research team I led was recognized with the **Meredith F. Burrill Award** of the Association of American Geographers for exceptional work at the intersection basic research in geography and policy.
- In 2024 I was recognized with the **Edward L. Ullman Award** of the Association of American Geographers for lifelong commitment and contributions to the field of transportation geography.

## Education

### Tohoku University

PHD Sendai, Japan

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

1997-2000

### Tohoku University

M.Sc. Sendai, Japan

- Thesis Title: Evaluation of Environmental Changes Caused by Urbanization

1995-1997

### Instituto Tecnológico y de Estudios Superiores de Monterrey

B.ENG. Monterrey, Mexico

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

PROFESSOR Hamilton, Canada

July 2014-present

#### School of Geography and Earth Sciences, McMaster University

ASSOCIATE PROFESSOR Hamilton, Canada

July 2007-June 2014

#### School of Geography and Geology, McMaster University

ASSISTANT PROFESSOR Hamilton, Canada

July 2002-June 2007

#### Center for Northeast Asian Studies, Tohoku University

RESEARCH FELLOW-LECTURER Sendai, Japan

October 2000-March 2002

#### Dept. of Civil Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey

INSTRUCTOR-TOPOGRAPHICAL SURVEY LABORATORY Monterrey, Mexico

January 1993-December 1993

### 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.

Consultant (2015 - present) Environics Analytics, Toronto, Canada.

# Honours

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## SCIENTIFIC AWARDS

<b>Edward L. Ullman Award for outstanding contributions to the field of transportation geography</b> ASSOCIATION OF AMERICAN GEOGRAPHERS • Antonio Páez	<i>United States</i>  2024
<b>Outstanding Achievement Award in Humanities and Social Sciences Research (1st Prize)</b> SHAANXI SYSTEM OF UNIVERSITIES • Li He, Antonio Páez, Jianmin Jiao, Ping An, Chuntian Lu, Wen Mao, and Dongping Long	<i>China</i>  2021
<b>Meredith F. Burrill Award for work of exceptional merit and quality at the intersection of basic research in geography and policy implications</b> ASSOCIATION OF AMERICAN GEOGRAPHERS • Antonio Páez, Ruben G. Mercado, Steven Farber, Catherine Morency, and Matthew Roorda	<i>United States</i>  2010
<b>Best Presentation Award</b> JAPAN SOCIETY OF CIVIL ENGINEERS • K. Kawai, K. Miyamoto, V. Vichiensan, and Antonio Páez	<i>Japan</i>  2002

## VISITING PROFESSORSHIPS

<b>Universidad Politécnica de Madrid</b> VISITING PROFESSORSHIP	<i>Spain</i>  2008
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## SCHOLARSHIPS

<b>Japanese Ministry of Science, Education and Culture (Monbusho)</b> GRADUATE SCHOLARSHIP	<i>Japan</i>  <i>October, 1997-September, 2000</i>
<b>Japanese Ministry of Science, Education and Culture (Monbusho)</b> GRADUATE SCHOLARSHIP	<i>Japan</i>  <i>April, 1995-September, 1997</i>

## TRAINEE HONOURS

<b>Elise Desjardins</b> TRANSPORTATION GEOGRAPHY SPECIALTY GROUP OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS	<i>Winner, Master's Competition</i>  2021
<b>Md Moniruzzaman</b> INTERNATIONAL TRANSPORTATION FORUM	<i>Young Researcher Award</i>  2016
<b>Md Moniruzzaman</b> CANADIAN INSTITUTES FOR HEALTH RESEARCH, INSTITUTE OF AGING	<i>Age+ Prize</i>  2014
<b>Md Moniruzzaman</b> WORLD CONFERENDE OF TRANSPORT RESEARCH SOCIETY	<i>Ph.D. Prestige Grant</i>  2013
<b>Md Moniruzzaman</b> TRANSPORTATION GEOGRAPHY SPECIALTY GROUP OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS	<i>Winner, Master's Competition</i>  2012
<b>Steven Farber</b> TRANSPORTATION GEOGRAPHY SPECIALTY GROUP OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS	<i>Honorable Mention, Ph.D. Competition</i>  2011

# Editorial Activities

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## EDITORSHIPS

<b>Editor-in-Chief</b> JOURNAL OF GEOGRAPHICAL SYSTEMS	<i>January 2008-present</i>
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**GUEST EDITORSHIPS**

**Guest Editor**

BECKY LOO, ANTONIO PÁEZ, LONG CHENG, JIAOE WANG

- Elderly's Mobility and the Living Environment

*Journal of Transport Geography*  
Virtual Special Issue  
2022

**Guest Editor**

FRANK GOETZKE, REGINE GERIKE, ANTONIO PÁEZ, ELEENNA DUGUNDJI

- Social interactions in transportation: analyzing groups and spatial networks

*Transportation* 42 (5)  
2015

**Guest Editor**

DARREN M. SCOTT, ELEENNA DUGUNDJI, ANTONIO PÁEZ

- The Social Dimension of Travel, Activity, and Location Choice Behavior

*Journal of Transport Geography* 31  
2013

**Guest Editor**

ELEENNA DUGUNDJI, DARREN M. SCOTT, JUAN A. CARRASCO, AND ANTONIO PÁEZ

- Urban mobility and social-spatial interaction

*Environment and Planning A* 44 (5)  
2012

**Guest Editor**

ELEENNA R. DUGUNDJI, ANTONIO PÁEZ, THEO ARENTZE, JOAN L. WALKER

- Transportation and social interactions

*Transportation Research Part A -  
Policy and Practice* 45 (4)  
2011

**Guest Editor**

TIM SCHWANEN AND ANTONIO PÁEZ

- The Mobility of Older People

*Journal of Transport Geography* 18  
(5)  
2010

**Guest Editor**

STEVEN FARBER AND ANTONIO PÁEZ

- Spatial Analysis in Canada

*The Canadian Geographer* 54 (1)  
2010

**Guest Editor**

ANTONIO PÁEZ

- Spatial analysis of economic systems and land use change

*Papers in Regional Science* 88 (2)  
2009

**Guest Editor**

ELEENNA DUGUNDJI, ANTONIO PÁEZ, THEO ARENTZE

- Social networks, choices, mobility, and travel

*Environment and Planning B* 35 (6)  
2008

**Guest Editor**

ANTONIO PÁEZ

- Spatial Analysis of Urban Systems

*Journal of Geographical Systems* 9  
(1)  
2007

**EDITORIAL BOARDS**

**Editorial Board Member**

COMPUTERS, ENVIRONMENT, AND URBAN SYSTEMS

January 2012-December 2017

**Editorial Board Member**

DECISION SUPPORT SYSTEMS

April 2014-March 2017

**Editorial Board Member**

ECONOMIC AND BUSINESS LETTERS

January 2014-present

**Editorial Board Member**

ENVIRONMENT AND PLANNING A

January 2010-December 2017

**Editorial Board Member**

GEOGRAPHICAL ANALYSIS

2018-present

**Editorial Board Member**

INGENIERÍA DE TRANSPORTE

2015-present

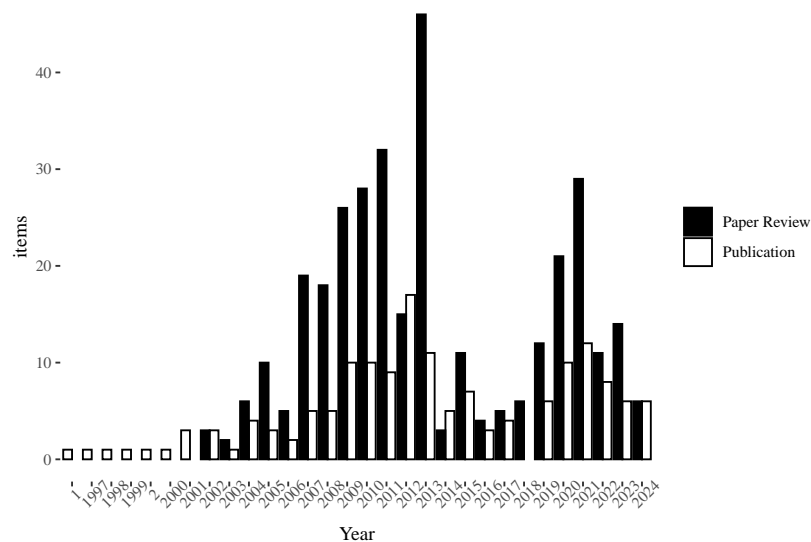


Figure 1: Reviews-to-publications by year

### Editorial Board Member

INTERNATIONAL JOURNAL OF GEOGRAPHIC INFORMATION SCIENCE

January 2019-present

### Editorial Board Member

JOURNAL OF TRANSPORT GEOGRAPHY

2018-present

### Editorial Board Member

OPEN ENVIRONMENTAL JOURNAL

January, 2008-May, 2012

### Editorial Board Member

OPEN GEOGRAPHY JOURNAL

January, 2008-May, 2012

### Editorial Board Member

OPEN URBAN STUDIES JOURNAL

January, 2008-May, 2012

### Editorial Board Member

PAPERS IN REGIONAL SCIENCE

January 2015-December 2020

### Editorial Board Member

TRANSPORTATION

January 2012-present

## Scholarly and Professional Activities

JOURNAL REFEREE

### 0.0.1 Number of Total Lifetime Reviews

332

### 0.0.2 Number of Reviews in 2024

6

### 0.0.3 Reviews-to-Publications per Year

Fig. 1 is a summary of journal reviews and publications per year. This is an indicator of my contributions to peer-reviewing relative to the demands my submissions put on peer-reviewers.

