

# Gaspard Tissandier

POSTDOCTORAL ASSOCIATE ·

Rutgers University - School of Criminal Justice

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## Education

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### **University Paris 1 - Panthéon Sorbonne**

Paris, France

2019 - 2023

#### PHD - ECONOMICS

- 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

2022

#### VISITING STAY

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

### **University Paris 1 - Panthéon Sorbonne**

Paris, France

2017 - 2019

#### MASTERS - ECONOMICS

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

### **Toulouse School of Economics**

Toulouse, France

2016 - 2017

#### UNDERGRAD (LICENCE III) - ECONOMICS

- Courses : Macroeconomics, Microeconomics, Mathematics & Optimization

## Professional Experience

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### **Rutgers University - School of Criminal Justice**

Newark NJ, USA

2023 - 2026

#### POSTDOCTORAL ASSOCIATE

- 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 a 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

2019

#### RESEARCH ASSISTANT

- 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

2017

#### INTERNSHIP

- 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

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### 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

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### 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 CVIPI 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

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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 (mother tongue), German (basic)