

GASPARD TISSANDIER

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EDUCATION

- Sept 2022 - Jan 2023* Invited Visiting PhD, **Columbia University**, New York City
I was a visiting PhD student at Columbia University under the supervision of the Pr. O’Flaherty, to work on criminality and predictive policing algorithms.
I am the recipient of the Doctoral mobility grant from the Alliance program.
Courses : Machine Learning (CS Department), Issues in Political Theory (Political Science Department)
- Sept 2019 - Current* PhD Candidate in ECONOMICS, **Université Paris 1 - Panthéon Sorbonne**, Paris
Thesis subject : *The application of Machine Learning in public policy*
- Supervised by Pr. Kopp
First paper : I estimate the heterogeneous effect of dropping out on former students’ labor market outcomes using causal Random Forest methods with an Instrumental Variable setting. The objective of the paper is to question the actual resources distribution of the french dropout policy.
Second paper, co-authored with Yann Lecorps (Paris 1) : We perform an econometric evaluation of a french predictive policing system (PAVED), and study the efficiency and indirect effects of this algorithm.
Third paper, co-authored with Cesar Barilla and Yeon-Koo Che (Columbia University) : We apply a multi-armed bandit model on a predictive policing case to empirically test the caveat of endogenous datafication. We develop a benchmark of predictive policing algorithms by using the NYPD offenses database.
Courses : Optimization and Statistics for statistical learning, Machine Learning for Economics, Economics of Education, Microeconomics fairness
- 2018 - 2019 Master 2 in PUBLIC POLICY - *With honors*, **Université Paris 1 - Panthéon Sorbonne**, Paris
Thesis: Bias and Discrimination in Public Algorithms : a predictive policing case
Courses : Economics of Crime, Law & Econ, Applied Econometrics, Regulation, Labor Economics
PhD Track : Advanced microeconomics, Advanced econometrics, Behavioral economics
- 2017 - 2018 Master 1 in APPLIED ECONOMICS - *With honors*, **Université Paris 1 - Panthéon Sorbonne**, Paris
Courses : Public Economics, Political Economics, Econometrics, Industrial Organization
- 2016 - 2017 Licence (Undergraduate) in ECONOMICS, **Toulouse School of Economics**, Toulouse
Courses : Macroeconomics, Microeconomics, Mathematics & Optimization

EXPERIENCE

SEPTEMBER 2018 - <i>Current</i>	Teaching Assistant at UNIVERSITÉ PARIS 1 - PANTHÉON SORBONNE, Paris <i>Public Economics (Master), Microeconomics, Econometrics, Mathematics (Undergraduate)</i>
MAY-JULY 2019	Research Assistant at EDHEC BUSINESS SCHOOL, Paris Under the supervision of P. Courtioux and TP. Maury, we worked on an imputation and bootstrapping method to compute segregation indexes in secondary education in France, based on family earnings.
APRIL-MAY 2017	Internship at OBSERVATOIRE FRANÇAIS DES CONJONCTURE ÉCONOMIQUE - OFCE, Paris I developed an complementary package to the INES microsimulation model and co-wrote a small report on the reform of the french households capital taxation.

CONFERENCE AND OTHER EXPERIENCE

- 2023** XXV APPLIED ECONOMICS MEETINGS (Toledo UCLM), JMA 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 (intern seminar)
- 2021** 13TH INTERDISCIPLINARY PH.D. WORKSHOP "PERSPECTIVES ON (UN-)EMPLOYMENT" (Institute for Employment Research -IAB), JOURNÉE DU PROGRAMME POLITIQUES PUBLIQUES (Université Paris 1), CES PHD SEMINAR (intern seminar)

LANGUAGES

ENGLISH : Fluent
FRENCH : Mother tongue
GERMAN : Basic Knowledge

SKILLS

R, Python, SAS, STATA
PHP/SQL (base), HTML/CSS (base)
Ubuntu/Debian system - Power user

ANNEX ACTIVITES

I co-founded the Ph.D Seminar of my home institution and actually run it with colleagues.
I am on the redaction board of a student review (Regards Croisés sur l'Économie).
I am an active ALUMNI of my past master.

INTEREST

Fairness & equality in prediction
Open source software and knowledge
Advances in utilitarianism and challenging theories
Complementarity & substitutability of machine learning and human expertise