

ROLANDO CAMPUSANO GÁRATE

Contact

Interests: Urban Economics, Entrepreneurship and Innovation, and Empirical Industrial Organization
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Citizenship: Chilean

Education

2015– ROTMAN SCHOOL OF MANAGEMENT, UNIVERSITY OF TORONTO
Ph.D., Economic Analysis and Policy
Committee: Nate Baum-Snow (Chair), Will Strange, April Franco, and Alberto Galasso

2011-12 FACULTY OF ECONOMICS AND BUSINESS, UNIVERSITY OF CHILE
M.A., Economic Analysis (with honors, best graduate student award)
Thesis: "Competition and Innovation: Heterogeneous Firms Evidence for Developing Countries"
Committee: Roberto Alvarez (Chair), Alejandro Micco, and Claudio Bravo-Ortega

2006-10 FACULTY OF ECONOMICS AND BUSINESS, UNIVERSITY OF CHILE
B.A., Economics (with honors)
Thesis: "Peer Effects on Entry Drugs Use: Evidence for Chilean Scholar Population" (in Spanish)
Advisor: Pablo Egaña del Sol

Work in Progress

"Startup Location, Local Spillovers and Neighborhood Sorting," *Job Market Paper*

Working Papers

"Delineating Neighborhoods using Location Choices"
"Occupations and the Substitutability of Computers and Workers," *Ph.D. Second Year Paper*

Academic Experience

2021– Ph.D. Student Fellow, Centre for Real Estate and Urban Economics, University of Toronto

2019–20 Research Affiliate, Statistics Canada

2018– Deemed Employee (equivalent to U.S. Census Special Sworn Status), Statistics Canada

2016–21 Research Assistant, Rotman School of Management, University of Toronto
Lu Han, Nate Baum-Snow, Will Strange, April Franco, Bernardo Blum, Joanne Oxley and Pamela Medina

2016–21 Teaching Assistant, Rotman School of Management, University of Toronto

2013-15 Lecturer of Intermediate Macroeconomics, Economics Department, University of Chile

2010-13 Research Assistant, University of Chile and Pontifical Catholic University of Chile
School of Psychology (2012-2013), INTELIS Centre (2010-2011), Health Administration Institute (2011),
Poverty Action Lab J-Pal LatAm (2010)

2009-12 Teaching Assistant, University of Chile

Professional Experience

2021– Economist, Statistics Canada

2020 Visiting Assistant Economist, Finance Canada

2012–15 Junior Economist, Economic Research Department, Central Bank of Chile

2012 Economic Consultant, Energy Efficiency Agency and the Economic Development Agency, Government of Chile

2007–09 Real Estate Sales Assistant, Prohabit Ltd.

Fellowships, Grants, and Awards

- 2021 TD Management Data and Analytics Lab Research Grant, University of Toronto
- 2019 BEAR Ph.D. Research Award, University of Toronto
- 2018 Conference Travel Grant, Canadian Economic Association
- 2018 CRESSE Canadian Fellow, University of Toronto
- 2015-20 Connaught International Scholarship, University of Toronto
- 2015 Director's Fellowship, Rotman School of Management, University of Toronto
- 2014 Nominated Young Economist at the 5th Lindau Nobel Laureate Meeting in Economic Sciences
- 2012 Best Graduate Student, M.A. in Economic Analysis, Economics Department, University of Chile
- 2011-12 Fellowship for Graduate Studies, Economics Department, University of Chile

Seminars and Conferences

- 2021 University of Toronto, Urban Economic Association *Elevator Pitch*, Canadian Real Estate and Urban Economics Conference, Statistics Canada, Finance Canada
- 2017-19 University of Toronto (x4), Statistics Canada (x2), Canadian Economic Association (x1)
- 2011-15 Chilean Economic Society (x2), University of Chile (x1), Globelics (x1), Central Bank of Chile (x2)

