

# Antonio Páez

PROFESSOR

School of Earth, Environment and Society  
McMaster University  
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## About this CV

This CV was created programmatically using the R statistical language, and it can be accessed here:  
<https://github.com/paezha/Official-CV/blob/master/awesomecv/paez-killam-cv.pdf>

## About Me

- I trained in civil engineering before being adopted into geography.
- My areas of interest include transportation, equity, justice, spatial analysis, spatial statistics, travel behavior, and cities.
- Also, too, mathematics, computer languages, science fiction, poetry, and history.
- A 2024 global bibliometric analysis by Research.com of the most influential scholars in the social sciences and humanities (about 16,000 researchers) places me in the **top 3%** of scholars in the world.
- 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.
- 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 of policy and basic research in geography.

## Education

### Tohoku University

PHD Sendai, Japan  
1997-2000

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

### Tohoku University

M.Sc. Sendai, Japan  
1995-1997

- Thesis Title: Evaluation of Environmental Changes Caused by Urbanization

### 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

## Areas of Interest

Transportation; accessibility; equity; justice; spatial data analysis and statistics; transportation modeling; travel behavior; health geography; Geographic Information Systems.

## Teaching at a Glance

### TOTAL NUMBER OF COURSES TAUGHT

Undergraduate: 55

Graduate: 19

### TOTAL NUMBER OF STUDENTS

Undergraduate: 2,307

Graduate: 94

## Teaching (Details)

### UNDERGRADUATE TEACHING

<b>Transportation Geography</b>	<i>Times offered: 2</i>
TOTAL ENROLMENT: 80 STUDENTS	ENVSOCY 3LT3
<b>Applied Spatial Statistics</b>	<i>Times offered: 3</i>
TOTAL ENROLMENT: 113 STUDENTS	ENVSOCY 4GA3
<b>Transport Policy</b>	<i>Times offered: 3</i>
TOTAL ENROLMENT: 46 STUDENTS	ENVSOCY 4LP3
<b>Locational Analysis</b>	<i>Times offered: 6</i>
TOTAL ENROLMENT: 492 STUDENTS	GEOG 2HA3
<b>Transportation and Economic Activity</b>	<i>Times offered: 4</i>
TOTAL ENROLMENT: 415 STUDENTS	GEOG 2LI3
<b>Transportation Geography</b>	<i>Times offered: 8</i>
TOTAL ENROLMENT: 284 STUDENTS	GEOG 3LT3
<b>Analysis of Transportation Systems</b>	<i>Times offered: 6</i>
TOTAL ENROLMENT: 280 STUDENTS	GEOG 4D03
<b>Applied Spatial Statistics</b>	<i>Times offered: 6</i>
TOTAL ENROLMENT: 186 STUDENTS	GEOG 4GA3
<b>Special Topics in GIS: Geodemographic Analysis</b>	<i>Times offered: 1</i>
TOTAL ENROLMENT: 20 STUDENTS	GEOG 4GT3
<b>Transport Policy</b>	<i>Times offered: 7</i>
TOTAL ENROLMENT: 118 STUDENTS	GEOG 4LP3
<b>Analysis of Transportation Systems</b>	<i>Times offered: 4</i>
TOTAL ENROLMENT: 166 STUDENTS	GEOG 4LT3
<b>Advanced Topics in Spatial Analysis</b>	<i>Times offered: 5</i>
TOTAL ENROLMENT: 107 STUDENTS	GEOG 4S03

### GRADUATE TEACHING

<b>Reproducible Research Workflow</b>	<i>Times offered: 4</i>
TOTAL ENROLMENT: 32 STUDENTS	GEO *712
<b>Transport Policy and Elderly Mobility</b>	<i>Times offered: 1</i>
TOTAL ENROLMENT: 1 STUDENTS	GEO *715
<b>Discrete Choice and Policy Analysis</b>	<i>Times offered: 10</i>
TOTAL ENROLMENT: 54 STUDENTS	GEO *738

<b>Transport Policy</b>	<i>Times offered: 4</i>
TOTAL ENROLMENT: 7 STUDENTS	GEOG 6LP3
<b>DIPLOMA-CERTIFICATE TEACHING</b>	
<b>Advanced Topics in Spatial Analysis</b>	<i>Times offered: 3</i>
TOTAL ENROLMENT: 29 STUDENTS	510-654
<b>Major Project</b>	<i>Times offered: 3</i>
TOTAL ENROLMENT: 18 STUDENTS	510-655
<b>Applied Project</b>	<i>Times offered: 1</i>
TOTAL ENROLMENT: 2 STUDENTS	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	2	-	-
Undergraduate	Physics	1	-	-

