

Gaspard Tissandier

POSTDOCTORAL ASSOCIATE ·

Rutgers University - School of Criminal Justice

✉ gaspard.tissandier@protonmail.com | 🏠 gaspardtissandier.github.io

Education

University Paris 1 - Panthéon Sorbonne

Paris, France

PHD - ECONOMICS

2019 - 2023

- Dissertation: The application of Machine Learning in Public Policy
- Advisor: Dr. Pierre Kopp
- PhD Committee: Pr Marc-Arthur Diaye (Paris 1), Elliott Ash (ETH Zürich) Brendan O'Flaherty (Columbia University), Sophie Jallet (Université Paris - Nanterre)
- Subject: How Machine Learning algorithms are integrated as Public Policy tools, how to evaluate them (public policy evaluation of a predictive policing system and theoretical work on bias replication through dynamic data-generation process), or to use them as evaluation tool (causal Machine Learning for heterogeneous educational outcome estimation)

Columbia University

New York City, USA

VISITING STAY

2022

- Invited by Pr. O'Flaherty to pursue research in Economics of Crime and Policing

University Paris 1 - Panthéon Sorbonne

Paris, France

MASTERS - ECONOMICS

2017 - 2019

- Specialization in Public Policy analysis, graduated with honors (valedictorian)

Toulouse School of Economics

Toulouse, France

UNDERGRAD (LICENCE III) - ECONOMICS

2016 - 2017

- Courses : Macroeconomics, Microeconomics, Mathematics & Optimization

Professional Experience

Rutgers University - School of Criminal Justice

Newark NJ, USA

POSTDOCTORAL ASSOCIATE

2023 - 2026

- Research Manager at the Newark Public Safety Collaborative (NPSC)
- I perform analysis of crime dynamics and produce reports on crime concentration and correlation around places. I designed an strong and reliable framework based on regression, penalized regression and iML algorithms to provide the best insights on various type of crime across place and time (domestic violence, violent crime, property crime)
- I perform evaluations of programs implemented by NPSC and our partners using my public policy evaluation and causal analysis skills. These evaluations are complemented by judicious data visualization (R, ggplot, R shiny) and mapping (ArcGIS Pro)

EDHEC Business School

Paris, France

RESEARCH ASSISTANT

2019

- Research on segregation indexes based on household revenues in French secondary education system (work with administrative and comprehensive datasets of French students)

Observatoire Français des Conjonctures Économiques - OFCE

Paris, France

INTERNSHIP

2017

- Development of complimentary package to the INES microsimulation model (coded in SAS)
- Report on households' movable assets taxation (report made in anticipation of the 2017 presidential election)

Research

PUBLICATIONS

Gimenez-Santana, Alejandro; Tissandier, Gaspard; Zlaoui, Khalil; Santos, Adriana; Caplan, Joel; Kennedy, Les Evaluating the Effect of Enhanced LED Street Lighting on Nighttime Violent Crime in Newark, NJ. (R&R at Journal of Quantitative Criminology)

Lecorps, Yann; Tissandier Gaspard, PAVED With Good Intentions? An Evaluation of a French Police Predictive Policing System (R&R at International Review of Law and Economics)

Dugato, Marco; Tissandier, Gaspard, Multilevel modelling, 2025, Oxford Research Encyclopedia of Criminology and Criminal Justice

WORKING PAPER

Tissandier, Gaspard, The heterogeneous effect of dropping out for higher education students : the French case

Tissandier Gaspard, Resources misallocation and predictive policing: a data generation process

WORK IN PROGRESS

Tissandier, Gaspard; Gimenez-Santana, Alex, From Data to Action: Benchmarking the Performance and Trade-offs of Interpretable Machine Learning Algorithms for Crime Analysis

Gallegati, Giacomo; Renaud, Thomas; Tissandier, Gaspard, The effect of discourse sentiment on localized crime, an analysis of online discourse's tone

Presentations

CONTRIBUTED PRESENTATIONS

2025 2025 NATIONAL SYMPOSIUM ON EQUITABLE MACHINE LEARNING (Baltimore, MA), 2025 EUROPEAN SOCIETY OF CRIMINOLOGY (Athens, Greece) Invited to participate on the Crime Prediction Panel, 2025 American Society of Criminology (Washington, DC)

2024 2024 AMERICAN SOCIETY OF CRIMINOLOGY (San Francisco, CA), 2024 WESTERN SOCIAL OF CRIMINOLOGY (Long Beach, CA), 2024 CUIP CONFERENCE (Chicago, IL), INTERNAL SEMINAR (Rutgers University)

2023 XXV APPLIED ECONOMICS MEETINGS (Toledo UCLM), JOURNÉES DE LA MICROÉCONOMIE APPLIQUÉE 2023 (Université de Strasbourg), STUDENT RESEARCH SEMINAR (Columbia University), CES PHD SEMINAR (Université Paris 1 - Panthéon Sorbonne)

2022 SUMMER INSTITUTE IN COMPUTATIONAL SOCIAL SCIENCES (Oxford University), 38E JOURNÉE DE LA MICROÉCONOMIE APPLIQUÉE (Université de Rennes 1), 12TH INTERNATIONAL WORKSHOP ON APPLIED ECONOMICS OF EDUCATION (Magna Graecia University), 11TH IFO DRESDEN WORKSHOP ON LABOR ECONOMICS AND SOCIAL POLICY (ifo Dresden), 14TH WORKSHOP ON LABOUR ECONOMICS (IAAEU, Trier University), 17TH DOCTORISSIMES (PSE ENS, Université Paris 1), PUBLIC POLICY SEMINAR (Université Paris 1 - Panthéon Sorbonne)

2021 13TH INTERDISCIPLINARY PH.D. WORKSHOP "PERSPECTIVES ON (UN-)EMPLOYMENT" (Institute for Employment Research -IAB), JOURNÉE DU PROGRAMME POLITIQUES PUBLIQUES (Université Paris 1 - Panthéon Sorbonne), CES PHD SEMINAR (Université Paris 1 - Panthéon Sorbonne)

Teaching Experience

Fall 2024 **Artificial Intelligence in Criminal Justice**, Lecturer

*Rutgers
University*

2020 - 2021 **Public Economics (Masters)**, Teaching Assistant

Paris 1

2019 - 2022 **Microeconomics, Econometrics, Mathematics (Undergraduate)**, Teaching Assistant

Paris 1

Other _____

SIDE PROJECTS

Organizers of the PhD seminar at Paris 1 - Ran the seminar for around 3 years

Redaction board of Regards Croisés sur l'Économie - 1 year

SKILLS

Programming: R, Python, SAS, STATA, ArcGIS Pro, Ubuntu/Debian system (Power user)

Language: English (fluent), French (mothertongue), German (basic)