## Grant Reviews

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<b>Executive Agency for Higher Education, Research, Development and Innovation Funding (Romania)</b>	2024
EXTERNAL REVIEWER	Number of reviews: 5
<b>European Research Council (European Union)</b>	2022
PANEL MEMBER	Number of reviews: 9
<b>Swiss National Science Foundation (Switzerland)</b>	2015
EXTERNAL REVIEWER	Number of reviews: 1
<b>US National Science Foundation (USA)</b>	2013
EXTERNAL REVIEWER	Number of reviews: 1
<b>Fonds Wetenschappelijk Onderzoek - Vlaanderen (Canada)</b>	2012
EXTERNAL REVIEWER	Number of reviews: 1
<b>University of California Davis Sustainable Transportation Center (USA)</b>	2012
EXTERNAL REVIEWER	Number of reviews: 1
<b>US National Science Foundation (USA)</b>	2012
EXTERNAL REVIEWER	Number of reviews: 1
<b>Canada Research Chair Programme (Canada)</b>	2011
EXTERNAL REVIEWER	Number of reviews: 1
<b>Fonds de recherche du Quebec Nature et technologies (Canada)</b>	2011
EXTERNAL REVIEWER	Number of reviews: 1
<b>Natural Science and Engineering Research Council (Canada)</b>	2011
EXTERNAL REVIEWER	Number of reviews: 1
<b>Swiss National Science Foundation (Switzerland)</b>	2011
EXTERNAL REVIEWER	Number of reviews: 1
<b>University of California Davis Sustainable Transportation Center (USA)</b>	2011
EXTERNAL REVIEWER	Number of reviews: 1
<b>US National Science Foundation (USA)</b>	2011
EXTERNAL REVIEWER	Number of reviews: 1
<b>Hong Kong Health and Health Services Research Fund (Canada)</b>	2010
EXTERNAL REVIEWER	Number of reviews: 1
<b>US National Science Foundation (USA)</b>	2009
EXTERNAL REVIEWER	Number of reviews: 2
<b>US National Science Foundation (USA)</b>	2008
EXTERNAL REVIEWER	Number of reviews: 1
<b>US National Science Foundation (USA)</b>	2007
EXTERNAL REVIEWER	Number of reviews: 1
<b>Natural Science and Engineering Research Council (Canada)</b>	2005
EXTERNAL REVIEWER	Number of reviews: 1
<b>US National Science Foundation (USA)</b>	2005
EXTERNAL REVIEWER	Number of reviews: 1

## Areas of Interest

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

## Teaching at a Glance

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TOTAL NUMBER OF COURSES TAUGHT

Undergraduate: 55

Graduate: 18

## TOTAL NUMBER OF STUDENTS

Undergraduate: 2,307

Graduate: 85

## Teaching (Details)

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### UNDERGRADUATE TEACHING

#### **Transportation Geography**

TOTAL ENROLMENT: 80 STUDENTS

*Times offered: 2*

ENVSOCY 3LT3

#### **Applied Spatial Statistics**

TOTAL ENROLMENT: 113 STUDENTS

*Times offered: 3*

ENVSOCY 4GA3

#### **Transport Policy**

TOTAL ENROLMENT: 46 STUDENTS

*Times offered: 3*

ENVSOCY 4LP3

#### **Locational Analysis**

TOTAL ENROLMENT: 492 STUDENTS

*Times offered: 6*

GEOG 2HA3

#### **Transportation and Economic Activity**

TOTAL ENROLMENT: 415 STUDENTS

*Times offered: 4*

GEOG 2LI3

#### **Transportation Geography**

TOTAL ENROLMENT: 284 STUDENTS

*Times offered: 8*

GEOG 3LT3

#### **Analysis of Transportation Systems**

TOTAL ENROLMENT: 280 STUDENTS

*Times offered: 6*

GEOG 4D03

#### **Applied Spatial Statistics**

TOTAL ENROLMENT: 186 STUDENTS

*Times offered: 6*

GEOG 4GA3

#### **Special Topics in GIS: Geodemographic Analysis**

TOTAL ENROLMENT: 20 STUDENTS

*Times offered: 1*

GEOG 4GT3

#### **Transport Policy**

TOTAL ENROLMENT: 118 STUDENTS

*Times offered: 7*

GEOG 4LP3

#### **Analysis of Transportation Systems**

TOTAL ENROLMENT: 166 STUDENTS

*Times offered: 4*

GEOG 4LT3

#### **Advanced Topics in Spatial Analysis**

TOTAL ENROLMENT: 107 STUDENTS

*Times offered: 5*

GEOG 4S03

### GRADUATE TEACHING

#### **Reproducible Research Workflow**

TOTAL ENROLMENT: 23 STUDENTS

*Times offered: 3*

GEO \*712

#### **Transport Policy and Elderly Mobility**

TOTAL ENROLMENT: 1 STUDENTS

*Times offered: 1*

GEO \*715

#### **Discrete Choice and Policy Analysis**

TOTAL ENROLMENT: 54 STUDENTS

*Times offered: 10*

GEO \*738

#### **Transport Policy**

TOTAL ENROLMENT: 7 STUDENTS

*Times offered: 4*

GEOG 6LP3

### DIPLOMA-CERTIFICATE TEACHING

#### **Advanced Topics in Spatial Analysis**

TOTAL ENROLMENT: 29 STUDENTS

*Times offered: 3*

510-654

#### **Major Project**

TOTAL ENROLMENT: 18 STUDENTS

*Times offered: 3*

510-655

#### **Applied Project**

TOTAL ENROLMENT: 2 STUDENTS

*Times offered: 1*

510-657

# Training of Highly Qualified Personnel

## SUPERVISION AT A GLANCE

Level	Program	Sole Supervisor	Co-supervisor	Withdrawn from Program
Doctoral	Geography	8	-	3
Doctoral	Civil Engineering	-	2	-
Doctoral	Economy	-	1	-
Master	Geography	10	5	1
Master	Public Health	1	1	-
Master	Civil Engineering	-	8	-
Master	Economy	-	4	-
Undergraduate	Civil Engineering	2	-	-
Undergraduate	Engineering and Society	9	1	-
Undergraduate	Geography	13	1	-
Undergraduate	Life Sciences	1	-	-
Undergraduate	Physics	1	-	-

## UNDERGRADUATE SUPERVISION

**Zibby Petch (McMaster University, Canada)**

2010  
Civil Engineering

**Karolina Krol (McMaster University, Canada)**

2009  
Civil Engineering

**Josh Arbess (McMaster University, Canada)**

2021  
Engineering and Society

**Josh Arbess (McMaster University, Canada)**

CO-SUPERVISED WITH SANATHAN KASSIEDASS, SENIOR ADVISOR, INNOVATION AND NEW MOBILITY – METROLINX

2020  
Engineering and Society

**Samuel Greg Smilski (McMaster University, Canada)**

2020  
Engineering and Society

**Gabriela Tokarska (McMaster University, Canada)**

2013  
Engineering and Society

**Mike McKnight (McMaster University, Canada)**

2012  
Engineering and Society

**Alexander Eryuzlu (McMaster University, Canada)**

2009  
Engineering and Society

**Adam Howell (McMaster University, Canada)**

2008  
Engineering and Society

**Doug C. Sharpe (McMaster University, Canada)**

2006  
Engineering and Society

**Justin M. Potalivo (McMaster University, Canada)**

2005  
Engineering and Society

**Matt G. Sonnenberg (McMaster University, Canada)**

2005  
Engineering and Society

**Subaita Refaaf (McMaster University, Canada)**

2021  
Geography

**William Li (McMaster University, Canada)**

2019  
Geography

**Dylan Ward (McMaster University, Canada)**

2019  
Geography

<b>Ruikang Lin (McMaster University, Canada)</b>	2018 Geography
<b>Alexander Moriopoulous (McMaster University, Canada)</b>	2018 Geography
<b>Tyler Marr (McMaster University, Canada)</b>	2018 Geography
<b>Jill Scott (McMaster University, Canada)</b>	2017 Geography
<b>Bingjie Zhu (McMaster University, Canada)</b>	2017 Geography
<b>Emily Byford (McMaster University, Canada)</b>	2017 Geography
<b>Katelyn Penney (McMaster University, Canada)</b>	2015 Geography
<b>Katelyn Penney (McMaster University, Canada)</b>	2013 Geography
<b>Christine Fandrich (McMaster University, Canada)</b>	2012 Geography
<b>David Snell (McMaster University, Canada)</b>	2009 Geography
<b>Steve Gitao (McMaster University, Canada)</b> CO-SUPERVISED WITH PAVLOS KANAROGLOU	2005 Geography
<b>Nadhiyya Shabir (McMaster University, Canada)</b>	2021 Life Sciences
<b>Salvatore Vivona (McMaster University, Canada)</b>	2017 Physics
MASTER'S SUPERVISION	
<b>Mahdis Moghadasi (McMaster University, Canada)</b>	In Progress Geography
<b>Niloofer Nalae (McMaster University, Canada)</b>	2024 Geography
<b>Bruno Dias dos Santos (INPE, Brazil, Brazil)</b> CO-SUPERVISED WITH SILVANA AMARAL AND CAROLINA PINHO	2023 Geography
<b>John Merral (McMaster University, Canada)</b>	2021 Geography
<b>Elise Desjardins (McMaster University, Canada)</b>	2020 Public Health
<b>Sean Sears (McMaster University, Canada)</b>	2020 Geography
<b>Zoha Anjum (McMaster University, Canada)</b> CO-SUPERVISED WITH SARAH DICKSON AND CORINNE WALLACE	2019 Public Health
<b>Rodrigo Victoriano (Universidad de Concepcion, Chile)</b> CO-SUPERVISED WITH JUAN A. CARRASCO	2018 Civil Engineering
<b>Alvaro E. Toledo (Universidad de Concepcion, Chile)</b> CO-SUPERVISED WITH JUAN A. CARRASCO	2018 Civil Engineering
<b>Christine Fandrich (McMaster University, Canada)</b>	Withdrew from Program Geography
<b>Edivaldo C. Neves (Universidade Federal de Pernambuco, Brazil)</b> CO-SUPERVISED WITH TATIANE MENEZES	2013 Economy



