

ANDRÉS FELIPE CAMACHO

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EDUCATION

The University of Chicago, Harris School of Public Policy

Master of Science in Computational Analysis and Public Policy

Chicago, IL

Expected June 2026

Relevant coursework: Advanced Statistics, Computer Science with Applications, Databases, Machine Learning

Universidad de los Andes

Master of Science in Economics

Bogotá, Colombia

October 2017

Universidad de los Andes

Bachelor of Engineering in Industrial Engineering

Bachelor of Arts in Economics

Bogotá, Colombia

July 2018

October 2015

SKILLS

- Technical Skills: Python, PySpark, R, AWS, Google Cloud Storage, GEE, SQL, ArcGIS, Stata, LaTeX, MS Office Suite
- Spoken languages: English (IELTS 8/9), Spanish (Native)

EXPERIENCE

World Bank

Senior Spatial Consultant – Human Development (GGHVP) Unit

Washington D.C.

May 2024 – September 2024

- Analyzed georeferenced datasets for more than 20 countries at the cluster level, integrating 1km x 1km high-resolution raster and census data (250+ GB) to generate insights that shaped the scope of the neighborhood chapter in the Human Capital report
- Summarized 4,800+ data points across 148 countries and standardized 15 databases on human capital variables, enabling accurate cross-country and neighborhood-level comparisons, which defined the project's research framework
- Created 10 detailed static maps and 2 interactive maps using Python and ArcGIS, visualizing human capital trends across thousands of neighborhoods, counties, and regions over 10 countries, facilitating project's leads to draw spatial comparisons

Inter-American Development Bank

PEC Consultant

Bogotá, Colombia

May 2023 – September 2024

- Planned detailed activities for 3 research projects using Gantt diagrams, ensuring completion ahead of deadlines to maintain timely delivery of the final drafts
- Wrote 4 research documents on climate change, child development, and women's access to credit and housing, developing robust identification strategies and performing data and econometric analysis to inform IDB's evidence-based policy agenda
- Constructed data pipelines to process and analyze 9km x 9km high-resolution satellite imagery of global monthly temperature and precipitation over 10 years, spatially joining these datasets to georeferenced surveys to define data strategy for 2 research papers

Colombian Institute for the Evaluation of Education

Data Advisor to the Director

Bogotá, Colombia

October 2022 – January 2024

- Created the institute's Analytics and Innovation Center, establishing a data-driven framework that enhanced decision-making processes across the evaluation and operations offices and bridged data to stakeholders in the national evaluation system
- Leveraged quantitative analyses to translate complex data into actionable business recommendations and evidence-based policy insights, driving technological improvements in the institute's value chains and overall operations strategy
- Led strategic planning and coordination to integrate analytics workflows and build scalable data pipelines in the AWS environment, creating 5 dashboards, deploying 2 applications pilots, and producing 4 databases containing 20 million+ student test records

Policy and Strategy Office, Office of the Attorney General of Colombia

Data Scientist

Bogotá, Colombia

October 2018 – October 2022

- Developed and implemented 2 machine-learning-based predictive models to assist pretrial incarceration decisions, creating data-driven tools aimed to improve decision-making accuracy and efficiency by 30%

- Performed extensive data cleaning and analysis on large, complex databases, enabling streamlined automated reporting, data analysis, and optimizing caseload efficiency for prosecutors through bagging of ML models on case success prediction
- Designed and applied quantitative methodologies for 5 public policy evaluations, 10 policy memos, and several insights on critical issues such as domestic violence, protection of social leaders, ex-combatant reintegration, juvenile crime, and surveillance cameras

CEDE & CESED Research Centers, Universidad de los Andes

Research Assistant

Bogotá, Colombia

January 2013 – September 2018

- Led spatial analysis, data management, and econometric modeling for 5 research projects using Stata and ArcGIS, supporting 5 research documents with impact evaluation models and policy recommendations on education, crime, incarceration, and conflict
- Calculated economic efficiency of 280 Colombian higher education institutions using SFA and DEA models informing Ministry of Education policies on outcomes efficiency and elaboration of a book summarizing findings
- Conducted data analysis of a report on managing prison overcrowding based on re-offending risk and assisted with data management for a doctoral thesis on prison conditions and recidivism
- Performed spatial data analysis with raster data for a paper on state-building and contemporary conflict in Sub-Saharan Africa
- Standardized and analyzed security, victimization, and transport quality surveys to explore statistical relationships between transportation systems and crime in Bogotá, providing actionable insights to the Commerce Unit of Bogotá

TEACHING EXPERIENCE

Economics Department, Universidad de los Andes

Lecturer, Spatial Data Analysis in ArcGIS

Bogotá, Colombia

January 2016 – July 2024

- Designed and founded this class to teach undergraduate and graduate students practical applications of spatial analysis tools, equipping them to address real-world problems and enhance data-driven storytelling

Lecturer, Spatial Data Analysis and Applications in Python

July 2022 – July 2024

Teaching Assistant

January 2016 – May 2024

- Masters: Crime Economics, Micro-econometrics, Impact Evaluation, Data Analysis Techniques, Quantitative Methods
- Undergraduate: Intermediate Economics, Introductory Econometrics

AWARDS AND ACKNOWLEDGEMENTS

- Finalist, 7th MIT Policy Hackathon, recognized for outstanding performance in the Criminal Justice Challenge (2024)
- Nominee, Juan Luis Londoño Prize for Best Master's Thesis in Economics (2017)
- Recipient, Full Scholarship for a B.A in Economics, to the highest scores on the National Standardized Test in Colombia (2011)

PUBLICATIONS

- Ham, A., Maldonado, D., Weintraub, M., **Camacho, A.**, Gualtero, D. (2021) Reducing Alcohol-Related Violence with Bartenders: A Behavioral Field Experiment. *Journal of Policy Analysis and Management*. Available [here](#).
- Master's Thesis: **Camacho, A.** (2017) Forced Migration Effects on Trust and Attitudes Toward Immigrants in Destination Countries: Evidence from the Refugee Crisis in Europe. *CEDE Document N° 50-2017*. Available [here](#).
- Working paper: Using Artificial Intelligence in the Request of Pretrial Measures: approaching the Uncertainty in Recidivism Risk (With Daniel Mejía). The latest version is available [here](#).