Armande Aboudrar-Méda

Highly motivated Data Science and Public Policy graduate, I focus on using geospatial analysis, economic modelling, statistics and machine learning techniques for quantitative research and data-driven insights that support sustainable climate policies. Proficient in R, Python, and QGIS, I have gained practical experience through roles at the Potsdam Institute for Climate Impact Research (PIK) and Mayane Labs, as well as internships at the European Parliament.

Personal Data

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Education

2023-2025 **MSc in Data Science for Public Policy**
HERTIE SCHOOL, Berlin, Germany / 2+1 track
Relevant Courses: Machine learning, Deep learning, Geospatial Analysis, Bayesian Modelling, Influencing Brussels: Fit for 55, Multi-Level Climate Governance, Causal Inference & Empirical Environmental Economics
Thesis: Perception vs. Provision: Trust, Ideology, and Subjective Healthcare Inequalities in France
Supervisor: Prof. Dr. Simon Munzert (Hertie School)

2022-2024 **MPP in Public Policy, Specialisation Policy Analysis**
HERTIE SCHOOL, Berlin, Germany / 2+1 track
Thesis: Fossil Fuel Price Shocks and Optimal Climate Policy (Carbon Pricing): An Analytical Investigation
Method: Economic Modelling
Supervisors: Prof. Dr. Christian Flachsland (Hertie School), Dr. Kai Lessmann (PIK, FutureLab Leader), PhD Beatriz Gaitan (PIK)

2021-2022 BA in Applied Economics
UNIVERSITÉ PARIS-DAUPHINE (PSL), Paris, France

2019-2022 Interdisciplinary Bachelor : Cycle Pluridisciplinaire d'Etudes supérieures (CPES)
CAMPUS JOURDAN PARIS SCHOOL OF ECONOMICS/ ECOLE NORMALE SUPÉRIEURE, Paris, France
Economics, Society and Law track, Double Major in Economics and Political Science (2nd year), Specialisation in Applied Economics (3rd year)
Thesis: Evolution and characteristics of gifts in France, a study of the 2011-2012 inheritance tax reform

Professional Experience

06/2024-08/2024 **Data Intern at** Mayane Labs
MAYANE LABS, Paris, France
Used R and Python libraries, as well as QGIS, for hydrological and geospatial data analysis. Modeled climate impacts on water resources to inform adaptation strategies. Communicated findings to stakeholders, focusing on clear data storytelling and actionable insights

09/2023-09/2024 **Student Research Assistant at the** "Public Economics and Climate Finance Laboratory"
POTSDAM INSTITUTE FOR CLIMATE IMPACT RESEARCH—PIK, Potsdam, Germany
Group Leader: Dr. Kai Lessmann (PIK, FutureLab Leader)

Conducted literature review and quantitative modelling of climate externalities; produced Python/R visualisations for group presentations.

05/2023-07/2023 **Trainee as an assistant to an MEP**
European Parliament, Brussels, Belgium
Drafted policy memos on ESG criteria and proposed legislative amendments on employment and ecological transition. Analysed social and economic implications of environmental policies for committee discussions.

06/2022-07/2022 **Internship at the** French Institute of Naples
French Institute of Naples, Naples, Italy

06/2021-07/2021 **Trainee as an assistant to an MEP,**
European Parliament , Brussels, Belgium

Languages

French — native profiency (C2)
English — full professional proficiency (C1+)
German — full professional proficiency (C1)
Italian — intermediate proficiency (B1)

Data Science Competencies

Data Analytics & Modeling

R, Python, Stata, Stan
Machine learning, Deep Learning, Causal inference
Geospatial analysis (geospatial libraries, QGIS)
Economic modeling, Bayesian modeling

Policy research

literature reviews, case studies, stakeholder interviews, policy briefs, memos

data management & wrangling

SQL, web scraping, survey design
Data transformation, relational databases

Additional tools:

LaTeX, Wolfram Mathematica, JavaScript (basic), Excel, MS Suite, Inkscape

Other Projects & Training

dec 2024 **Deep Learning Tutorial, Hertie School**
Evaluating and Mitigating Bias in Toxic Language Detection Models for Social Media Governance - Jigsaw Toxic Comment Classification dataset, pre-trained BERT model and Fairlearn and IBM's AI Fairness 360

may 2024 **Machine Learning Group Project, Hertie School**
Predicted well-being disparities across socio-economic groups using SHARE-ENV data

may 2024 **Data Structure and Algorithms Group Project, Hertie School**
Efficiently generate and solve Sudoku puzzles with a unique solution, different difficulty level and a specified number of clues. Creating a HTML page to display the sudoku and use of PythonAnywhere

dec 2023 **MDS Hackathon Project, Hertie School**
Investigated the relationship between threat perception and news consumption on Russia