### UNDERGRADUATE SUPERVISION

<b>Amanda Rorat (McMaster University, Canada)</b>	<i>In Progress</i>
	<i>Life Sciences</i>
<b>Josh Arbess (McMaster University, Canada)</b>	<i>2021</i>
	<i>Engineering and Society</i>
<b>Subaita Refaaf (McMaster University, Canada)</b>	<i>2021</i>
	<i>Geography</i>
<b>Nadhiyya Shabir (McMaster University, Canada)</b>	<i>2021</i>
	<i>Life Sciences</i>
<b>Josh Arbess (McMaster University, Canada)</b>	<i>2020</i>
CO-SUPERVISED WITH SANATHAN KASSIEDASS, SENIOR ADVISOR, INNOVATION AND NEW MOBILITY – METROLINX	<i>Engineering and Society</i>
<b>Samuel Greg Smilski (McMaster University, Canada)</b>	<i>2020</i>
	<i>Engineering and Society</i>
<b>William Li (McMaster University, Canada)</b>	<i>2019</i>
	<i>Geography</i>
<b>Dylan Ward (McMaster University, Canada)</b>	<i>2019</i>
	<i>Geography</i>
<b>Ruikang Lin (McMaster University, Canada)</b>	<i>2018</i>
	<i>Geography</i>
<b>Alexander Moriopoulous (McMaster University, Canada)</b>	<i>2018</i>
	<i>Geography</i>

<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>Salvatore Vivona (McMaster University, Canada)</b>	2017 Physics
<b>Katelyn Penney (McMaster University, Canada)</b>	2015 Geography
<b>Gabriela Tokarska (McMaster University, Canada)</b>	2013 Engineering and Society
<b>Katelyn Penney (McMaster University, Canada)</b>	2013 Geography
<b>Mike McKnight (McMaster University, Canada)</b>	2012 Engineering and Society
<b>Christine Fandrich (McMaster University, Canada)</b>	2012 Geography
<b>Zibby Petch (McMaster University, Canada)</b>	2010 Civil Engineering
<b>Karolina Krol (McMaster University, Canada)</b>	2009 Civil Engineering
<b>Alexander Eryuzlu (McMaster University, Canada)</b>	2009 Engineering and Society
<b>David Snell (McMaster University, Canada)</b>	2009 Geography
<b>Adam Howell (McMaster University, Canada)</b>	2008 Engineering and Society
<b>Doug C. Sharpe (McMaster University, Canada)</b>	2006 Engineering and Society
<b>Justin M. Potalivo (McMaster University, Canada)</b>	2005 Engineering and Society
<b>Matt G. Sonnenberg (McMaster University, Canada)</b>	2005 Engineering and Society
<b>Steve Gitao (McMaster University, Canada)</b> CO-SUPERVISED WITH PAVLOS KANAROGLOU	2005 Geography
MASTER'S SUPERVISION	
<b>Mahdis Moghadasi (McMaster University, Canada)</b>	2024 Geography
<b>Niloofer Nalaei (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>	2019
CO-SUPERVISED WITH SARAH DICKSON AND CORINNE WALLACE	Public Health
<b>Rodrigo Victoriano (Universidad de Concepcion, Chile)</b>	2018
CO-SUPERVISED WITH JUAN A. CARRASCO	Civil Engineering
<b>Alvaro E. Toledo (Universidad de Concepcion, Chile)</b>	2018
CO-SUPERVISED WITH JUAN A. CARRASCO	Civil Engineering
<b>Christine Fandrich (McMaster University, Canada)</b>	Withdrew from Program
	Geography
<b>Edivaldo C. Neves (Universidade Federal de Pernambuco, Brazil)</b>	2013
CO-SUPERVISED WITH TATIANE MENEZES	Economy
<b>Mario Reyes (McMaster University, Canada)</b>	2013
	Geography
<b>Sammara C. Soares (Universidade Federal de Pernambuco, Brazil)</b>	2012
CO-SUPERVISED WITH TATIANE MENEZES	Economy
<b>Kristina Cimaroli (McMaster University, Canada)</b>	2012
CO-SUPERVISED WITH K. BRUCE NEWBOLD	Geography
<b>Jarin Esita (McMaster University, Canada)</b>	2012
	Geography
<b>Eduardo Barbosa (Universidad de Sao Paulo, Brazil)</b>	2011
CO-SUPERVISED WITH EDUARDO A. HADDAD	Economy
<b>Cristian Bustos (Universidad de Concepcion, Chile)</b>	2011
CO-SUPERVISED WITH JUAN A. CARRASCO	Civil Engineering
<b>Md Moniruzzaram (McMaster University, Canada)</b>	2011
	Geography
<b>Kate Whalen (McMaster University, Canada)</b>	2011
	Geography
<b>Nicolas M. Cespedes (Universidad de Concepcion, Chile)</b>	2011
CO-SUPERVISED WITH JUAN A. CARRASCO	Civil Engineering
<b>Adam Drackley (McMaster University, Canada)</b>	2010
CO-SUPERVISED WITH K. BRUCE NEWBOLD	Geography
<b>P.J. Saberton (McMaster University, Canada)</b>	2010
CO-SUPERVISED WITH K. BRUCE NEWBOLD	Geography
<b>Ana Maria Bonomi Barufi (Universidad de Sao Paulo, Brazil)</b>	2010
CO-SUPERVISED WITH EDUARDO A. HADDAD	Economy
<b>Ivy Dam (McMaster University, Canada)</b>	2009
CO-SUPERVISED WITH DARREN M. SCOTT	Geography
<b>Natalia Andrea Ruminot Villegas (Universidad de Concepcion, Chile)</b>	2009
CO-SUPERVISED WITH JUAN A. CARRASCO	Civil Engineering
<b>Felipe Antonio Sanhueza Cardenas (Universidad de Concepcion, Chile)</b>	2009
CO-SUPERVISED WITH JUAN A. CARRASCO	Civil Engineering
<b>Julien Bonin (McMaster University, Canada)</b>	2008
	Geography
<b>Fei Long (McMaster University, Canada)</b>	2006
	Geography
<b>Kenji Kawai (Tohoku University, Japan)</b>	2002
CO-SUPERVISED WITH KAZUAKI MIYAMOTO	Civil Engineering
<b>Eri Yamada (Tohoku University, Japan)</b>	2001
CO-SUPERVISED WITH KAZUAKI MIYAMOTO	Civil Engineering

