

# Mireia Triguero Roura

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I am a **social science researcher with 10 years of experience** conducting research across academic and industry settings. I am particularly interested in quantitative methods and causal inference. My current research investigates how **AI is being implemented in medical settings**, taking into account ethical, public health, and sociological implications of adoption. My dissertation work involved designing, implementing, and analyzing a survey and experiment distributed across 5 countries.

## EDUCATION

### Columbia University

Ph.D in Sociology  
(July 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:

Survey weights and Design, Experimentation, Cross-Cultural Research

### Languages:

R (Advanced), Python (Intermediate), SQL (Intermediate), Stata, Stan, 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

Aug 2024 – present

As of Oct 2025: Institute for Public Health, Rutgers University New Brunswick, NJ  
Previously: Mailman School of Public Health, Columbia University New York, NY

- **AI in Medical Contexts**: Developed an independent research agenda examining AI (especially large language models) in substance use treatment and user self-diagnosis.
- **Statistics & Modeling**: Cleaned, integrated, and analyzed diverse datasets using R, Stata and Python to study social and health 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 grants.
- **Data Science and Management**: Developed functions in R and Python to enhance data collection, wrangling, and analysis processes across two research teams.

### Quantitative Researcher

Feb 2020 – Aug 2024

Freelance

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 pay gaps.
- **Social Listening**: Used NLP techniques to understand complex social issues in Reddit discussions.
- **Strategic Impact**: Translated complex statistical models into actionable insights for decision-making and policy advocacy.

### Statistics and Data Science Instructor

Sept 2022 – May 2024

Columbia University - Sociology Dept.

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

May 2022 - Dec 2022; May 2023 - Aug 2023

Snap, inc

New York, NY

- **User Behavior Modeling**: Conducted foundational research.
- **Spam Detection**: Improved early spam detection with Spam and Abuse teams.
- **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

Sept 2018 - May 2021

Columbia University

New York, NY

- **Research Methods Instruction**: Taught interviews, ethnography, experiments, and survey designs.