<b>Mario Reyes (McMaster University, Canada)</b>	2013
	<i>Geography</i>
<b>Sammara C. Soares (Universidade Federal de Pernambuco, Brazil)</b>	2012
CO-SUPERVISED WITH TATIANE MENEZES	<i>Economy</i>
<b>Kristina Cimaroli (McMaster University, Canada)</b>	2012
CO-SUPERVISED WITH K. BRUCE NEWBOLD	<i>Geography</i>
<b>Jarin Esita (McMaster University, Canada)</b>	2012
	<i>Geography</i>
<b>Eduardo Barbosa (Universidade de Sao Paulo, Brazil)</b>	2011
CO-SUPERVISED WITH EDUARDO A. HADDAD	<i>Economy</i>
<b>Cristian Bustos (Universidad de Concepcion, Chile)</b>	2011
CO-SUPERVISED WITH JUAN A. CARRASCO	<i>Civil Engineering</i>
<b>Md Moniruzzaram (McMaster University, Canada)</b>	2011
	<i>Geography</i>
<b>Kate Whalen (McMaster University, Canada)</b>	2011
	<i>Geography</i>
<b>Nicolas M. Cespedes (Universidad de Concepcion, Chile)</b>	2011
CO-SUPERVISED WITH JUAN A. CARRASCO	<i>Civil Engineering</i>
<b>Adam Drackley (McMaster University, Canada)</b>	2010
CO-SUPERVISED WITH K. BRUCE NEWBOLD	<i>Geography</i>
<b>P.J. Saberton (McMaster University, Canada)</b>	2010
CO-SUPERVISED WITH K. BRUCE NEWBOLD	<i>Geography</i>
<b>Ana Maria Bonomi Barufi (Universidade de Sao Paulo, Brazil)</b>	2010
CO-SUPERVISED WITH EDUARDO A. HADDAD	<i>Economy</i>
<b>Ivy Dam (McMaster University, Canada)</b>	2009
CO-SUPERVISED WITH DARREN M. SCOTT	<i>Geography</i>
<b>Natalia Andrea Ruminot Villegas (Universidad de Concepcion, Chile)</b>	2009
CO-SUPERVISED WITH JUAN A. CARRASCO	<i>Civil Engineering</i>
<b>Felipe Antonio Sanhueza Cardenas (Universidad de Concepcion, Chile)</b>	2009
CO-SUPERVISED WITH JUAN A. CARRASCO	<i>Civil Engineering</i>
<b>Julien Bonin (McMaster University, Canada)</b>	2008
	<i>Geography</i>
<b>Fei Long (McMaster University, Canada)</b>	2006
	<i>Geography</i>
<b>Kenji Kawai (Tohoku University, Japan)</b>	2002
CO-SUPERVISED WITH KAZUAKI MIYAMOTO	<i>Civil Engineering</i>
<b>Eri Yamada (Tohoku University, Japan)</b>	2001
CO-SUPERVISED WITH KAZUAKI MIYAMOTO	<i>Civil Engineering</i>
DOCTORAL SUPERVISION	
<b>Bruno Dias dos Santos (McMaster University, Canada)</b>	<i>In Progress</i>
	<i>Geography</i>
<b>Anastasia Soukhov (McMaster University, Canada)</b>	<i>In Progress</i>
	<i>Geography</i>
<b>Elise Desjardins (McMaster University, Canada)</b>	<i>In Progress</i>
	<i>Geography</i>
<b>Fernando Romero (Universidad Politecnica de Madrid, Spain)</b>	2020
CO-SUPERVISED WITH JOSÉ MANUEL VASALLO	<i>Civil Engineering</i>
<b>Kate Whalen (McMaster University, Canada)</b>	2020
	<i>Geography</i>

<b>Tatiana Ferrari Kolodin (Universidade Federal de Minas Gerais, Brazil)</b>	2019
CO-SUPERVISED WITH PEDRO AMARAL	<i>Economy</i>
<b>Faten Almjlad (McMaster University, Canada)</b>	<i>Withdrew from Program</i>
	<i>Geography</i>
<b>Li He (McMaster University, Canada)</b>	2016
	<i>Geography</i>
<b>Md Moniruzzaram (McMaster University, Canada)</b>	2014
	<i>Geography</i>
<b>Mario Reyes (McMaster University, Canada)</b>	<i>Withdrew from Program</i>
	<i>Geography</i>
<b>Daniel Del Bianco (McMaster University, Canada)</b>	<i>Withdrew from Program</i>
	<i>Geography</i>
<b>Lucia Mejia (Universidad Politecnica de Madrid, Spain)</b>	2011
CO-SUPERVISED WITH JOSÉ MANUEL VASALLO	<i>Civil Engineering</i>
<b>Steven Farber (McMaster University, Canada)</b>	2010
	<i>Geography</i>
<b>Ruben Mercado (McMaster University, Canada)</b>	2007
	<i>Geography</i>

## Supervisory Committees (All are doctoral unless otherwise noted) \_\_\_\_\_

Ricardo Lourenco Barros (McMaster University; 2022-) Understanding vegetation dynamics with satellite observations and Explainable Artificial Intelligence (XAI)

Samira Hamidetebrani (McMaster University; 2020-) User Preferences and Intentions Regarding Shared Automated Vehicles in Canadian Metropolitan Areas

Christina Borowiec (McMaster University; 2019-) Active travel

Shaila Jamal (McMaster University; 2023) Generational differences in travel behavior

Jeremy Gabriel (McMaster University; 2023) Strata analysis

Elnaz Abotalebi (McMaster University; 2019) Consumer stated preferences survey for electric cars

Wade Genders (McMaster University; 2018) Deep Reinforcement Learning Adaptive Traffic Signal Control

Randy Bui (McMaster University; withdrew from program) Understanding Network Robustness and Critical Roadway Links in the Greater Toronto and Hamilton Area under Short-Term Disruption

Nazila Roofigari-Esfahan (McMaster University; 2016) A Framework for Spatio-Temporal Uncertainty-Aware Scheduling and Control of Linear Projects

Arash Olia (McMaster University; 2016) Modelling and Assessment of the Transportation Potential and Impacts of Connected and Automated Vehicles

Chris Higgins (McMaster University; 2015) A Value Planning Framework for Predicting and Recapturing the Value of Rapid Transit Infrastructure

Matthew Adams (McMaster University; 2015) Advancing the use of mobile monitoring data for air pollution modelling

Scott Bennett (McMaster University; 2015) Safer walking routes to school: applied and methodological geographies of child pedestrian injury

Sarah Dickin (McMaster University; September 2014) Mapping vulnerability to water-related infectious disease: an ecosystem approach

Ron Dalumpines (McMaster University; July 2014) Route choice analysis in time-geographic perspective

Kathleen Deutsch (University of California Santa Barbara; June 2013) Sense of place and travel behavior

Andrew Clarke (McMaster University; January 2013) Understanding determinants of active travel

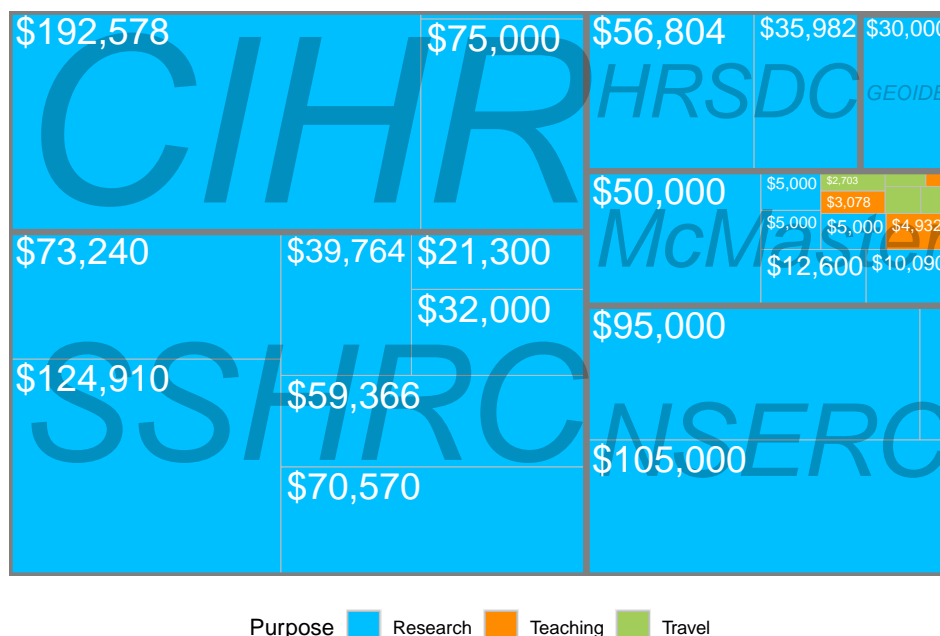


Figure 2: My share of research funds by source

Xudong Liu (McMaster University; withdrew from program in 2011) Integrating firmography in urban models