## DOCTORAL SUPERVISION

**Bruno Dias dos Santos (McMaster University, Canada)**

*In Progress*

Geography

**Anastasia Soukhov (McMaster University, Canada)**

*In Progress*

Geography

**Elise Desjardins (McMaster University, Canada)**

*In Progress*

Geography

**Fernando Romero (Universidad Politecnica de Madrid, Spain)**

2020

CO-SUPERVISED WITH JOSÉ MANUEL VASALLO

Civil Engineering

**Kate Whalen (McMaster University, Canada)**

2020

Geography

**Tatiana Ferrari Kolodin (Universidade Federal de Minas Gerais, Brazil)**

2019

CO-SUPERVISED WITH PEDRO AMARAL

Economy

**Faten Almjlad (McMaster University, Canada)**

*Withdrew from Program*

Geography

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

2016

Geography

**Md Moniruzzaram (McMaster University, Canada)**

2014

Geography

**Mario Reyes (McMaster University, Canada)**

*Withdrew from Program*

Geography

**Daniel Del Bianco (McMaster University, Canada)**

*Withdrew from Program*

Geography

**Lucia Mejia (Universidad Politecnica de Madrid, Spain)**

2011

CO-SUPERVISED WITH JOSÉ MANUEL VASALLO

Civil Engineering

**Steven Farber (McMaster University, Canada)**

2010

Geography

**Ruben Mercado (McMaster University, Canada)**

2007

Geography

## 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 Hamideteherani (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

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 Iglori)

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 McCormack (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

## Examination Committees

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Samira Hamidetebrani (Ph.D., McMaster University; School of Earth, Environment and Society ) September 15, 2023

Daniel Van Veghel (M.Sc., McMaster University; School of Earth, Environment and Society ) August 28, 2023

Bruno Dias dos Santos (M.Sc., INPE, Brazil) May 18, 2023

Daniela Arias Molinara (Ph.D., Facultad de Geografía e Historia, Universidad Complutense de Madrid) May 10, 2023

Shaila Jamal (Ph.D. McMaster University; School of Earth, Environment and Society) May 9, 2023

Lucy Joseph Chabariko (Ph.D., School of Transportation Sciences, University of Hasselt) December 21, 2020

Darcy Reynard (Ph.D., Department of Earth and Atmospheric Sciences, University of Alberta) December 18, 2020

