

DANIELA LUENGO-ARAVENA

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EDUCATION

PhD in Educational Policy

Feb 2022

Warner School of Education, University of Rochester

Thesis: “What effects do peers have on K-12 students’ academic outcomes”

Supervisor: Dr. Karen DeAngelis.

Committee Members: Dr. Alejandra Mizala, Dr. Samantha Daley.

MA in Economics

Jul 2013

Department of Economics, Universidad de Chile

Thesis: “Evaluation of methods of correction for omitted data in the context of inequality of opportunities”

Supervisor: Dr. Esteban Puentes, Dr. Dante Contreras.

BA in Economics

Dec 2009

Department of Economics, Universidad de Chile

Thesis: “An analysis of the inequality of income in Chile in the last 50 years”

Supervisor: Dr. Esteban Puentes.

PROFESSIONAL EXPERIENCE

Researcher

Jun 2022 - Present

Center for Advanced Research in Education (CIAE), Universidad de Chile

Supervisor: Dr. Patricio Felmer

- Goal: Study whether and how the methodology of collaborative problem solving in the classroom improve 21st century skills development and learning opportunities for all students.
- Responsibilities: Supporting study design, data collection, and data analysis. Conducting reviews of the literature related to collaborative problem solving, peer-to-peer learning partnerships, and skills for the 21st century. Working with large and complex datasets. Analyzing, and interpreting quantitative and qualitative data. Writing-up findings in research articles for publication in peer-reviewed academic journals.

Consultant

May 2021 - May 2022

Inter-American Development Bank (IDB)

Supervisors: Dr. Graciana Rucci, Dr. María Fernanda Prada

- Goal: Provide technical assistance and analytical support to contribute to strengthen skills for work development policies, and technical/vocational education and professional training (TVET) programs.
- Responsibilities: Supporting project teams in the design, implementation, and monitoring of programs in TVET. Supporting on the design and implementation of impact evaluations in a diverse portfolio of projects, working with researchers and implementers to identify key issues to be addressed to obtain rigorous results, designing outcome indicators, data sources, sampling design, sample sizes, power calculations, field procedures, and managing timelines and budget. Collaborating with private and public sector, making fruitful alliances and coordinate with different areas of the IDB Group. Assisting specialists and policymakers with data presentations, analyses, and drafting communication products -blogs, policy briefs, technical notes- to disseminate research findings.

PROFESSIONAL EXPERIENCE

Research Assistant

Ago 2015 - Apr 2021

University of Rochester, Warner School of Education

Supervisor: Dr. Kara Finnigan, Dr. Alan Daly

- Goal: Examine diffusion of research evidence among networks of educational leaders in districts under sanction policies, through case studies and Social Network Analysis (SNA) techniques.
- Responsibilities: Conducting reviews of the literature related to SNA applied to the education field, with an emphasis on network and diffusion theories. Handling large and complex datasets. Analyzing and interpreting social network data and econometric models. Writing-up findings in research articles for publication in peer-reviewed academic journals.

Research Consultant

Jun 2017 - Apr 2021

University of Rochester, Quantitative Consulting Services

Supervisor: Dr. Samantha Daley

- Goal: Guide and train graduate students in applying research quantitative methods and data analyses.
- Responsibilities: Scheduling weekly on-line or in-person appointments with graduate students to guide them in survey design, data manipulation and cleaning, formatting, and coding. Designing online material focused on quantitative analysis, including topics such as regression analysis, use of statistical software, and impact evaluation strategies and techniques. This material is intended to be an extra resource for Warner students needing quantitative support. Planning and conducting presentations or workshops about quantitative research techniques.

Research Assistant (Internship)

Jun 2016 - Dec 2016

Common Grounds, NY; Supervisor: Howard Konar

- Goal: Review and revise information contained in the Common Grounds policy document, which examines the main US public policies in the areas of education, health, civil rights, and immigration.
- Responsibilities: Verifying facts and data detailed in the document. Updating data, evidence and information as needed. Conducting research on certain aspects of a public policy to strengthen the main arguments of the document.

Program Evaluator (Internship)

Jun 2015 - Dec 2015

Hillside Work Scholarship Connection (HW-SC), NY

Supervisor: Dr. Karen DeAngelis

- Goal: Conduct an external and independent evaluation of the program HW-SC from Hillside Family of Agencies. This program delivers academic and practical skills to minority youth in order to increase graduation rates.
- Responsibilities: Managing large datasets. Conducting a cost-benefit analysis to estimate the return of the investment of the HW-SC program. Generating a final report and presenting the results.

PROFESSIONAL EXPERIENCE

Researcher (Internship)

Sep 2013 - Dec 2013

Department of Education, Chile

Supervisor: Emilia Arancibia

- Goal: Complete and revise the Compendium of Educational Program Evaluations. This document systematizes the design and results of all the evaluations of educational programs from the Department of Education between the years 2000-2010.
- Responsibilities: Reviewing, organizing, and extracting key information of the evaluations of the educational programs including design, methodology, and results. Classifying the evaluations by the quality of their methodology based on the standards of the What Works Clearinghouse (WWC). Generating descriptive statistics regarding the type and quality of the evaluations.

Researcher

Mar 2012 - Oct 2013

National Observatory on Drugs and Alcohol Consumption, Chile

Supervisor: Dr. Álvaro Castillo-Carniglia

- Goal: Conduct a longitudinal study, representative at the national level, about the perceptions and use of drugs and alcohol. Estimate and analyze the tendencies of the use of drugs and alcohol at the national and regional level.
- Responsibilities: Supporting the sample design of the study and the process of data collection in certain regions of the country. Generating the official statistics of alcohol and drug consumption in Chile at the national and regional level. Handling complex datasets, analyzing and interpreting results. Writing-up for publication in the National Observatory of Drugs and Alcohol Consumption and in academic journals.