Jia Yang (McMaster University; withdrew from program in 2011) Modeling firm survival

Renilson Rodriguez da Silva (Universidade de Sao Paulo; completed: March 2011) Accessibility and development in the Amazon region (with Danilo Iglioni)

Jamie E.L. Spinney (McMaster University; completed: September 2010) Geography, Land Values, and Municipal Taxation: A Spatial Paradigm for the Estimation and Reclamation of Rent

Kelsey MacCormack (McMaster University; completed: July 2010) Delineation of subsurface gravel units beneath the Dundas Valley, Ontario

Theodora Pouliou (McMaster University; completed: September 2009) Individual and Socio-Environmental Determinants of Obesity in Canada

Hejun Kang (McMaster University; completed: August 2008) Intra-households interactions and travel behavior

Dimitris Potoglou (McMaster University; completed: April 2006) Potential demand for alternative fuelled vehicles in the City of Hamilton CMA

## Research and Other Funding

### FUNDING AT A GLANCE

The funding total of all projects that I have been part of is CAD 5,562,694. The total in research grants from various organizations, including the Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council of Canada (NSERC), and the Social Sciences and Humanities Research Council of Canada (SSHRC) is CAD 5,545,610. I have also been the recipient of several grants to improve teaching practice, to the total of CAD 8,810. And, I have received numerous travel grants, amounting to CAD 8,274.

My personal share of these funds to date amounts to CAD 1,127,448. The distribution of these funds for research, teaching, and travel, and from various organizations, can be seen in Fig. 2.

### DETAILED FUNDING

#### McMaster University, International Initiatives Micro Fund, Canada

CAD 5,000

ACTIVE SUSTAINABLE TRANSPORTATION: BARRIERS TO CYCLING AMONG UNIVERSITY STUDENTS

2024

- PI: Antonio Paez; team size: 2 researchers

<b>Arts and Research Board McMaster University, Canada</b> CONFERENCE GRANT • PI: Antonio Paez; team size: 1 researchers	CAD 1,700 2024
<b>McPherson Institute-McMaster University Libraries, Canada</b> PUBLICATION AND EVALUATION OF THE EFFECTIVENESS OF AN OPEN-SOURCE BOOK TO TEACH SPATIAL STATISTICS • PI: Antonio Paez; team size: 2 researchers	CAD 4,932 2021-2022
<b>Social Sciences and Humanities Research Council, Canada</b> MOBILIZING JUSTICE • PI: Steven Farber; team size: 10 researchers	CAD 2,498,195 2020-2025
<b>Social Sciences and Humanities Research Council, Canada</b> CHILDREN’S INDEPENDENT MOBILITY ENVIRONMENTS (CHIME) • PI: E. Owen D. Waygood; team size: 4 researchers	CAD 296,830 2020-2025
<b>McMaster Interdisciplinary Research Fund, Canada</b> EXAMINING TRAFFIC SAFETY CHALLENGES OF OLDER PEDESTRIANS IN CANADA • PI: Antonio Paez; team size: 4 researchers	CAD 42,000 2018-2019
<b>Social Sciences and Humanities Research Council, Canada</b> DO CLOSED SCHOOLS MEAN DISAPPEARING VALUE? EXPLORING THE DECAPITALIZATION OF EDUCATION IN NEIGHBOURHOOD HOUSE PRICES IN HAMILTON • PI: Christopher Higgins; team size: 2 researchers	CAD 49,705 2017-2018
<b>Labrage Optimal Aging Initiative, Canada</b> TECHNOLOGY FOR OPTIMAL AGING: AN EXPLORATORY STUDY OF THE EFFECTS OF AUTOMOBILE INNOVATIONS ON THE LIVED EXPERIENCE OF OLDER DRIVERS, THEIR MOBILITY, AND SOCIAL POLICY • PI: Amanda Grenier; team size: 4 researchers	CAD 50,449 2014-2015
<b>McMaster University, Canada</b> INCENTIVE FUNDING • PI: Antonio Paez; team size: 1 researchers	CAD 5,000 2014
<b>Natural Sciences and Engineering Research Council, Canada</b> CRITICAL INFRASTRUCTURE: EVALUATING THE EFFECT OF NETWORK TOPOLOGY AND AUTOCORRELATION • PI: Antonio Paez; team size: 1 researchers	CAD 95,000 2011-2016
<b>Canadian Institutes of Health Research, Canada</b> ENHANCING THE MOBILITY AND HEALTH OF OLDER ADULTS • PI: Heather McKay; team size: 6 researchers	CAD 25,000 2011
<b>Canadian Institutes of Health Research, Canada</b> WALK THE TALK: TRANSFORMING THE BUILT ENVIRONMENT TO ENHANCE MOBILITY IN SENIORS • PI: Heather McKay; team size: 10 researchers	CAD 1,500,000 2010-2016
<b>Canadian Institutes of Health Research, Canada</b> CANADA’S BLOOD FUTURES: GEOGRAPHY, DEMOGRAPHIC CHANGE, AND THE SUPPLY AND DEMAND OF BLOOD IN CANADA • PI: Antonio Paez; team size: 4 researchers	CAD 240,723 2010-2013
<b>Social Sciences and Humanities Research Council, Canada</b> PARKS, SHOPS, AND FRIENDS: HOW DO THE BUILT AND SOCIAL ENVIRONMENTS INFLUENCE TRAVEL BEHAVIOR? • PI: Antonio Paez; team size: 2 researchers	CAD 91,550 2010-2012
<b>Arts and Research Board McMaster University, Canada</b> CONFERENCE GRANT • PI: Antonio Paez; team size: 1 researchers	CAD 1,326 2010
<b>Human Resources and Social Development Canada, Canada</b> UNDERSTANDING THE TRANSPORTATION SITUATION OF CANADIAN ADULTS WITH DISABILITIES: IDENTIFYING BARRIERS FOR ADULTS WITH DISABILITIES WHO TRAVEL LOCALLY AND LONG-DISTANCE • PI: Antonio Paez; team size: 3 researchers	CAD 35,982 2009

<b>Social Sciences and Humanities Research Council, Canada</b>	<i>CAD 106,500</i>
UNDERSTANDING BARRIERS TO PARTICIPATION IN SPORT AND OTHER PHYSICAL ACTIVITIES	<i>2008-2011</i>
• PI: Darren M. Scott; team size: 2 researchers	
<b>Centre for Leadership in Learning McMaster University, Canada</b>	<i>CAD 800</i>
DEVELOPING A WEB-BASED SURVEY TO COLLECT STUDENT TRAVEL BEHAVIOR INFORMATION	<i>2008</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>North American Regional Science Council, US</b>	<i>USD 500</i>
TRAVEL GRANT	<i>2008</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>Human Resources and Social Development Canada, Canada</b>	<i>CAD 56,804</i>
SPATIAL MISMATCH IN CANADIAN COMMUNITIES: THE SOCIO-ECONOMIC OUTCOMES OF TRANSPORTATION INFRASTRUCTURE AND ACCESS	<i>2008</i>
• PI: Antonio Paez; team size: 5 researchers	
<b>Social Sciences and Humanities Research Council, Canada</b>	<i>CAD 40,000</i>
BLOOD DONOR RESEARCH: INDIVIDUAL DETERMINANTS AND GEOGRAPHICAL PROFILE OF BLOOD DONORS	<i>2007-2008</i>
• PI: Antonio Paez; team size: 3 researchers	
<b>Arts and Research Board McMaster University, Canada</b>	<i>CAD 2,045</i>
CONFERENCE GRANT	<i>2007</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>Social Sciences and Humanities Research Council, Canada</b>	<i>CAD 88,212</i>
SOCIAL INFLUENCE ON TRAVEL BEHAVIOR: A CASE STUDY OF THE DECISION TO TELECOMMUTE	<i>2005-2007</i>
• PI: Antonio Paez; team size: 2 researchers	
<b>Natural Sciences and Engineering Research Council, Canada</b>	<i>CAD 8,660</i>
INTERNATIONAL WORKSHOP FRONTIERS IN TRANSPORTATION: SOCIAL AND SPATIAL INTERACTIONS	<i>2005</i>
• PI: Antonio Paez; team size: 4 researchers	
<b>Arts and Research Board McMaster University, Canada</b>	<i>CAD 2,703</i>
CONFERENCE GRANT	<i>2005</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>McMaster University, Canada</b>	<i>CAD 5,000</i>
INCENTIVE FUNDING	<i>2004</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>Centre for Leadership in Learning McMaster University, Canada</b>	<i>CAD 3,078</i>
USING SPREADSHEETS AND GRAPHICS TO IMPROVE MATHEMATICAL INTUITION IN GEOGRAPHICAL PROBLEM SOLVING: THE CASE OF LOCATIONAL ANALYSIS	<i>2004</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>Natural Sciences and Engineering Research Council, Canada</b>	<i>CAD 105,000</i>
MODELING CONTINUOUS-SPACE CONTEXTUAL EFFECTS IN TRANSPORTATION SYSTEMS	<i>2003-2007</i>
• PI: Antonio Paez; team size: 1 researchers	
<b>Geomatics for Informed Decisions (GEOIDE), Canada</b>	<i>CAD 150,000</i>
TRANSPORTATION IMPLICATIONS OF CANADA'S AGING SOCIETY	<i>2003-2004</i>
• PI: Darren M. Scott; team size: 6 researchers	
<b>McMaster University, Canada</b>	<i>CAD 50,000</i>
START-UP FUNDS	<i>2002</i>
• PI: Antonio Paez; team size: 1 researchers	

## Research Impact

Fig. 3 gives a summary of my research impact according to Google Scholar. As of May, 2024, my research has been cited a total of 12,026 times, and my h-index is 57. The i10-index indicates that 130, or approximately 79% of my publications have been cited ten times or more.

