

Gaspard Tissandier

POSTDOCTORAL SCHOLAR ·

Stanford University - Civil and Environmental Engineering

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

Education

University Paris 1 - Panthéon Sorbonne

Paris, France

PHD - ECONOMICS

09/2019 - 01/2024

- 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

Stanford University - CEE

Stanford CA, USA

POSTDOCTORAL SCHOLAR

08/2026 - 09/2027

- Billington Lab - Research on built and ambient environment, community well-being and crime outcomes
- With the Billington Lab and partnering labs, we are implementing an extensive urban sensing system to study cities' well-being and its relationship to crime and disturbances. We are researching the effect of the ambient environment on unhoused individuals' living conditions, community workers' work environment, as well as the causal effect between various high frequency/high dimensional urban measures and violence interrupter interventions' success

Rutgers University - SCJ

Newark NJ, USA

POSTDOCTORAL ASSOCIATE

08/2023 - 08/2026

- Research Manager at the Newark Public Safety Collaborative (NPSC)
- I performed 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), both for research purpose and community organizations support
- 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)

- 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

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*)

Gimenez-Santana, Alejandro; Tissandier, Gaspard; Zlaoui, Khalil; Santos, Adriana; Caplan, Joel; Kennedy, Les. (2026). Evaluating the Effect of Enhanced LED Street Lighting on Nighttime Violent Crime in Newark, NJ. *Journal of Quantitative Criminology*. doi:10.1007/s10940-026-09690-6

La Vigne, N., Giménez-Santana, A., Tissandier, G., & Santos, A. (2026). Widening the aperture of the opportunity lens: engaging local stakeholders in the interpretation of crime concentrations. *Crime Science*. doi:10.1186/s40163-026-00285-x

Dugato, M; Tissandier, G. (2026) Multi-Level Modeling. *Oxford Research Encyclopedia of Criminology and Criminal Justice*. doi:10.1093/acrefore/9780190264079.013.ORE_CRI-00816

WORKING PAPER

Tissandier, G; Giménez-Santana, A., From Data to Action: Benchmarking the Accuracy-Interpretability Trade-off of Machine Learning Algorithms for Crime Analysis

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

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

WORK IN PROGRESS

Tissandier, G; Chitransh, A; Barak-Ventura, R; Giménez-Santana, A., From Public Art to Public Safety: A Causal Inference Framework and Analytics Tool for Mural Interventions in Newark

Presentations

CONTRIBUTED PRESENTATIONS

2026 INTERNAL SEMINAR, PENN CENTER FOR NEUROAESTHETICS (University of Pennsylvania), 15TH SPANISH CONFERENCE OF CRIMINOLOGY (A Coruna, Spain)

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 DOCTORIS-SIMES (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)