

Pablo Geraldo Bastías

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EDUCATION

University of California-Los Angeles (UCLA)

Expected 2023 Ph.D., Sociology
Dissertation: *Essays in Causality and Educational Inequality*
Committee: Jennie E. Brand (co-chair), Jacob G. Foster (co-chair),
Chad Hazlett, Natasha Quadlin
Field Exams: Computational Sociology, Social Stratification and Inequality

Expected 2023 M.S., Statistics
2019 M.A., Sociology

Universidad Católica de Chile (PUC)

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

PUBLICATIONS

Peer-reviewed

- 2021 Brand, J.E., Xu, J., Koch, B., and **Geraldo, P.**, "Uncovering Sociological Effect Heterogeneity Using Tree-Based Machine Learning." *Sociological Methodology*, 51(2): 189-223
- 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

Book Chapters

- 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

- 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

- “Tracking before Tracking? Academic Achievement and Expectations in Secondary Technical and Vocational Schools in Chile” [draft]
- “Building DAGs from the bottom-up: Moving beyond templates of empirical research” [draft]
- “Deep Learning of Potential Outcomes” (with Bernard Koch, Tim Sainburg, Song Jiang, Jacob Foster and Yizhou Sun) [draft]
- “Effects of the Curricular Reform Postponing High School Tracking in Learning and Income. A Pseudocohort study using PIAAC data from Chile” (in preparation)
- “How to detect behavioral innovations? New methods to disentangle sampling bias and new behaviors in Capuchin Monkeys” (in preparation, with Susan Perry and Jacob Foster)
- “How Terrorism Affects Foreign Policy Views: Evidence from the 2015 Attack in Garissa, Kenya” (in preparation, with Chad Hazlett and Jeremy Horowitz)

RESEARCH EXPERIENCE

University of California Los Angeles

April-September 2020

Position: Graduate Research Assistant

Schedule: Part time / Full 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.

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.

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*

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

- 2021 **UCLA Summer Mentored Research Fellowship**
Research on the use of graphical models for causal inference (with Jacob Foster)
- 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 (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

PRESENTATIONS

- 2021 “Moving beyond templates of empirical research.” *American Sociological Association*, Virtual Annual Meeting, Quantitative Methodology Session, August
- 2021 “Deep Learning of Potential outcomes.” *Population Association of America*, Virtual Annual Meeting, May
- 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

POLICY REPORTS (in Spanish)

I participated in the elaboration of the following policy reports. All were collective efforts and as such they 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

Lecturer

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

Teaching Assistant/Associate

UCLA

<i>Causality</i> . Graduate Statistics	Spring 2021
<i>Introduction to Sociology</i> . Undergraduate Sociology	Spring 2019 & Fall 2019
<i>Introduction to Sociological Research Methods</i> . Undergraduate Sociology	Spring 2020
<i>Statistical and Computational Methods for Social Research</i>	Fall 2018/2020 & Winter 2019-2021

PUC, Chile

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

Workshop Instructor

<i>A Crash Course in Causal Inference</i> (UCLA)	Winter 2020, Summer 2020/2021
<i>Supervised Machine Learning for Social Sciences</i> (UCLA)	Summer 2018

SERVICE

Organizer: <i>Summer Institute in Computational Social Science-UCLA</i> ,	2019, 2020, 2021
Student coordinator, <i>Computational Sociology Working Group</i>	2019-2021
Student coordinator, <i>Stratification, Inequality and Mobility Working Group</i>	2018-2020
Elected President, Catholic University Union of History Students	2010
Volunteer Teacher of History in the Santiago's Public Prison	2007, 2008

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

OTHER SKILLS

General: Unix/OSX, L^AT_EX, markdown, git/GitHub

Programming:

Bash: essential

R: advanced (wrangling, visualization, modeling)

Python: intermediate (modeling, scikit-learn)

Stata: intermediate (wrangling, modeling)

Languages: Spanish (native), English (fluent)

REFERENCES

Jennie E. Brand

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