The impact of my work can also be appreciated by the breadth of the fields in which it is cited. According to Web of Science (Fig. 4), my research is cited by scholars in numerous disciplines, notably in Transportation, Environmental

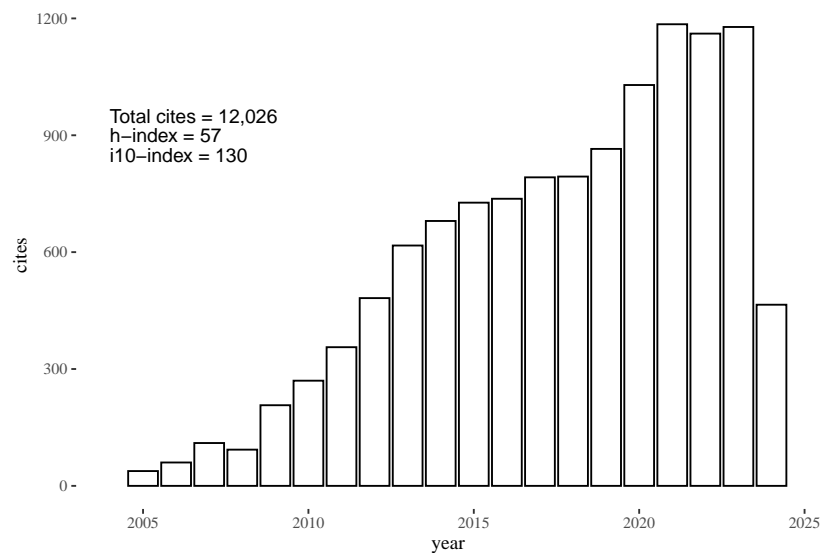


Figure 3: Citations per year (data from Google Scholar)

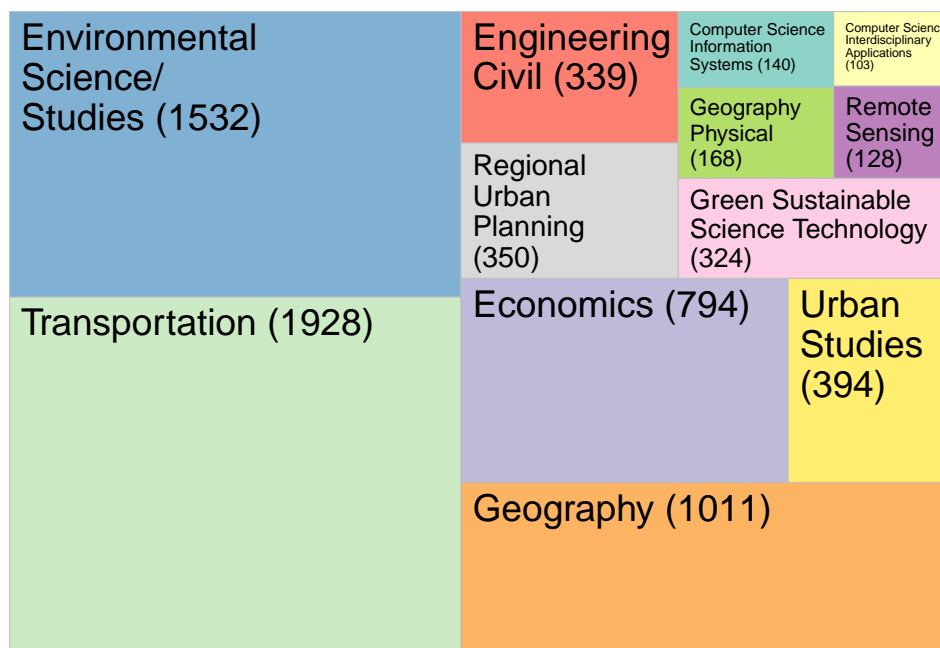


Figure 4: Citations by field (data from Web of Science)

Science/Studies, Geography, Economics, and Urban Studies. My publications have been cited by researchers in more than a 100 countries; as seen in Fig. 6, most citations to my work are by researchers in the United States, China, Canada, England, and Spain.

Lastly, my work has contributed to inform research that aligns with the United Nations Sustainable Development Goals (see Fig. 5), particularly goals 11:Sustainable Cities And Communities, 03:Good Health And Well Being, 13:Climate Action, 15:Life On Land, and 16:Peace And Justice Strong Institutions.

Combined with the level of funding described above, the cost-effect of my research is approximately CAD 7,321 per peer-reviewed article (not counting book chapters, edited books, or books). To put this number in context, this is equivalent to 55% of a one-year graduate research assistantship at my institution. In terms of impact, the cost-effect of my research is CAD 94 per citation.

## Research Output

It is conventional in my fields of expertise to list authors in order of their contributions. The first and second authors are credited with doing a majority of the work. The exception to this general rule is when the last author is the senior

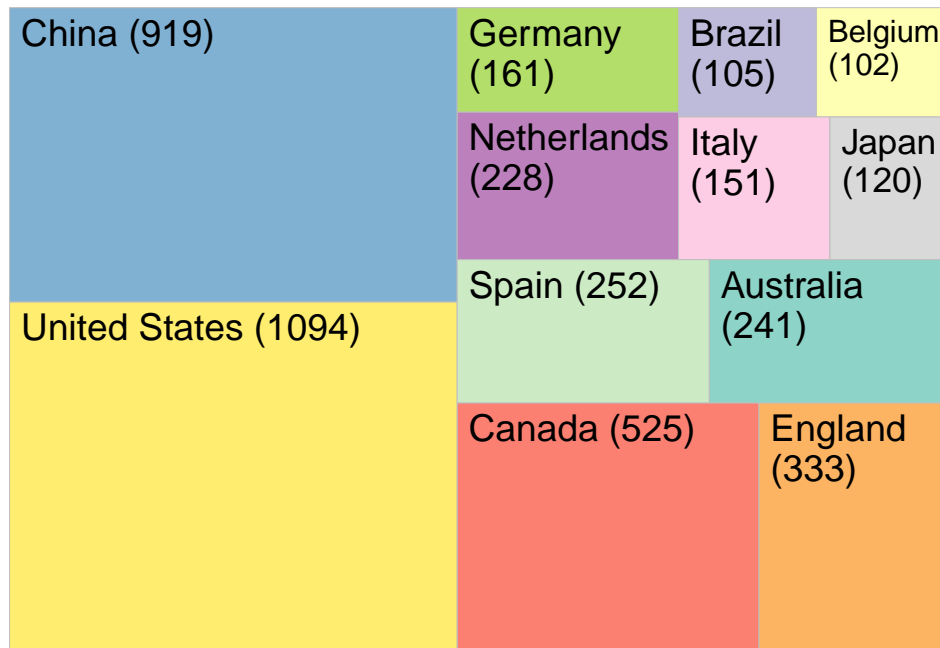


Figure 5: Citations by country (data from Web of Science)



Figure 6: Citations by Sustainable Development Goal (data from Web of Science)

