

Mireia Triguero Roura

✉ mt3197@columbia.edu
🐙 github.com/mpnyka
🌐 linkedin.com/in/mtriguero
Last Updated: 11.13.2023

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, machine learning,
causal inference, network
analysis, survey design,
multilevel modeling,
interviewing

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

RESEARCH PROJECTS

Ethnic and racial classifications across the globe

Secured external funding for (NSF grant, \$20k), designed, and implemented a survey experiment across five international markets to understand how to measure race and ethnicity across different contexts. Findings were selected for CES 2023 and ASA 2023 annual conferences.

Causal inference methods

Developed new causal inference approaches leveraging Bayesian statistics to better estimate effects using observational data

Immigration Discourse on Twitter

Scraped data and trained and created an issue position classifier using word embeddings, and then used structural topic model to understand how users talk about immigration online.

WORK EXPERIENCE

Snap, Inc

Research Intern

May 2022 - Dec 2022; May 2023 - Aug 2023

New York, NY

- Conducted internal research to model user behavior using advanced statistical methods and machine learning (using SQL, R and Python).
- Worked with Spam and Abuse team to improve early spam detection.
- Used machine learning to extract latent cultural models of communication across users in different markets and to understand factors driving users' similarity in taste across the world.
- Developed an R package to properly estimate multilevel, dyad data with large datasets in a regression framework.
- Developed causal inference techniques for network data.
- Translated research findings into strategic narratives to inform product and growth teams' strategies.

Columbia University - Sociology Dept.

Sept 2022 – present

Lead Instructor for Social Data Analysis Lab

New York, NY

- Created teaching materials to teach PhD students how to code in R.
- Taught statistical concepts and causal inference methods using data simulation, as well as real data examples.
- Mentored students on developing original research, and helped them with the statistical analyses and causal inference.

Columbia University - Sociology Dept.

Sept 2018 – Sept 2020

Teaching Assistant

New York, NY

- 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 unstructured, payroll data from Congress.
- Used deep-learning algorithms to predict racial stratification.
- Translated statistical models to simple data visualizations and memos for non-technical audiences.