Andrés Castro Araújo

Social Scientist, Statistician

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Education

MASTER'S DEGREE | Aug '17 - Feb '19
Quantitative Methods in the Social Sciences
Columbia University, New York, USA
GPA: 3.9

BACHELOR'S DEGREE | Aug '09 - Jun '15
Economics
University of Rosario, Bogotá, Colombia

BACHELOR'S DEGREE | Aug '09 - Jun '16
Sociology
University of Rosario, Bogotá, Colombia

Technical Skills

PROGRAMMING

- R
- Stan
- SQL
- Python

DATA ANALYSIS

- Regression Modeling
- Bayesian Statistics
- Data Visualization
- Social Network Analysis
- Causal Inference
- Machine Learning
- Text Mining

Other

Government Scholarship | Jun '17
Pasaporte a la Ciencia, COLCIENCIAS

Data Science Consultant | Oct '18
Obama Scholars Bootcamp

Experience

RESEARCH ASSISTANT | Aug '17 - Dec '17
Columbia University

- Collected, analyzed, and visualized publicly available data on corruption practices in Latin America. Supervised by professor Paul Lagunes.

RESEARCHER | Oct '15 - Jul '17
Center for Law, Justice, and Society - Dejusticia

- Conducted research on fiscal policy, taxes, and their role towards the advancement of socio-economic rights.
- Managed a large report on tax exemptions and inequality in Colombia, to be published in 2019.
- Wrote policy briefs that assessed the compliance of different state parties to the United Nation's International Covenant on ESCRs.
- Participated in various litigations strategies dealing with tax reform.

ADJUNCT LECTURER | Jan '16 - Jun '17
University of Rosario

Courses taught:

- Introduction to Statistics
- Economy & Society

PUBLIC POLICY INTERN | Jun '14 - Dec '14
Department of National Planning, Office of Public Policy Evaluations (DSEPP)

- Assisted in a variety of public policy evaluations, using common causal inference techniques such as randomized controlled trials, matching on propensity scores, differences-in-differences, and instrumental variables.

Ongoing Projects

Political Polarization in Twitter Networks

- This project is an extension of my master's thesis at Columbia University. It uses Bayesian Ideal Point Estimation models to measure the degree of political polarization among Twitter users in the country of Colombia.

  These methods are closely related to matrix factorization techniques used in recommender systems.

Network Properties of Tax Havens

- This project exploits the perceived inconsistencies of foreign direct investment (FDI) data to identify anomalous transactions between countries, rather than just attempting to classify individual countries as tax havens or not.