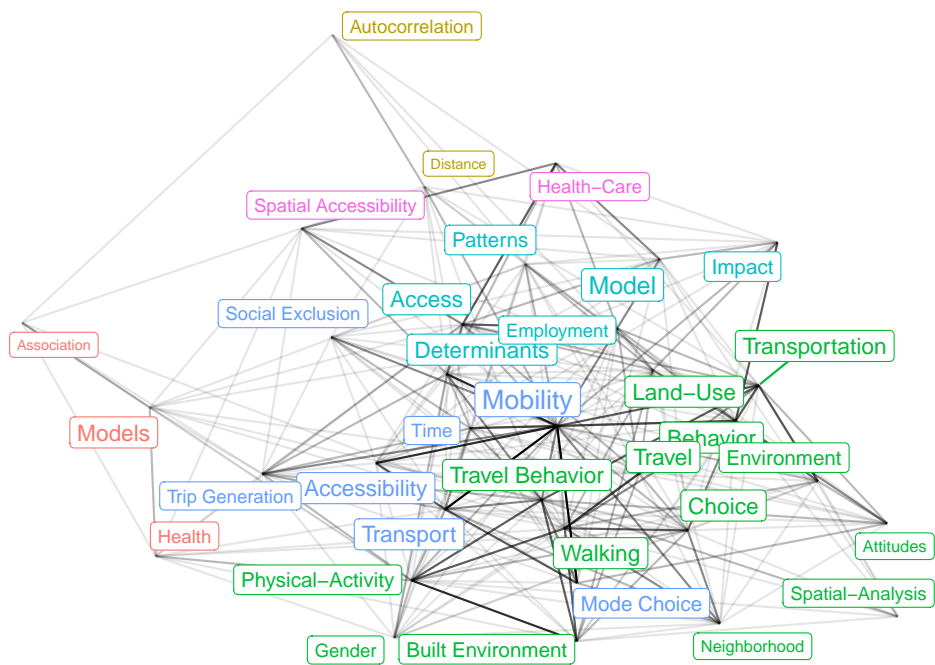


Figure 7: Key topics in my peer-reviewed publications

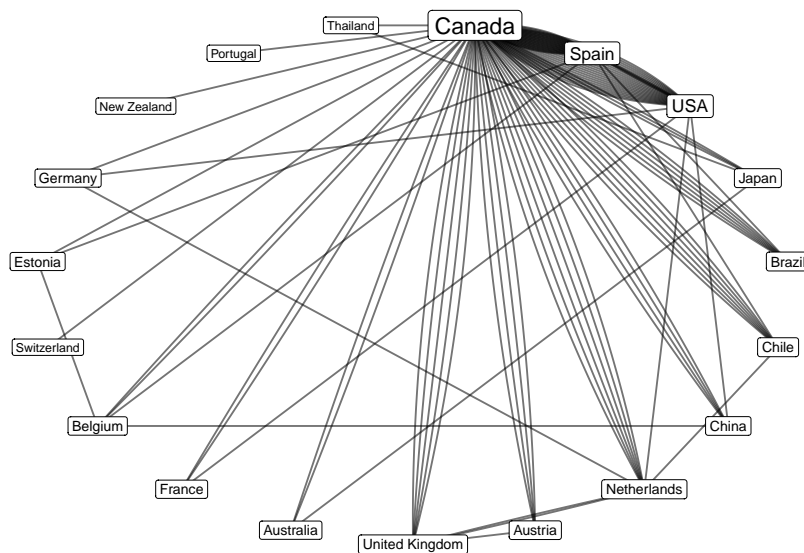


Figure 8: International collaborations

author and has provided, in addition to other contributions, supervisory support to the rest of the team.

#### AT A GLANCE

Table 2 provides some key information about my publication record. In addition to the items listed there, I am co-editor of 3 edited books. Fig. 7 maps the relationship between key topics in my peer-reviewed publications, based on keywords of the documents. Fig. 8 maps my international research collaborations.

Table 2: Bibliography at a glance

Type	No. of Items	Mean No. Authors	Max. No. Authors	Single Author	First Author	Second Author	Senior Author	Other Author
Books	1	2.00	2	0 (0%)	1 (100%)	0 (0%)	0 (0%)	0 (0%)
Book chapters	9	3.00	4	1 (11%)	4 (44%)	2 (22.22%)	2 (22.22%)	0 (0%)
Peer reviewed articles	154	3.34	7	12 (8%)	34 (22%)	61 (40%)	31 (20%)	16 (10%)



# Lifetime Publications

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## BOOKS

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

## 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.

## BOOK CHAPTERS

1. Barbosa, E., Féres, J., Haddad, E., & Páez, A. (2020). Climate change and land use pattern in brazil. In J.-C. Thill (Ed.), *Innovations in urban and regional systems: Contributions from GIS&t, spatial analysis and location modeling* (pp. 443–472). Springer International Publishing. [https://doi.org/10.1007/978-3-030-43694-0\\_20](https://doi.org/10.1007/978-3-030-43694-0_20)
2. Franklin, R. S., Leeuwen, E. S. van, & Páez, A. (2018). *Transportation where people leave: An introduction* (Vol. 2, pp. 1–14). [www.scopus.com](http://www.scopus.com)
3. Páez, A., López-Hernández, F. A., Ortega-García, J. A., & Ruiz, M. (2016). *Clustering and co-occurrence of cancer types: A comparison of techniques with an application to pediatric cancer in Murcia, Spain* (pp. 47–68). [www.scopus.com](http://www.scopus.com)
4. Páez, A. (2016). *Access and social complexity: Identifying and managing access requirements across social groups and across the world* (pp. 190–217). [www.scopus.com](http://www.scopus.com)
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6. Mur, J., & Páez, A. (2012). *Local weighting matrices or the necessity of flexibility* (Vol. 75, pp. 193–212). [www.scopus.com](http://www.scopus.com)
7. Páez, A., Le Gallo, J., Buliung, R. N., & Dall'Erba, S. (2010). *Progress in spatial analysis: introduction* (Vol. 63, pp. 1–13). [www.scopus.com](http://www.scopus.com)
8. Farber, S., Páez, A., & Volz, E. (2010). *Topology, dependency tests and estimation bias in network autoregressive models* (Vol. 63, pp. 29–57). [www.scopus.com](http://www.scopus.com)
9. Páez, A., & Wheeler, D. C. (2009). *Geographically weighted regression* (pp. 407–414). [www.scopus.com](http://www.scopus.com)

## PEER-REVIEWED JOURNAL ARTICLES (PUBLISHED)

1. 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>
2. 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>
3. 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>
4. 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>
5. 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>
6. 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>
7. 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>
8. 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>

9. 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>
10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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>
16. 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>
17. 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>
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145. Páez, 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>
146. Páez, 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>
147. Black, J. A., Páez, 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))
148. Páez, 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>
149. 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.
150. 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.
151. Páez, 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.
152. 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.
153. 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.
154. 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.

## PEER-REVIEWED JOURNAL ARTICLES (ACCEPTED FOR PUBLICATION IN FINAL FORM)

1. Jamal, S., & Páez, A. (2023). Well-being implications of immobility during COVID-19: Evidence from a student sample in Bangladesh using the satisfaction with life scale [Journal Article]. *Transportation*. <https://doi.org/10.1007/s11116-023-10395-z>



2. Rey-Blanco, D., Arbues, P., Lopez, F., & Paez, A. 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*, 0(0), 23998083241242844. <https://doi.org/10.1177/23998083241242844>

## PEER-REVIEWED JOURNAL ARTICLES (SUBMITTED FOR PUBLICATION)

1. Tavakoli, Z., Abdollahi, S., Waygood, O., Páez, A., & Geneviève, B. (2024). Developing a framework for children's accessibility considering traffic danger: A case study in Montreal, Canada [Journal Article]. *Transportation Research Part D: Transport and Environment*.
2. Tavakoli, Z., Abdollahi, S., Waygood, O., & Páez, A. (2024). "Where Do Children Go?" Exploring Children's Daily Destinations with Children, Parents, And Experts [Journal Article]. *Urban Planning*.
3. Soukhov, A., Higgins, C. D., Mohamed, M., & Páez, A. (2024). School closures and consolidations: The active travel and emission implications of reduced accessibility [Journal Article]. *Spatial Networks and Economics*.
4. Ruiz Marín, M., López, F. A., Páez, A., Debarsy, N., & Ertur, C. (2024). A test for global and local homogeneity of categorical data based on spatial runs [Journal Article]. *Geographical Analysis*.
5. Elizondo-Candanedo, R., Arranz-López, A., Soria-Lara, J., & Páez, A. (2024). When e-activities meet spatial accessibility: A theoretical framework and empirical space-time thresholds for simulated spatial settings [Journal Article]. *Journal of Transport Geography*.

## PEER-REVIEWED CONFERENCE PRESENTATIONS

1. Santos, B. D. dos, Azevedo, M. N. de, Kanzato, L. A. B., Pinho, C. M. D. de, Paez, A., & Amaral, S. (2023). CBERS-4A IMAGERY FOR MAPPING URBAN LAND COVER IN THE AMAZON. *Proceedings of the Anais Do XX Simpósio Brasileiro de Sensoriamento Remoto, Florianópolis, Brazil*, 2169–2172.
2. Santos, B. dos, Amaral, S., Pinho, C. M. D. de, & Paez, A. (2023). Adapting socioeconomic indicators and identifying intra-urban typologies in Santarém—PA. *Proceedings of the Anais Do XX Simpósio Brasileiro de Sensoriamento Remoto, Florianópolis, Brazil*, 1941–1944.
3. Santos, B. D. dos, Amaral, S., Paez, A., & Pinho, C. M. D. de. (2023). A GEOGRAPHICAL DATABASE FOR EVICTIONS AND THREATS OF INVOLUNTARY URBAN EVICTIONS PATTERNS. *Proceedings of the Anais Do XX Simpósio Brasileiro de Sensoriamento Remoto, Florianópolis, Brazil*, 1866–1869.
4. Dam, I., Scott, D., Paez, A., & Wilton, R. (2010). Exploring factors underlying the decision to telework. *89th Annual Meeting of the Transportation Research Board*.
5. Moniruzzaman, M., Chudyk, A., Paez, A., Winters, M., Sims-Gould, J., & McKay, H. (2015). Travel behavior of low income older adults and development of an accessibility calculator. *94th Annual Meeting of the Transportation Research Board*.
6. Moniruzzaman, M., Paez, A., & Morency, C. (2014). Potential contributions of walking toward physical activity guidelines of seniors. *93rd Annual Meeting of the Transportation Research Board*.
7. Farber, S., Bartholomew, K., Li, X., Paez, A., & Khandker, N. (2014). Social equity in distance-based transit fares. *93rd Annual Meeting of the Transportation Research Board*.
8. Reyes, M., Paez, A., & Morency, C. (2013). Accessibility to urban parks in Montreal from the perspective of children. *92nd Annual Meeting of the Transportation Research Board*.
9. Paez, A., Lopez, F., Ruiz, M., & Morency, C. (2013). Development of indicator to assess spatial fit of discrete choice models. *92nd Annual Meeting of the Transportation Research Board*.
10. Whalen, K., Paez, A., Bhat, C., Moniruzzaman, M., & Paleti, R. (2012). Street networks, mode of travel, and sense of community in a university town. *91st Annual Meeting of the Transportation Research Board*.
11. Paez, A., Trepanier, M., & Morency, C. (2012). Modeling isoexposure to transit users for market potential analysis. *91st Annual Meeting of the Transportation Research Board*.
12. Paez, A., Moniruzzaman, M., Bourbonnais, P., & Morency, C. (2012). Developing a web-based accessibility calculator prototype for the greater Montreal area, Canada. *91st Annual Meeting of the Transportation Research Board*.
13. Moniruzzaman, M., & Paez, A. (2012). From meso-scale analysis to micro-scale environments: A model-based approach to select case sites for conducting walkability audits. *91st Annual Meeting of the Transportation Research Board*.
14. Paez, A., Trepanier, M., & Morency, C. (2011). Identifying commercial partners for non-fare policies based on the use of transit smart cards: Geodemographic analysis of Montreal metro. *90th Annual Meeting of the Transportation Research Board*.
15. Paez, A., & Farber, S. (2011). Recreation and leisure by persons with disabilities: Analysis of transportation factors based on Canada's participation activity limitation survey. *90th Annual Meeting of the Transportation Research Board*.
16. Mejia, L., Dorantes, Paez, A., & Vasallo, J. (2011). Transportation infrastructure impacts on firm location: The effect of a new metro line in the suburbs of Madrid. *90th Annual Meeting of the Transportation Research Board*.