Jose Carpio-Pinedo (Ph.D., ETS Arquitectura, Universidad Politécnica de Madrid) November 19, 2020

Sami Kurani (M.A., McMaster University; School of Earth, Environment and Society) September 28, 2020

Geun (Jayden) Choi (M.A., McMaster University; School of Earth, Environment and Society) August 25, 2020

Matthew Brown (M.A., McMaster University; School of Earth, Environment and Society) April 3, 2020

Javier Delso (Ph.D., ETSI Montes, Universidad Politécnica de Madrid) February 25, 2020

Shaila Jamal (Ph.D., Comprehensive Examination, School of Geography and Earth Sciences) February 11, 2020

Kyran Cupido (Ph.D., Arizona State University, School of Mathematics and Statistical Sciences) December 6, 2019

Zoha Anjum (MPH, McMaster University, Health Research Methods, Evidence, and Impact) September 2019

Georgios Sarlas (Ph.D., ETH Zurich, Civil, Environmental, and Geomatics Engineering) July 1, 2019

Matthew Quick (Ph.D., University of Waterloo; School of Planning) April 24, 2019

Wade Genders (Ph.D., McMaster University; Civil Engineering) November 22, 2018

Quinn Hachey (M.A., McMaster University; School of Geography and Earth Sciences) December 18, 2017

Wei Lu (M.A., McMaster University; School of Geography and Earth Sciences) September 28, 2017

Charles Burke (Ph.D., McMaster University; School of Geography and Earth Sciences) December 5, 2016

Nazila Roofigari-Esfahan (Ph.D., McMaster University; Civil Engineering) August 8, 2016

Juan Pablo Ospina Zapata (Ph.D., Comprehensive Examination. Universidad Nacional de Colombia – Medellin; Civil Engineering) June 10, 2016

Arash Olia (Ph.D., McMaster University; Civil Engineering) June 8, 2016

Geraldine Fuenmayor (Ph.D., University of Calgary; Civil Engineering) May 19, 2016

Sadia Yawar (M.A., McMaster University; School of Geography and Earth Sciences) April 29, 2016

An Neven (Ph.D., Hasselt University; School of Transportation Sciences) September 7, 2015

Chris Higgins (Ph.D., McMaster University; School of Geography and Earth Sciences) August 28, 2015

Matthew Adams (Ph.D., McMaster University; School of Geography and Earth Sciences) July 31, 2015

Scott Bennett (Ph.D., McMaster University; School of Geography and Earth Sciences) July 3, 2015

Wade Genders (M.A.Sc., McMaster University; Civil Engineering) November 17, 2014

Sarah Dickin (Ph.D., McMaster University; Geography) September 5, 2014

Simon Minelli (M.A.Sc., McMaster University; Civil Engineering) September 3, 2014

Ron Dalumpines (Ph.D., McMaster University; Geography) July 28, 2014

Markus Botte (Ph.D., University of Western Australia; Business) July 4, 2014

Kathleen Deutsch (Ph.D., University of California Santa Barbara; Geography) June 20, 2013

Chris Higgins (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) February 14, 2013

Andrew Clarke (Ph.D., McMaster University; Geography and Earth Sciences) September 24, 2012

Adrian Klisz (M.A., McMaster University; Geography and Earth Sciences) July 24, 2012

Sarah Dickin (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) October 24, 2011

Jia Yang (M.A., McMaster University; Geography and Earth Sciences) September 12, 2011

Xudong Liu (M.A., McMaster University; Geography and Earth Sciences) September 12, 2011

Ron Dalumpines (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) December 3, 2010

Jia Yang (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) December 2, 2010

Xudong Liu (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) December 2, 2010

Jamie E.L. Spinney (Ph.D., McMaster University; Geography and Earth Sciences) September 24, 2010

Kelsey McCormack (Ph.D., McMaster University; Geography and Earth Sciences) July 27, 2010

PJ Saberton (M.A., McMaster University; Geography and Earth Sciences) July 26, 2010

Adam Drackley (M.A., McMaster University; Geography and Earth Sciences) July 26, 2010



Kathleen Deutsch (Ph.D., Proposal Defense. University of California Santa Barbara) April 14, 2010

Daniela Schettini (Ph.D., Universidade de São Paulo; Economics) April 9, 2010

Ana Maria Bonomi Barufi (M.A., Universidade de São Paulo; Economics) February 12, 2010

Logan McLeod (Ph.D., McMaster University; Economics) November 13, 2009

Yifei Wang (M.A., McMaster University; Geography and Earth Sciences) September 18, 2009

