

Mireia Triguero Roura

✉ mt3197@columbia.edu
🐙 github.com/mpnyka
🌐 linkedin.com/in/mtriguero
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I am a social science researcher with over 10 years of experience conducting both qualitative and quantitative research across academic and industry settings. I am particularly interested in quantitative methods and causal inference. My dissertation work involved designing, implementing, and analyzing an original survey and experiment distributed across 5 countries. Known for using innovative methods, I strive to translate complex insights into actionable outcomes.

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

Domain Expertise:

Bad Actor Detection,
Experimentation,
Cross-Cultural Research

Languages:

R, Python, SQL, Stan, D3,
JavaScript, HTML, CSS

Natural Languages:

Catalan, Spanish, English,
French

Others:

Git, HCP, GCP, machine
learning, causal inference,
network analysis, survey
design, NLP, experiments,
interviews, ethnography

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

WORK EXPERIENCE

Postdoctoral Research Scientist

Mailman School of Public Health, Columbia University

Aug 2024 – present

New York, NY

- **Statistics & Modeling** : Cleaned, integrated, and analyzed diverse datasets using R and Python to study social issues.
- **Research Leadership** : Led projects, managed teams, and collaborated with stakeholders.
- **Strategic Impact** : Provided data-driven insights that contributed to the publication of academic papers, conference presentations and grant submissions.
- **Data Science and Management** : Developed functions in R and Python to enhance data collection, wrangling, and analysis processes across two research teams.

Quantitative Researcher

Freelance

Feb 2020 – present

New York, NY

- **Data Analysis & Visualization** : Conducted analyses on unstructured data, creating visualizations to communicate insights to non-technical audiences.
- **Predictive Modeling** : Applied deep-learning algorithms to study racial stratification.
- **Strategic Impact** : Translated complex statistical models into actionable insights for decision-making and policy advocacy.

Statistics and Data Science Instructor

Columbia University - Sociology Dept.

Sept 2022 – May 2024

New York, NY

- **Curriculum Development** : Designed teaching materials for PhD students on coding, simulations, data wrangling, and visualization in R.
- **Teaching & Mentorship** : Taught statistical concepts and causal inference using simulations and real data examples.
- **Graduate Mentorship** : Advised 20+ graduate students on research development, statistical analysis, and causal inference design.

Computational Science Intern

Snap, inc

May 2022 - Dec 2022; May 2023 - Aug 2023

New York, NY

- **User Behavior Modeling** : Conducted foundational research to model user behavior.
- **Spam Detection** : Collaborated with Spam and Abuse teams to improve early spam detection.
- **Cultural Modeling** : Applied machine learning to extract latent cultural models of communication across users in different markets.
- **Strategic Impact** : Translated research findings into strategic narratives for product and growth teams.

Teaching Assistant

Columbia University

Sept 2018 - May 2021

New York, NY

- **Research Methods Instruction** : Taught interviews, ethnography, experiments, and survey designs.
- **Student Mentorship** : Mentored undergraduate students through each stage of data collection and analysis for interviews and ethnography.