17. Ruminot, N., Paez, A., & Carrasco, J. (2010). Network topology, autocorrelation, and node vulnerability. *89th Annual Meeting of the Transportation Research Board*.
18. Mercado, R., Paez, A., Farber, S., Roorda, M., & Morency, C. (2010). Journey-to-work in urban areas: Explaining travel mode choice of low-income persons in ontario and quebec. *89th Annual Meeting of the Transportation Research Board*.
19. Mejia, L., Dorantes, Vasallo, J., & Paez, A. (2010). Analyzing the economic impact of a new metro line in house prices: Madrid line 12 case study. *XVI Pan-American Conference of Traffic and Transportation Engineering and Logistics*.
20. Mejia, L., Dorantes, Paez, A., & Vasallo, J. (2010). Assessment of the influence due to a new metro line on the promotion of business activities around stations: A case study of metrosur in madrid. *12th World Conference for Transport Research*.
21. Farber, S., Paez, A., Mercado, R., Roorda, M., & Morency, C. (2010). Transport and social exclusion: A time-use investigation of shopping participation in three canadian cities. *89th Annual Meeting of the Transportation Research Board*.
22. Farber, S., & Paez, A. (2010). Employment status and commute distance of canadians with disabilities. *89th Annual Meeting of the Transportation Research Board*.
23. Roorda, M., Paez, A., Morency, C., Mercado, R., & Farber, S. (2009). Trip generation of vulnerable populations in three canadian cities: A spatial ordered probit approach. *88th Annual Meeting of the Transportation Research Board*.
24. Ribeiro, A., Antunes, A., & Paez, A. (2009). Road accessibility and economic development: Empirical evidence from portugal based on spatial econometric models. *88th Annual Meeting of the Transportation Research Board*.
25. Paez, A., Mercado, R., Farber, S., Morency, C., & Roorda, M. (2009). At the intersection between opportunities and travel: Development of a new indicator of relative accessibility. *88th Annual Meeting of the Transportation Research Board*.
26. Paez, A., Habib, H., & Bonin, J. (2009). A joint ordinal-continuous model for activity episode generation and duration analysis. *88th Annual Meeting of the Transportation Research Board*.
27. Morency, C., Paez, A., Roorda, M., Mercado, R., & Farber, S. (2009). Social and spatial dimensions of distance traveled in three canadian metropolitan areas. *88th Annual Meeting of the Transportation Research Board*.
28. Kanaroglou, P., Mercado, R., Maoh, H., Paez, A., Scott, D., & Newbold, K. (2008). Policy simulation framework for analyzing elderly mobility issues using IMPACT decision support system. *87th Annual Meeting of the Transportation Research Board*.
29. Kanaroglou, P., Maoh, H., Newbold, K., Scott, D., & Paez, A. (2008). Demographic model for small-area population projections: Application to census metropolitan area of hamilton in ontario. *87th Annual Meeting of the Transportation Research Board*.
30. Farber, S., & Paez, A. (2008). Automobility and social activity participation: Preliminary analysis using data from a u.s. city. *87th Annual Meeting of the Transportation Research Board*.
31. Mercado, R., Paez, A., & Newbold, K. (2007). Benchmarking transport policy in an ageing society in the ontario province, canada. *11th World Conference for Transport Research*.
32. Mercado, R., & Paez, A. (2007). Mobility of canadian elderly: Multilevel analysis of distance traveled in the hamilton CMA, ontario, canada. *86th Annual Meeting of the Transportation Research Board*.
33. Kanaroglou, P., Mercado, R., Maoh, H., Paez, A., Scott, D., & Newbold, K. (2007). Simulating the impact of population aging on urban transportation infrastructure: An application to hamilton, canada. *11th World Conference for Transport Research*.
34. Vichiensan, V., Paez, A., Kawai, K., & Miyamoto, K. (2006). Non-stationary interpolation method for urban model development. *85th Annual Meeting of the Transportation Research Board*.
35. Mercado, R., Paez, A., Newbold, K., Scott, D., & Kanaroglou, P. (2006). Transport policy in ageing societies: An international comparison and implications for canada. *85th Annual Meeting of the Transportation Research Board*.
36. Paez, A., & Scott, D. (2005). Social influence and the decision to telecommute: A simulation example. *84th Annual Meeting of the Transportation Research Board*.
37. Paez, A., Potoglou, D., Scott, D., Kanaroglou, P., & Newbold, K. (2005). The spatial analysis of trip generation: A case study of the hamilton CMA. *10th Conference on Computers in Urban Planning and Urban Management*.
38. Paez, A. (2004). Development of a binary probit model for continuous-space contextual effects. *10th World Conference for Transport Research*.
39. Vichiensan, V., Paez, A., & Miyamoto, K. (2003). Improvement of data accuracy in urban modeling by nonstationary interpolation method. *9th Conference on Computers in Urban Planning and Urban Management*.
40. Paez, A. (2003). Spatial statistics for urban analysis: A review of new techniques with examples. *9th Conference on Computers in Urban Planning and Urban Management*.
41. Paez, A., Suthanaya, P., & Black, J. (2001). A spatial analysis of transportation mode-specific journey-to-work commuting preferences: Implications for sustainable transport policies. *9th World Conference for Transport Research*.

## NON-PEER-REVIEWED CONFERENCE PRESENTATIONS

Number of lifetime non-peer-reviewed conference presentations is 103.

## Knowledge Mobilization Activities

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### Applied accessibility analysis using FOSS

TRANSPORTATION SERVICES, CITY OF TORONTO

- Instructor

*Toronto, Canada*

*May 28-2024*

### Creating Programmatic CVs with R

SCHOOL OF EARTH, ENVIRONMENT AND SOCIETY, MCMASTER UNIVERSITY

- Presenter

*Hamilton, Canada*

*April 15-2024*

### Open Educational Resources: What, Why and How?

UNIVERSIDAD COMPLUTENSE DE MADRID

- Presenter

*Madrid, Spain*

*June 12-2023*

### Workshop: Writing a McMaster thesis with R, markdown, and macdown

MCMASTER UNIVERSITY

- Instructor

*Hamilton, Canada*

*April 14 and 21-2023*

### Accessibility and Threshold Selection

POLYTECHIQUE MONTRÉAL

- Presenter

*Montréal, Canada*

*May 20-2022*

### Creating Programmatic CVs with R

SCHOOL OF EARTH, ENVIRONMENT AND SOCIETY, MCMASTER UNIVERSITY

- Presenter

*Hamilton, Canada*

*April 4-2022*

## Invited Talks, Seminars, Workshops, Courses, and Panels

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LIFETIME TALKS, SEMINARS, WORKSHOPS, PANELS

My lifetime number of talks is 121.

