

# Mireia Triguero Roura

✉ mt3197@columbia.edu  
🐙 github.com/mpnyka  
🌐 linkedin.com/in/mtriguero  
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## EDUCATION

### Columbia University

Ph.D in Sociology  
(expected May 2024)

### Columbia University

M.A. in Sociology (2019)

### New York University

Dual M.A. in Int. Relations and  
Journalism (2016)

### Pompeu Fabra University

B.A. in Humanities (2013)

## SKILLS

### Languages:

R, Python, SQL, Stan, JavaScript,  
HTML, CSS

### Natural Languages:

Catalan, Spanish, English, French

### Others:

Git, HCP, big data techniques,  
GCP, machine learning, causal  
inference

## COURSEWORK

Advanced Regression and  
Multilevel modeling, Causal  
Inference for Social Science,  
Modern Statistics for Data Science,  
Machine Learning and Causal  
inference, NLP and Sentiment  
Analysis

## FELLOWSHIPS

**National Science Foundation**  
2022-2023

**Paul F. Lazarsfeld, Columbia**  
2017-2022

**Fulbright Fellowship, NYU**  
2014-2016

**Global Cities UPF, UCLA**  
2012

**Aurora Bertrana, Boston College**  
2012

## WORK EXPERIENCE

### Snap, Inc

Research Intern

May 2022 - Dec 2022

Los Angeles, CA

- Trained embedding models to extract latent cultural taste across users and used machine learning classification techniques to understand how different users relate to each other in their communication styles.
- Developed an R package to properly estimate multilevel, dyad data in a regression framework.
- Developed causal inference techniques for observational data.
- Worked with product and growth teams to create visualizations to help understand how stickers were used across different markets.

### Columbia University - Sociology Dept.

Sept 2018 – present

Teaching Assistant

New York, NY

- Taught graduate students R and Tidyverse methods, along with statistical methods as the lead instructor of Social Data Analysis Lab.
- Taught sections and graded for Methods for Social Science (taught interviews, ethnography, experiments and survey design), Global Urbanism and Work and Gender.
- Mentored students on developing original research projects, from design, to data collection and analysis.

### Research Assistant

March 2020 – May 2022

Research Assistant for Dr. James Jones

Princeton/Rutgers

- Conducted data analysis with pay-roll data from Congress.
- Used deep-learning algorithms to predict racial stratification.
- Translated statistical models to simple data visualizations and memos.

## RESEARCH PROJECTS

### Ethnic classifications across the globe

Secured external funding for (NSF grant), designed, and implemented an online conjoint experiment across five international markets. Used innovative causal inference techniques along with AI image generation to understand how people make ethnic classifications across the globe. Findings were selected for CES 2021 annual conference.

### Causal inference under differential timing of treatment panels

Causal inference approach to observational longitudinal data with differential timing of treatment using stacking and Bayesian Additive Trees. Findings selected for the ASA 2020 annual conference.

### Immigration Discourse on Twitter

Created an issue position classifier using word embeddings, and then used structural topic model to define linguistic frames on immigration debates.

### Causal Effect of Police Violence on 911 calls

Collected data from over 20 police precincts, used machine learning models to create causal impact models to discern the signal of the causal effect of police violence on civic engagement.