

ANDRES Y. CALDERON-AMAYA

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WORK EXPERIENCE

Research Fellow, Institutions for Development Sector

Inter-American Development Bank (IDB), Washington, DC, 2022-Present

- Evaluate the correlation between regulation and productivity through instrumental variables analysis using firm-level data from 155 countries and collaborate with a team of over 30 researchers for the IDB's flagship report about competition in Latin America and the Caribbean
- Examine the prevalence of different hiring practices in the Colombian civil service and its relationship with government performance by processing microdata from procurement systems and household surveys for a co-designed research project
- Execute causal inference analysis and explore demographic heterogeneous impacts of experimental interventions using regression analysis, producing the main analytical inputs for three academic papers on fiscal policy preferences

Research Assistant (Young Researcher Fellow), Department of Economics

Universidad del Rosario, Bogotá (Colombia), 2020-2022

- Digitized individual and aggregated data on victims of the Paraguayan dictatorship by creating an OCR-based program, providing key microdata for an academic article published in the Economic Journal
- Generated a panel with performance indicators for the universe of Colombian schools by gathering and aggregating administrative data of standardized tests results at the student level, contributing to the production of a research paper on the development impacts of demining
- Created a dataset of connections between politicians and businesspersons through the web scraping of political donations data and the application of string-distance matching methods

Research Assistant (Intern), Center for Agricultural Economics Studies

Banco de la República (Central Bank of Colombia), Bucaramanga (Colombia), 2020

- Investigated the relationship between climate shocks, employment, and wages in rural areas by processing industrial relations administrative microdata of about 20 million observations per month, generating a panel of municipalities with labor market indicators from 2018 to 2020
- Monitored agricultural prices in Colombia during the pandemic using weekly microdata from wholesale stores from 2018 to 2020

RESEARCH PROJECTS

“Retail Expansion and Local Labor Markets: Evidence from Hard Discount Stores”

Co-authored with Lukas Delgado-Prieto and Andrea Otero-Cortés, 2025

- Analyzed the impact of retailers on labor informality at the municipal level using quasi-experimental causal inference methods and data sourced through the web scraping and geolocation of retail stores, resulting in an article featured on the Working Papers’ series of the Central Bank of Colombia

“The Impact of Discretionary Hiring on Bureaucrats’ Corruption Perceptions, Satisfaction, and the Mishandling of Public Resources” (master’s thesis), 2023

- Evaluated the effect of hiring public employees through noncompetitive and short-term contracts on corruption perceptions and the mishandling of public resources by refining a government sanctions database and assembling civil servants’ microdata from household and specialized surveys

EDUCATION

Master’s degree in Economics, Universidad del Rosario, Colombia, 2023

Distinguished thesis, Young Researcher Fellowship

Bachelor’s degree in Economics, Universidad Industrial de Santander, Colombia, 2020

Cum laude, distinguished student (dean’s list), 2017 and 2018

OTHER RELEVANT COURSEWORK

Big data and machine learning applied to real estate, Universidad de los Andes, Colombia, 2023

Academic exchange, Université du Québec à Montréal, Canada, 2019

SKILLS

Languages: Spanish (native), English (fluent), French (fluent), Portuguese (intermediate)

Programming: R (advanced), Python (intermediate)

Software: Stata (advanced), Latex (advanced), QGIS (intermediate), Github (intermediate)