

Pablo Geraldo Bastías

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EDUCATION

University of California-Los Angeles (UCLA)

Expected 2022 Ph.D., Sociology
Expected 2022 M.S., Statistics
2019 M.A., Sociology

Universidad Católica de Chile (PUC)

2015 M.A., Sociology
2010 B.A., History

RESEARCH INTERESTS

Computational Social Science, Causal Inference, Graphical Models, Network Analysis, Machine Learning, Social Stratification and Inequality

PUBLICATIONS

- Forth Brand, J.E., Xu, J., Koch, B., and **Geraldo, P.**, “Uncovering Sociological Effect Heterogeneity Using Tree-Based Machine Learning.” *Sociological Methodology*
- 2020 **Geraldo, P.** & Brand, J.E., “Causal Inference.” *Oxford Bibliographies in Sociology*, Ed. Lynette Spillman. New York: Oxford University Press.
- 2019 Gonzalez, K., **Geraldo, P.**, Estay, M., & Franklin, C. “Solution-Focused Brief Therapy for Individuals With Alcohol Use Disorders in Chile.” *Research in Social Work Practice*, 29(1): 19-35
- 2018 **Geraldo, P.** “Secondary Schools’ Vocational Track and the Reproduction of Social Inequality.” *National Thesis Award: Thinking the Youth 2015*. Santiago, INJUV: 66-87 (in Spanish)
- 2018 Maldonado L., & **Geraldo P.** “Fixed Effects Regression and Effect Heterogeneity.” In: Giesselmann M., Golsch K., Lohmann H., Schmidt-Catran A. (eds) *Lebensbedingungen in Deutschland in der Längsschnittperspektive*. Springer VS, Wiesbaden: 301-314
- 2014 **Geraldo, P.** & Salinas, E. “Primary and Secondary Effects in the Choice of School Track.” *Proceedings of 8th Chilean Sociology Congress*. La Serena, Universidad Central (in Spanish)

- 2013 **Geraldo, P.** “The Crisis of Chilean Marxist Historiography.” *Proceeding of 5th International Congress in Philosophy and Theory of History*. Viña del Mar, UAI: 283-291 (in Spanish)
- 2012 **Geraldo, P.** “Catholic Church Members during Popular Unity Government.” *Simon Collier Seminar*. Santiago, History Department, Universidad Católica de Chile: 79-111 (in Spanish)

WORK IN PROGRESS

- “Building DAGs from the bottom-up: Using graphical models to assess empirical research” (draft)
- “Is there a credibility ladder? A discussion on the hierarchy of observational studies” (draft)
- “Tracking before Tracking? Academic Achievement and Expectations in Secondary Technical and Vocational Schools in Chile” (draft)
- “Effects of the Curricular Reform Postponing High School Tracking in Learning and Income. A Pseudo-cohort study using PIAAC data from Chile” (in preparation)
- “How Terrorism Affects Foreign Policy Views: Evidence from the 2015 Attack in Garissa, Kenya” (in preparation, with Chad Hazlett and Jeremy Horowitz)

HONORS & AWARDS

- 2019 **RC28 Aage B. Sørensen Conference Travel Award**
In recognition of good scholarship in stratification research
- 2015 **Thinking the Youth National Thesis Award**
First Place in Graduate Category. National Youth Institute (INJUV)
- 2011 **Simon Collier Monograph Historical Research Award**
Honorable mention. History Department, Catholic University of Chile
- 2010 **Jaime Eyzaguirre Academic Achievement Award**
Ranked 1st in B.A. class. History Department, Catholic University of Chile
- 2009 **Matrícula de Honor Academic Excellence Award**
- 2008 Distinguished admission (2007), and best academic performance (2008, 2009)
- 2007 History Department, Catholic University of Chile

FELLOWSHIPS & SCHOLARSHIPS

- 2020 **UCLA Graduate Summer Research Mentorship Program**
Research on causality and social science genomics (with Jacob Foster)
- 2019 **RSF Summer Institute in Social Science Genomics**
Two weeks training on the use of genomic data for social sciences
- 2018 **UCLA Graduate Summer Research Mentorship Program**
Research on education and causal inference (with Jennie E. Brand)
- 2018-2021 **National Agency for Research and Development (ANID)**
Complementary stipend for doctoral studies abroad (Becas Chile)

- 2017-2022 **UCLA Sociology Department**
Funding for doctoral studies: Fellowship and TA position
- 2013-2014 **National Commission for Scientific and Technological Research**
Full funding (tuition and stipend) for master studies in Chile (CONICYT)
- 2013-2014 **“Volcán Calbuco” Foundation in Chile**
Tuition Fellowship for master studies in Humanities and Social Sciences
- 2007-2010 **Catholic University of Chile**
Undergraduate full tuition coverage for academic excellence

PRESENTATIONS

- 2020 “Using Machine Learning to predict educational transitions.” *American Sociological Association*, San Francisco, CA, August [Roundtable, cancelled due to Covid-19]
- 2019 “Schools as Sorting Machines: The Case of Vocational Tracking in Chile.” *Population Association of America*, Austin, TX, April; *International Sociological Association, Research Committee on Social Stratification and Mobility (RC28)*, Princeton, NJ, August
- 2019 “A Network Approach to Career and Technical Education in Chile.” *Population Association of America*, Austin, TX, April [Poster session]
- 2016 “Using causal diagrams in social research.” *9th Chilean Congress of Sociology*, Universidad Católica de Talca, Talca, Chile, October
- 2015 “Impacts of High School Vocational Education in Chile.” *1st International Congress of Education and Poverty*, Villarrica, Chile, January
- 2014 “Primary and Secondary Effects of Vocational School Track in Chile.” *8th Chilean Congress of Sociology*, Universidad Central, La Serena, Chile, October
- 2011 “Representations of Social Conflict in Allende’s Socialist Chile.” *19th Conference of Chilean History*, Universidad Diego Portales, Santiago, Chile, November
- 2011 “The Crisis of Chilean Marxist Historiography.” *5th International Congress of Theory and Philosophy of History: Causality in History*, Universidad Adolfo Ibañez, Viña del Mar, Chile

