



# 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.

## Publications

Uprimny, R., Chaparro H., S. & Castro A., A. (2019) "Bridging the Gap: The Evolving Doctrine on ESCR and Maximum Available Resources". In: The Future of Economic and Social Rights, Cambridge University Press

Castro A., A. (forthcoming) "The power in numbers: Statistical visibility and Inequality in Colombia and Dominican Republic"\*, Siglo XXI Editores

Castro A., A. & Uprimny, R. (forthcoming) "Privileged: Tax exemptions and Human Rights in Colombia"\*, Dejusticia and International Budget Partnership

Chaparro H., S. & Castro, A. (2017) "Fiscal policy and Human Rights in Colombia: Towards an integrated approach"\*, Revista de la Defensa Pública de la Ciudad de Buenos Aires, p. 175-194