TEACHING EXPERIENCE

Instructor

*Warner School of Education
University of Rochester*

Quantitative Research Methods	Spring 2020
Economics of Education	Fall 2019
Quantitative Research Methods	Summer 2019
Quantitative Research Methods	Spring 2019
Policy Analysis in Education	Fall 2018
Quantitative Research Methods	Summer 2018
Quantitative Research Methods	Spring 2018
Economics of Education	Fall 2017
Quantitative Research Methods	Summer 2017

Teaching Assistant

*Department of Economics
Universidad de Chile*

Econometrics I	Spring 2009
Econometrics I	Fall 2008
Econometrics I	Spring 2008

Teaching Assistant

*Department of Economics
Universidad Diego Portales*

Econometrics II	Spring 2009
Macroeconomics II	Spring 2009

FIELDS OF INTEREST

Education, Economics, Health, Analysis and Evaluation of Public Policies
Public Schools, Educational Leadership, Urban Reform
Econometrics, Microeconometrics, Network Analysis

SKILLS

Programs	Proficient in Python, <i>R</i> , Stata, NVivo, Ucinet, \LaTeX
Languages	Spanish (Native), English (Fluent), Portuguese (Intermediate)

SCHOLARSHIPS AND HONORS

Fulbright Scholar 2015-2020, University of Rochester
Scandling Scholar 2016-2020, University of Rochester
Steering Committee Leader of the Association of Latin American Students, University of Rochester
Joseph Grünwald Scholar 2010-2011, Graduate Economics Department, Universidad de Chile
Dean's Scholarship 2006-2009, Undergraduate Economics Department, Universidad de Chile
Graduated with Distinction Honor from the Undergraduate and Graduate programs, Economics Department, Universidad de Chile

RESEARCH AND PUBLICATIONS

- Luengo-Aravena, D., Cabello, P., Rodriguez-Milhomens, B. (submitted). Online collaborative problem-solving as a tangible outcome of digital skills in technical and vocational higher education.
- Sevilla, M. P., Luengo-Aravena, D., Madero, Cristóbal. (submitted). Profiles of VET teachers transitioning from industry to teaching in high schools: The case of Chile.
- Sevilla, M. P., Luengo-Aravena, D., Farías, M. (submitted). Gender gaps in STEM pathways: Effectiveness of upper-secondary tracks in access and persistence in higher education STEM programs.
- Rucci, G., Prada, M. F., & Luengo-Aravena, D. (2022). Why invest in skills for green jobs?. *IDB Blog* (in Spanish).
- Rucci, G., Prada, M. F., & Luengo-Aravena, D. (2022). Skills for work: LAC innovative initiatives from the TVET Multi Donor Trust Fund. *IDB Blog*.
- Sevilla, M. P., Farías, M., Luengo-Aravena, D. (2021). Patterns and persistence of educational mismatch: A trajectory approach using Chilean panel data. *Social Sciences*, 10(9), 33.
- Finnigan, K. S., Luengo-Aravena, D. E., & Garrison, K. M. (2018). Social network analysis methods in educational policy research . In *Complementary research methods for educational leadership and policy studies* (pp. 231-252). Bloomington, IN: Palgrave Macmillan.
- Luengo-Aravena, D. E., & Dang, L. (2018). Student-teacher gender effects: Self-esteem and school satisfaction in Math and Science. Paper presented at the annual meeting of the World Education Research Association (WERA), Cape Town, South Africa.
- Finnigan, K. S., Daly, A., & Luengo-Aravena, D. (2015). A tale of two districts: The importance of reciprocity in urban education reform. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
- DeAngelis, K., BaileyShea, C., & Luengo-Aravena, D. E. (2015). The Hillside Work-Scholarship Connection benefit-cost ratio analysis. Published by Hillside Family of Agencies.
- Luengo-Aravena, D. E. (2014). Social opinion and regular consumption of marijuana in Chile. Published by the Chilean National Observatory on Drugs and Alcohol (in Spanish).
- Soto-Brandt, G. & Luengo-Aravena, D. E. (2015). Factors related to the therapeutic discharge of patients treated for drug consumption in Chile. Published by the Chilean National Observatory of Drugs and Alcohol (in Spanish).
- Luengo-Aravena, D. E. (2014). Youth orchestras as a protective factor from drug use. Published by the Chilean National Observatory on Drugs and Alcohol (in Spanish).
- Luengo-Aravena, D. E. (2014). Is marijuana a gateway drug? Published by the Chilean National Observatory on Drugs and Alcohol (in Spanish).
- Castillo-Carniglia, Á., Pizarro, E., Luengo-Aravena, D., & Soto-Brandt, G. (2014). Alcohol use and self-reported violent events in Chile. *Adicciones*, 26(1), 46-53.
- National Observatory of Drugs and Alcohol. Tenth national study on drugs and alcohol consumption in general population. (2013). Published by the Chilean National Observatory on Drugs and Alcohol (in Spanish).
- National Observatory of Drugs and Alcohol. Ninth national study on drugs and alcohol consumption in school population. (2012). Published by the Chilean National Observatory on Drugs and Alcohol (in Spanish).

Cárcamo, J., Torres, J., Luengo-Aravena, D. E., Pizarro, E., Montaña, R., & Castillo-Carniglia, A. (2012).
Drug abuse in the Chilean arrested population. Published by the Chilean National Observatory of
Drugs and Alcohol (in Spanish).