RESEARCH EXPERIENCE

University of California Los Angeles April-September 2020
Position: Graduate Research Assistant
Schedule: Part time

- Research project with [Susan Perry](#) and [Jacob Foster](#), studying cultural and behavioral innovation among the *Lomas Barbudal* monkeys. The project involves developing methodological innovations in the estimation of repertoire size, using network analysis, unsupervised machine learning, matrix completion, and Bayesian modeling

University of California Los Angeles July-September 2019
Position: Graduate Research Assistant
Schedule: Full time

- Research project with [Jacob Foster](#), studying applications of Multi Agent Reinforcement Learning (MARL) to the Social Sciences in the context of sequential social dilemmas. The project included both a theoretical component and programming in Python

Center for Public Policy, Catholic University of Chile October 2016-September 2017

Position: Researcher and Project Coordinator

Schedule: Full time

- Leading a multidisciplinary team in the implementation of the [Labor Market Observatory for the Metropolitan Region of Chile](#). Funded by National Service of Training and Employment (SENCE) and the Society for Industrial Development (SOFOFA)
- Generate information of labor market outcomes at the occupation level (OIT-ISCO), based on household surveys, administrative records, and qualitative interviews
- Leading a team of researchers in the evaluation of the “Program for the Support and Coordination of High School Technical Education.” Funded by the Ministry of Education

Research Department, Agency for Quality in Education March 2015-September 2016

Position: Researcher

Schedule: Full time

- Quantitative analysis of educational data, including the elaboration of the public report of Chilean administrative census of students and national standardized tests
- Measuring achievement gaps based on socioeconomic status, gender, and educational tracks, using mixed effects models
- Observational evaluation of educational policies, including the selection mechanism of school principals, using *propensity score matching*, and *difference-in-difference*

History Department, Alberto Hurtado University of Chile March 2010-March 2013

Position: Research Assistant

Schedule: Partial time

- Archival research, “Political and conceptual history of Chilean Catholic Church (1960-1985).” Funded by the National Commission for Scientific and Technological Research
- Archival research, “Conceptual History of Catholic Church Human Rights Movement.” Funded by Alberto Hurtado University
- Biographical research, “Defenders of Human Rights in Chilean History.” Funded by the National Institute of Human Rights (INDH). PI: Marcos Fernández (PhD)

POLICY REPORTS (in Spanish)

I participated in the elaboration of the following policy reports. All were collective efforts and as such have institutional authorship ascribed.

2018 [“Current situation and critical aspects in the Chilean system of Technical and Vocational Education and Training.”](#) *Center for Public Policy, Catholic University of Chile*

- 2018 “Training, Skills, and Productivity. Proposals to improve Technical Education in Chile.” *Center for Public Policy*, Catholic University of Chile
- 2016 “Landscape of High School Vocational Education in Chile.” *Agency for Quality in Education*, Government of Chile
- 2016 “Effects of Public Schools’ Principals recruited by Public Competition.” *Agency for Quality in Education*, Government of Chile
- 2015 “Factors Associated to Academic Achievement and Social and Personal Development.” *Agency for Quality in Education*, Government of Chile
- 2015 “Initial Teacher Training in Chile: A Literature Review.” *Agency for Quality in Education*, Government of Chile

TEACHING

Adjunct Professor

Formation and Development of Modern Society (Sociology, PUC Chile, Fall 2017)
Quantitative Methodology (Government, Universidad de Talca, Chile, Fall 2017)

Teaching Assistant/Associate

UCLA

Introduction to Sociology Spring 2019 & Fall 2019
Introduction to Sociological Research Methods Spring 2020
Statistical and Computational Methods for Social Research Fall 2018/2020 & Winter 2019-2021

PUC, Chile

Causal Inference. Graduate Sociology Fall 2015-2016
Critical Theory. Undergraduate Philosophy Fall 2012
Philosophical Anthropology. Undergraduate Philosophy Fall 2012
Historiography. Undergraduate History Spring 2009/2010 & Fall 2011
Contemporary History. Undergraduate History Spring 2009/2010
20th Century Latin America. Undergraduate History Spring 2009/2010

Workshop Instructor

A Crash Course in Causal Inference (UCLA) Winter 2020, Summer 2020
Supervised Machine Learning for Social Sciences (UCLA) Summer 2018
Social Sciences Methodology (PUC Chile) Fall 2016
Academic Writing (PUC Chile) Fall 2016

SERVICE

Organizer: *Summer Institute in Computational Social Science-UCLA*, 2019, 2020, 2021
 Student coordinator, *Computational Sociology Working Group* 2019-2021
 Student coordinator, *Stratification, Inequality and Mobility Working Group* 2018-2020

Elected President, Catholic University Union of History Students
Volunteer Teacher of History in the Santiago's Public Prison

2010
2007, 2008

Reviewer for *American Journal of Sociology*, *Educational Management Administration & Leadership*,
AERA Open

OTHER SKILLS

General: Unix/OSX, Windows, L^AT_EX, markdown

Programming: Bash, R, Python, Stata

Languages: Spanish (native), English (fluent)