MOST RECENT 10 YEARS

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

PLANNING AND TRANSPORT RESEARCH CENTRE, THE UNIVERSITY OF WESTERN AUSTRALIA

- John Taplin Memorial Lecture, Keynote Speaker

*Perth, Australia*

*March 21-2024*

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

BUSINESS DATA ANALYTICS, THE UNIVERSITY OF WESTERN AUSTRALIA

- Workshop, Instructor

*Perth, Australia*

*March 20 and 22-2024*

### Introducing spatial availability, a singly-constrained accessibility measure

KARLSRUHE INSTITUTE OF TECHNOLOGY-ITAS

- Workshop, Instructor

*Karlsruhe, Germany*

*February 20-2024*

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

INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

- GEOINFO 2023, Keynote Speaker

*São José dos Campos, Brazil*

*December 4-2023*

### Open Science for All

MCMASTER REPRODUCIBILI TEA

- Invited Talk, Speaker

*Hamilton, Canada*

*October 17-2023*

### Introducing spatial availability, a singly-constrained accessibility measure

POLYTECHIQUE MONTRÉAL

- Workshop, Instructor

*Montréal, Canada*

*October 7-2023*

### Ciencia Abierta para Todos (Open Science for All)

UNIVERSIDAD DE MURCIA

- VIII Jornadas Doctorales, Keynote Speaker

*Murcia, Spain*

*June 27-2023*

<b>Reality or wishful thinking: Network attributes of 15-minute neighbourhoods</b> UNIVERSIDADE DE COIMBRA • NECTAR Joint Workshop Clusters 6 and 7 on Urban and Transport Planning for Sustainable Urban Living, Presenter	Coimbra, Portugal June 22-2023
<b>Profiling the 15-min pedshed from the perspective of network attributes</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	Montréal, Canada June 14-2023
<b>How is active school travel (AST) framed in Ontario</b> NEW YORK UNIVERSITY, CENTER FOR URBAN SCIENCE AND PROGRESS • Invited Seminar, Presenter	New York City April 7-2023
<b>Spatial availability: a way to measure accessibility to competitive opportunities</b> NORTHERN ILLINOIS UNIVERSITY • Invited Seminar, Presenter	DeKalb, Illinois, USA February 17-2023
<b>Reproducible Research Workflow</b> RESEARCH DATA MANAGEMENT COMMUNITY OF PRACTICE - MCMASTER UNIVERSITY • Invited Talk, Speaker	Hamilton, Canada January 26-2023
<b>An introduction to exploratory data analysis in R</b> ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA IN RIMINI • Invited workshop, Instructor	Rimini, Italy November 14, 17, and 18-2022
<b>An introduction to exploratory data analysis in R</b> GRAN SASSO SCIENCE INSTITUTE • Invited workshop, Instructor	L'Aquila, Italy June 10, 20, 24, 27 and 29-2022
<b>Framing Active School Travel in Ontario, Canada</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	Montréal, Canada May 19-2022
<b>Mobilizing Justice: Developing Data-Driven Equity Standards</b> NEWCASTLE UNIVERSITY • Invited Seminar, Presenter	Newcastle-upon-Tyne, UK May 4-2022
<b>Spatial Data and Analytics</b> ALAN TURING INSTITUTE • SAD Interview, Interviewee	Newcastle-upon-Tyne, UK May 3-2022
<b>Developing a companion package to support teaching spatial statistics with Introduction to Spatial Data Analysis and Statistics</b> MACPHERSON INSTITUTE AND MCMASTER UNIVERSITY LIBRARY • Lightning Round: Teaching in the Open at McMaster, Panelist	Hamilton, Canada March 7-2022
<b>Introducing Spatial Availability: A Singly Constrained Measure of Accessibility</b> INSTITUTO DE PESQUISA ECONÔMICA APLICADA • Invited Talk, Speaker	Brasília, Brazil December 10-2021
<b>Investigación Reproducible</b> DOCTORADO EN ECONOMÍA INTERUNIVERSITARIO • VI Jornadas de Doctorado y Seminarios Novel, Keynote Speaker	Cartagena, Spain November 29-2021
<b>Creation of a Living Textbook for Teaching Spatial Statistics</b> MACPHERSON INSTITUTE AND MCMASTER UNIVERSITY LIBRARY • Lightning Round: Teaching in the Open at McMaster, Panelist	Hamilton, Canada October 28-2021
<b>Examining spatial equity of bike share: A balanced floating catchment area approach</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	Montréal, Canada May 25-2021
<b>What's a school worth to a neighborhood</b> GRAN SASSO SCIENCE INSTITUTE • Invited Seminar, Presenter	L'Aquila, Italy March 17- 2021
<b>Transportation research seminar</b> ITE TRANSPORTATION RESEARCH SEMINAR (MCMASTER CHAPTER) • Invited Talk, Speaker	Hamilton, Canada October 1-2020

<b>Using CycleStreets and spatial interaction analysis to infer cycling routes</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	<i>Montréal, Canada</i> <i>June 16-2020</i>
<b>Big data and behavioral analysis</b> TRANSYT, UNIVERSIDAD POLITÉCNICA DE MADRID • Invited Talk, Speaker	<i>Madrid, Spain</i> <i>July 9-2019</i>
<b>Como integrar aprendizaje de máquinas y econometría espacial para el análisis de precios hedónicos: un ejemplo de segmentación espacial de mercados en tres ciudades españolas</b> DEPARTMENT OF APPLIED ECONOMICS, UNIVERSIDAD AUTÓNOMA DE MADRID • Invited Talk, Speaker	<i>Madrid, Spain</i> <i>July 8-2019</i>
<b>Accessibility in Infrastructure Poor Regions</b> DEPARTMENT OF CIVIL, ENVIRONMENTAL, AND GEOMATICS ENGINEERING, ETH ZURICH • Invited Talk, Speaker	<i>Zurich, Switzerland</i> <i>July 1-2019</i>
<b>Big data and behavioral analysis</b> UNIVERSIDAD POLITÉCNICA DE CARTAGENA • XXIII Applied Economics Meeting, Keynote Speaker	<i>Cartagena, Spain</i> <i>June 6-2019</i>
<b>Cost Functions for Accessibility by Walking</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	<i>Montréal, Canada</i> <i>May 21-2019</i>
<b>McMaster Research Data Forum</b> MCMASTER LIBRARY, RHPCS, MACDATA, AND THE TIER 3 RESEARCH DATA MANAGEMENT IT COMMITTEE • McMaster Research Data Forum, Panelist	<i>Hamilton, Canada</i> <i>December 18-2018</i>
<b>Accesibilidad a los servicios de salud</b> DEPARTMENT OF GEOGRAPHY, UNIVERSIDAD COMPLUTENSE DE MADRID • Invited Talk, Speaker	<i>Madrid, Spain</i> <i>June 5-2018</i>
<b>Developing Dashboards to Communicate Transportation Information</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	<i>Montréal, Canada</i> <i>May 23-2018</i>
<b>Methodology: spatial statistics with R</b> GRAN SASSO SCIENCE INSTITUTE • Short Course, Instructor	<i>L'Aquila, Italy</i> <i>March 12 to 14-2018</i>
<b>Travel and Time Poverty among Canadian Single Parent Households</b> UNIVERSITY OF TORONTO • CIHR Workshop: Considering the role of Time Pressure and Geography In Food Shopping and dietary behaviours, Speaker	<i>Toronto, Canada</i> <i>October 26-2017</i>
<b>Built environment and violent crime: An environmental audit approach using Google Street View</b> DEPARTMENT OF LAND ECONOMY, UNIVERSITY OF CAMBRIDGE • Invited Talk, Speaker	<i>Cambridge, UK</i> <i>October 11-2017</i>
<b>A simple indicator for inequality analysis in activity/travel behavior</b> BARTLETT SCHOOL OF PLANNING, UNIVERSITY COLLEGE LONDON • Invited Talk, Speaker	<i>London, UK</i> <i>October 9-2017</i>
<b>Exploratory spatial data analysis of categorical data</b> REGIONAL SCIENCE ASSOCIATION INTERNATIONAL-GRAN SASSO SCIENCE INSTITUTE SUMMER SCHOOL • Invited workshop, Instructor	<i>L'Aquila, Italy</i> <i>July 3 to 4-2017</i>
<b>Spatial Clustering of Traveller Attitudinal Profiles</b> POLYTECHIQUE MONTRÉAL • Colloque Annuel de la Chaire Mobilité, Presenter	<i>Montréal, Canada</i> <i>May 12-2017</i>

## Mode Use Propensity by Attitudinal and Spatial Cluster: An Exploratory Analysis

ECOLE SUPERIEURE D'AMENAGEMENT DU TERRITOIRE ET DE DEVELOPPEMENT REGIONAL, LAVAL  
UNIVERSITY

- Invited Talk, Speaker

Quebec, Canada

April 19-2017

## Gender or Role? Analysis of activity participation of single-parent household heads in Canada considering Time-Use Patterns

CENTRO DE DESARROLLO SUSTENTABLE UNIVERSIDAD DE CONCEPCIÓN

- Invited Talk, Speaker

Concepción, Chile

March 6-2017

## Indicators for inequality analysis in activity/travel behavior

TRANSPORT EQUITY ANALYSIS COST ACTION

- Invited Seminar, Presenter

Thessaloniki, Greece

May 6-2015

## Accessible Accessibility Research Challenges

ASSOCIATION OF AMERICAN GEOGRAPHERS

- Fleming Lecture in Transport Geography (Prof. Bert van Wee), Discussant

Chicago, USA

April 23-2015

## Transportation and Spatial Analysis

DEPARTMENT OF GEOGRAPHY, UNIVERSITY OF CALIFORNIA SANTA BARBARA

- Invited Talk, Speaker

Santa Barbara, USA

January 29-2015

## In the Beginning There was Transportation (There was also GIS)

SCHOOL OF GEOGRAPHY, EARTH AND ENVIRONMENTAL SCIENCES, UNIVERSITY OF BIRMINGHAM

- Invited Seminar, Presenter

Birmingham, UK

January 12-2015

## Selected topics in spatial analysis

THE UNIVERSITY OF WESTERN AUSTRALIA BUSINESS SCHOOL

- Invited workshop, Instructor

Perth, Australia

December 12 to 17-2014

## External Service

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### Steering Committee

MEMBER

Modeling Geographical Systems

Commission (International  
Geographical Union)

2020-present

### Benjamin H. Stevens Graduate Fellowship

CHAIR

North American Regional Science  
Council

2013

### International Advisory Committee

MEMBER

Chaire de recherche industrielle  
MOBILITÉ (Polytechnique  
Montreal)

2011-present

### Standing Committee on Social and Economic Factors of Transportation

MEMBER

Transportation Research Board

2011-2016

### Transport Geography Specialty Group

BOARD MEMBER

Association of American  
Geographers

2010-2012

### Benjamin H. Stevens Graduate Fellowship

MEMBER

North American Regional Science  
Council

2009-2012

### International Steering Committee, International Workshop Frontiers in Transportation

MEMBER

University of Amsterdam

2005

### Dissertation Contest

COORDINATOR

Regional Science Association  
International

2004-2007