Ivy Dam (M.A., McMaster University; Geography and Earth Sciences) September 18, 2009

Karen Wiley (M.A., McMaster University; Geography and Earth Sciences) September 10, 2009

Theodora Poulou (Ph.D., McMaster University; Geography and Earth Sciences) September 8, 2009

Terry Li (Ph.D., The University of Queensland; School of Geography, Planning and Environmental Management) August, 2009

Gustavo Renno Rocha (M.Sc., Qualification Examination. Universidade de São Paulo; Escola de Engenharia de São Carlos) August 7, 2009

Dan Harrington (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) January 20, 2009

Kelsey MacCormack (Ph.D., Comprehensive Examination. McMaster University; Geography and Earth Sciences) September 22, 2008

Hejun Kang (Ph.D., McMaster University; Geography and Earth Sciences) August 18, 2008

Kenneth Harold Doust (Ph.D., University of New South Wales, Australia; School of Civil and Environmental Engineering) May, 2008

Sylvia He (M.A., McMaster University; Geography and Earth Sciences) August 8, 2006

Jennifer L. Campos (Ph.D., McMaster University; Psychology and Neuroscience) September 11, 2007

Jessica Becker (M.A., McMaster University; Geography and Earth Sciences) September 17, 2007

Charles Cheung (Ph.D., University of New South Wales, Australia; School of Civil and Environmental Engineering) June, 2005

## Funding for Teaching and Learning

I have been the recipient of several grants to improve teaching practice, to the total of CAD 18,778. The funding sources as well as the projects are as shown below.

<b>MacPherson Institute-McMaster University Libraries, Canada</b>	<b>CAD 4,932</b>
PUBLICATION AND EVALUATION OF THE EFFECTIVENESS OF AN OPEN-SOURCE BOOK TO TEACH SPATIAL STATISTICS	2021-2022
• PI: Antonio Paez; team size: 2 researchers	
<b>MacPherson Institute, Canada</b>	<b>CAD 2,968</b>
USING INTERACTIVE RESOURCES TO TEACH SPATIAL STATISTICS IN A FLIPPED CLASSROOM FORMAT.	2019
• PI: Antonio Paez; team size: 3 researchers	
<b>School of Geography and Earth Sciences, Canada</b>	<b>CAD 7,000</b>
IMPROVING TEACHING MATERIALS FOR SPATIAL STATISTICS	2018
• PI: Antonio Paez; team size: 2 researchers	
<b>Centre for Leadership in Learning McMaster University, Canada</b>	<b>CAD 800</b>
DEVELOPING A WEB-BASED SURVEY TO COLLECT STUDENT TRAVEL BEHAVIOR INFORMATION	2008
• PI: Antonio Paez; team size: 1 researchers	
<b>Centre for Leadership in Learning McMaster University, Canada</b>	<b>CAD 3,078</b>
USING SPREADSHEETS AND GRAPHICS TO IMPROVE MATHEMATICAL INTUITION IN GEOGRAPHICAL PROBLEM SOLVING: THE CASE OF LOCATIONAL ANALYSIS	2004
• PI: Antonio Paez; team size: 1 researchers	

# Open Educational Resources

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## BOOKS

1. Páez, A. (2024). *An introduction to spatial data analysis and statistics: A course in R*. <https://doi.org/10.5281/zenodo.5155983>

## PACKAGES

1. Páez, A., Ubhi, R., & Dardas, A. (2024). *Isdas: Companion package for book an introduction to spatial data analysis and statistics*. <https://github.com/paezha/isdas>
2. Paez, A., & Dias dos Santos, B. (2024). *Edashop: Resources for teaching a workshop on exploratory data analysis*. <https://github.com/paezha/edashop>
3. Páez, A., Jamal, S., & Desjardins, E. (2023). *envsocty3LT3: A course package for transportation geography*.

## Research

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Research related to teaching and learning.

### PEER REVIEWED

1. 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>
2. 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>
3. Whalen, K., & Páez, 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/teachlearningqu.7.1.5>

### WORK IN PROGRESS

1. Soukhov, A., & Páez, A. (2024). *Student perspectives on the use of reflection in a multidisciplinary statistics course* [Manuscript in preparation].
2. Páez, A. (2024). *An AI is haunting campus: A call for human-centered higher education* [Manuscript in preparation].
3. Desjardins, E., Jamal, Shaila, Boeing, G., Lovelace, R., & Páez, A. (2024). *Open educational resources in transport geography and planning: Development and student responses* [Manuscript in preparation].