

ANDRÉS FELIPE CAMACHO

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EDUCATION

The University of Chicago

Master of Science in Computational Analysis and Public Policy

Chicago, IL

June 2026 (Expected)

Relevant Coursework: Advanced Statistics, Computer Science with Applications, Cloud Computing, 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

Bogotá, Colombia

July 2018

Bachelor of Arts in Economics

October 2015

SKILLS

Technical Languages: Python, R, SQL. **Libraries/Frameworks:** PyTorch, Polars, ChromaDB, D3, folium, KeplerGL, Maplibre GL, Vega-Altair. **Software:** AWS CLI, Google Earth Engine, Stata, QGIS, ArcGIS, Ms Office Suite, Linux

Languages: English (IELTS 8/9), Spanish (Native)

PROFESSIONAL EXPERIENCE

Mansueto Institute for Urban Innovation

Chicago, IL

Data Science Fellow – Local Data Journalism Initiative

June 2025 – August 2025

- Designed and implemented an end-to-end data pipeline to process 27,000+ scanned documents, leveraging OCR (Tesseract) and large language models (LLMs) in Python to extract and classify named people and events
- Built and analyzed a structured database using Polars for efficient data wrangling and Vega-Altair for exploratory visualizations, contributing to five investigative journalism pieces on underreported incidents in the Illinois prison system

World Bank

Washington, D.C.

Senior Spatial Consultant – Human Development (GGHVP) Unit

May 2024 – September 2024

- Generated a summary statistics report with georeferenced datasets for more than 20 countries at the cluster level, merging 1km x 1km high-resolution raster and census data (250+ GB), which shaped the scope of a chapter for 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 the project's leads to draw spatial comparisons

Inter-American Development Bank

Bogotá, Colombia

PEC Consultant

May 2023 – September 2024

- 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 the data strategy for 2 research papers

Colombian Institute for the Evaluation of Education

Bogotá, Colombia

Lead Data Advisor

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
- Led strategic planning and coordination to integrate analytics workflows and build scalable data pipelines in the AWS environment, deploying 5 dashboards, launching 2 applications, and building 4 relational databases containing 20 million+ student test records

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

Bogotá, Colombia

Data Scientist

October 2018 – October 2022

- Developed 2 ML-based predictive models and automated reporting to support prosecutor's pretrial decisions, projecting a 30% improvement in accuracy and efficiency and minimizing unnecessary detentions
- 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 recidivism
- Calculated the economic efficiency of 280 Colombian higher education institutions using SFA and DEA models, informing the Ministry of Education policies on outcomes efficiency, and elaboration of a book summarizing findings

TEACHING EXPERIENCE

University of Chicago

Teaching Assistant: Computer Science with Applications I and II, Data Science Clinic

Harris Tutor for students: Python, Stata, R

Chicago, IL

September 2025 – Present

January 2025 – May 2025

Economics Department, Universidad de los Andes

Founder, Spatial Data Analysis Workshop in ArcGIS

Lecturer, Spatial Data Analysis and Applications in Python

Teaching Assistant

Bogotá, Colombia

January 2016 – July 2024

July 2022 – July 2024

January 2016 – May 2024

- Graduate (Ms.): Crime Economics, Micro-econometrics, Impact Evaluation, Data Analysis Techniques, Quantitative Methods
- Undergraduate: Introductory Econometrics, Intermediate Economics

AWARDS AND ACKNOWLEDGEMENTS

- Finalist, 7th MIT Policy Hackathon, recognized for outstanding performance in the Criminal Justice Challenge (2024)
- Recipient, Full Scholarship for a B.A in Economics, to the highest scores on the National Standardized Test in Colombia (2011)

PUBLICATIONS

- Cuartas, J., & **Camacho, A.** (2025). High temperatures and violent child punishment at home: Evidence from six countries. *Psychology of Violence*, 15(6), 670–681. Available [here](#)
- Cuartas, J., Balza, L. H., **Camacho, A.**, & Gómez-Parra, N. (2025). Ambient Heat and Early Childhood Development: A Cross-National Analysis. *Journal of Child Psychology and Psychiatry*
- 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](#)
- **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](#)