Pre-Doctoral Research

- "The Emergence and Functioning of Structural Intermediaries in Chile," with R. Álvarez and L. Klerkx. *Innovation and Development*, No. 5 (1), pp. 73-91, Jan. 2015.
- "Does Competition Spur Innovation in Developing Countries?," with R. Álvarez. Economics Department Working Papers Series No. 388, University of Chile, Jun. 2014.
- "Lessons on the Conflict Between Equivalence and Solidarity in the Chilean Health Insurance Market," with A. Uthoff and J.M. Sanchez. *CEPAL Review*, No.108, pp. 141-159. Dec. 2012.
- "Employment Generation, Firm Size, and Innovation in Chile," with R. Álvarez, J.M. Benavente, and C. Cuevas. IDB Publications No 54258, InterAmerican Development Bank. Oct. 2011. ([Media coverage in spanish](#))

Miscellaneous

- Language Spanish (*native*) and English (*fluent*)
- Software Stata, Python, R, GIS, Mathematica, MATLAB, Docker, SAS, SQL
- Service Representative, University of Toronto Graduate Student Union (2017-2019)
Co-President, Rotman Ph.D. Association (2016-2018)
Member, Rotman House Committee (2015)
Referee, Real Estate Economics (x1) and European Planning Studies (x2)
- Volunteer VP Finance, University of Toronto Road Racing Club (2017-2021)
Venue Support, 44th Toronto International Film Festival (2019)
Co-Founder, NGO "El Ayllu" (2009)
Construction Team, University of Chile Volunteering Group (2006-2009)
- Hobby Cycling, Hiking, Photography, Film, Do It Yourself (DIY) Projects

Academic References

Nathaniel Baum-Snow	William C. Strange	April Franco	Alberto Galasso
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Abstracts (*work in progress, visit my website for most updated version*)

Startup Location, Local Spillovers and Neighborhood Sorting

How critical is economic concentration for the success of startup firms? This paper uses data on the universe of firms in large Canadian cities to study this question at the level of city blocks and their surrounding neighborhoods. To account for sorting within blocks, I use a newly developed clustering algorithm to construct neighborhoods relevant for each industry within which sorting across blocks is conditionally random. To account for sorting across neighborhoods, I develop a model of neighborhood selection, where entrepreneurs choose neighborhoods based on expected startup outcomes and idiosyncratic preferences for location. Results show positive and economically significant effects of block average same-industry employment and revenue on startups' end-of-year employment, revenue, and survival rates. These effects are heterogeneous across industries and types of block-level economic activity.

Main skills used in this paper: Structural modeling (Roy model), Clustering methods (python: scikit-learn), Multi-class classification (python: pytorch), Propensity score stratification, GIS (python: geopandas and shapely), SAS/SQL, and Stata

Delineating Neighborhoods using Location Choices

Research on neighborhoods has relied on administrative definitions that do not coincide with agents' decision problems. This produces a spatial misalignment between administrative and "economic" boundaries that bias research findings and the policies designed around them. I propose a novel methodology to delineate neighborhoods using a machine learning algorithm that groups locations based on revealed preferences. I apply the methodology to Toronto's industrial and residential neighborhoods and show that they are not like each other and that they remarkably differ in size and shape from their administrative counterparts. In particular, economic neighborhoods tend to have an elliptical shape and to locate around major streets. Moreover, neighborhoods are different across industries or property types. These characteristics have implications for the study the effects of neighborhood segregation and concentration.

Main skills used in this paper: Clustering Methods (python: scikit-learn), Propensity score stratification, GIS (python: geopandas and shapely), and Stata

Occupations and the Substitutability of Computers and Workers

Using U.S. Census and Current Population Survey data, this paper estimates the elasticity of substitution between computer and not-computer labor across different occupations. Moreover, this paper also attempts to understand where occupations are located within the firm structure. Using a flexible nested CES framework and without making any assumptions about the substitutability of labor, results support the previous view that there exist a monotone relationship between routine intensity and the elasticity of substitution between computer and not-computer labor. Moreover, results also suggest that the nesting structure that fits better the data locates Managers and Professionals at the top of the organization, Low Skill services at the middle and Production and Clerical workers at the bottom.

Main skills used in this paper: Non-linear estimation of structural system of equations (Stata)