ANDRES F. RENGIFO-JARAMILLO

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INTERESTS

I am an Economist interested in applied econometrics, labor economics, and political economy.

EDUCATION

Master in Economics, Universidad de los Andes   2020-2022

- **Relevant Coursework:** Advanced Econometrics, Advanced Microeconomics I and II, Advanced Macroeconomics I and II, Big Data and Machine Learning for Applied Economics.
- **GPA**: Original Scale 4.71/5.
- **Master Thesis:** Commodity Price Shocks, Factor Intensity and Non-primary Production Growth: Evidence from Colombia[Uniandes Repository] [Latest Version]

BA., in Economics (cum laude), Universidad del Valle   2014 - 2019

- **Bachelor Thesis:** Production Functions, Heterogeneity and Dispersion of Productivity [PDF-In Spanish]
- **GPA**: Original Scale 4.57/5.

SKILLS

Code Skills	Stata (Advanced), R (intermediate) Python (Advanced), Q-gis (Beginner)
Code Examples:	Stata , R, Python
Languages:	Spanish (native), English (Fluent).
Tools:	GitHub, Git, Latex, Quarto.

EXPERIENCE

Independent Work   Apr 2023 - Present

I have independently worked on research projects using labor survey data to study topics in labor economics and migration. In particular, I have implemented causal inference methods and applied machine learning models (e.g., random forests and logistic regression) to assess the impact of migration on labor market outcomes. For these projects, I used R and Stata for data processing, modeling, and visualization. Additionally, I have worked on a project collecting and processing cross-country data to better understand the growth patterns across different countries, applying machine learning techniques.

Research Assistant   Jun 2023 - Jul 2025
Harvard Business School.   *Remote*

I assisted in several research projects using firms' administrative data to conduct econometric analysis. Many of them are still ongoing. This experience has allowed me to develop the knowledge and intuition about how to apply econometric and causal inference techniques to answer interesting questions.

- I assist the research project *Training Between firms* [PDF].

- I assist the research project *How Do You Find a Good Manager?* [PDF]
- I also worked with data from firms in the insurance sector, a multinational automobile manufacturer, a software solution company, and a food distributor company.
- I have learned how to work in a collaborative environment, taking care of good practices for reproducibility and constructing clear data workflows.

Teaching Assistant   Jan 2024- Dec 2024
Business School, Universidad de los Andes   *Bogotá, Col*

- I was teaching assistant in charge of preparing and teaching machine learning and data processing techniques in R to the students of the course Big Data and Machine Learning for Economist in Universidad de los Andes.3 Taught 80 master's students how to apply machine learning in R.

Research Assistant   Jun 2022 - Jul 2023
Business School, Universidad de los Andes: Giro-Zero Project   *Bogotá, Colombia*

I work on collecting and analyzing data related to Road Freight Transport in Colombia and around the world, mainly using Python and Stata, to inform policy makers and stakeholders about opportunities to reduce CO2 emissions.

- I managed, cleaned, and processed spatial and non-spatial data to create informs and reports for stakeholders and companies in the road freight transport sector.
- I assist on the elaboration of the research project *A toolkit for setting and Evaluating Price Floors* [PDF].
- **Output:** I co-authored a market study report about the electric truck market in Colombia. I cleaned and processed truck registration administrative data to determine trends in electric truck adoption. See the report here
- **Output:** I co-authored a report on incentive schemes around the world. In this research, we documented the incentive schemes for several countries and I processed the data available about the expenditure on such incentives. See the report here.

Full Time Research Assistant   Nov 2021- Dec 2021
Business School, Universidad de los Andes   *Bogotá, Col*

- I was responsible for identifying appropriate research methods given data constrains and the institutional scenario in a project that examined the impact of students' backgrounds on financial literacy in the context of Bogotá, Colombia.

Teaching Assistant   Aug 2020 - Jun 2022
Universidad de los Andes   *Bogotá, Col*

- I was an assistant professor for the undergraduate course in Economic History of Colombia.
- I provide feedback to students on their work and offering additional support as needed and help to evaluating student performance through assignments.

Research Assistant   Jun- Dec 2018
Banco de la Republica (Central Bank of Colombia)   *Cali, Col*

- Research assistant working with Camila Casas in projects related to empirical Industrial Organization
- Data processing in Stata and R.

Teaching Assistant   Jan 2016 - Dec 2019
Universidad del Valle   *Cali, Col*

- Teacher assistant in Undergraduate Microeconomics III: general equilibrium.
- Teacher assistant in Undergraduate Microeconomics IV: Imperfect Competition.
- Economic Methodology.

RESEARCH-WORKING PAPERS

Commodity Price Shocks, Factor Intensity, and Non-primary Production Growth: Evidence from Colombia In this paper, I investigate the impact of changes in commodity prices on non-primary industry production. I construct a straightforward multisectoral model that generates various hypotheses. Subsequently, I test these hypotheses using data from Colombia. My findings suggest that to comprehend the repercussions of commodity price fluctuations on other economic sectors, it is crucial to take into account the technological methods employed in production (i.e factor intensity) and the level of openness in industrial sectors [Latest Version]

Boosted Migration: The Effect of Venezuelan Exodus on Low-Wage Native Employees This paper examines the short-run labor market effects of Venezuelan migration on low-wage Colombian workers following the 2016 reopening of the border between the two countries. Using nationally representative household survey data from 2012 to 2019 and a machine learning model to classify workers by their predicted probability of being low-wage, I implement a triple-differences (DDD) strategy to estimate causal impacts across cities with varying levels of migrant exposure. The main finding is that, although migration had no significant effects on employment formality, contract type, or self-employment, it did lead to a decline in log wages among low-wage natives in high-migration cities. **Draft available upon request**

SCHOLARSHIPS AND AWARDS

- Second-best master thesis for the year 2023. Universidad de los Andes. See institutional post in X (Twitter)
- Francisco Pizano de Brigard Scholarship (2020-2022): Universidad de los Andes.
- IX Economic Debates Tournament -Category B- Colombian Pacific Region (2017): First Place.
- First National Economic Debate (2017): Second Place
- Regional Economics Olympics- Colombian Pacific Region (2018): First place.
- National Economics Olympics (2018): Third Place.

PROJECTS

- **Code Resources.** code in R and Python to download data that I think is useful. Link here.