Ondine Berland

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Citizenship: French

Research Interests

Main: Environmental Economics, Public Economics, Applied Microeconometrics

Secondary: Machine Learning, Gender Economics

Current Position and Affiliations

LSE Fellow in Environmental Economics, London School of Economics & Political Science

      Postdoctoral Scholar at the GY Department   **2025-**

Grantham Research Institute

      Affiliate   **2025-**

Education

Ph.D. in Economics, University of Paris-Saclay   **2020 - 2024**

- **Research Unit:** Paris-Saclay Applied Economics (PSAE), INRAE
- **Supervisor:** Stéphane De Cara (PSAE)
- **Jury**: Céline Bonnet (TSE), Jutta Roosen (TUM), Martin O'Connell (Wisconsin-Madison), José de Sousa (Paris-Assas)

M.Sc. Applied Economics, Paris School of Economics (Cum Laude)   **09/2019 – 09/2020**

- **Specialization:** Public Policy and Development

M.Phil. Economics, Ecole Polytechnique and ENSAE   **09/2016 – 09/2018**

B.Sc. Business and Economics, Ecole Normale Supérieure de Cachan   **09/2015 – 09/2016**

Teaching

London School of Economics   **2025-**

Lecturer: Environmental Economics (BA)

Master Thesis Supervision

AgroParisTech - Guest Teacher: Sustainable Food Systems (M.Sc)   **02/2024**

Prof. Stéphane De Cara (INRAE)

ENSAE - Project supervision in Applied Statistics (M.Sc)   **2022 – 2023**

Paris School of International Affairs, Sciences Po Paris - Teaching Assistant   **09/2021 – 09/2023**

- Introduction to Environmental Economics course (M.Sc) Prof. Stephen Smith

Ecole Normale Supérieure Paris-Saclay - Teaching Assistant   **09/2021 – 09/2022**

- Macroeconomics course (L3) - Prof. Hubert Kempf

Research Stays

University of Cambridge - Dept. of Economics (Prof. Eve Colson-Shihra)   **March 2024**

Siegen University - Dept of Economics (Thomas Kopp)   **December 2023**

Hebrew University - Dept. of Economics (Prof. Eve Colson-Shihra).   **Fall 2023** (Postponed)

UC Berkeley - Dept. of Economics and Haas School of Business (Prof. Nano Baharona) **August 2022**

Additional Research Experience

Paris School of Economics - Research Assistant (Prof. Fabrice Etilé)   **02/2020 – 09/2020**

World Bank (Mind, Behavior and Development Unit) - Short-term Consultant   **07/2019 – 09/2019**

University of Oxford (Blavatnik School of Government) - Research Assistant   **09/2020 – 08/2021**

- **Supervisors:** Mahreen Mahmud and Kate Orkin

Research

Job Market Paper

Households' Food Carbon Footprints

Global food systems are a major contributor to greenhouse gas emissions, yet strategies to mitigate food-related emissions receive low public acceptance. To better understand this gap, this study pioneers a comprehensive analysis of household-level food carbon footprints using a representative panel survey for France from 2017-2019. Using machine learning techniques to match food purchases and environmental data, I unveil significant emission disparities across sociodemographic groups, with a notable portion of these differences attributable to unobserved heterogeneity. By segmenting households into quartiles based on their current emission levels, I estimate a structural demand model that reveals distinct profiles in consumption behaviour and price sensitivity, particularly contrasting low and high-emission households. These findings underscore the need to consider households' heterogeneous reactions to price changes when designing climate-related food policies.

Working Papers

How Do Households Adjust Food Purchases to Fuel Prices Shocks? Evidence from France.
(with Fabrice Etilé)

Shocks in energy prices impact households' disposable income and welfare, with consequences for the acceptance of environmental policies. We examine how households adjust food consumption to such shocks by estimating the effects of fuel prices on food purchasing patterns in France. Using homescan data, we find an elasticity of total food expenditure of approximately -0.3, mainly through reductions in the unit value of products. We highlight that households adjust more on unit value for fresh fruits and vegetables and more on volumes for animal proteins and alcohol. They adjust their purchase patterns by restricting the frequency of shopping trips, visiting hard discount stores, substituting among, and buying in bulk. Low-income households do not adjust significantly to fuel price shocks, likely because they have already largely exploited these adjustment margins. Thus, they are directly affected by any abrupt increase in fuel prices.

Pipelines or Pyramids: Unequal Progress and Barriers for Women in Economics
(with Oliver Harman & Ninon Moreau-Kastler)

We emphasise the evolution of gender inequalities in economics. Our analysis of recent literature and data highlights that the reduction in gender inequality has been heterogeneous, with the most significant changes being observed at the higher ranks, leaving substantial gaps at other levels. We explore how understanding the nuances of women's behaviours and career choices, alongside recognising and mitigating gender biases in evaluation and workplace environments, contributes to this progress. Our discussion extends to the labour market for economists, drawing parallels with broader labour trends and examining how gender-biased treatment and hiring processes impact women's advancement. We then turn to policy interventions instrumental in promoting gender balance, focusing on networks, mentorship, role models, and representation. This comprehensive review aims to elucidate the multifaceted approach needed to continue advancing gender equality in economics.

Gender and Carbon Footprints (with Marion Leroutier)

Understanding the distribution of carbon emissions across population groups is crucial for designing fair and acceptable climate policies. We uncover a significant gender gap in carbon footprints using individual-level data from France on food consumption and transport use, two categories representing half of individuals' emissions, matched with product-level emission intensities. Women's footprints are 26% lower than men's on average. The gap is found among couples and singles, and narrows to 18% when controlling for socioeconomic characteristics. Women's lower emissions are not only explained by their lower calorie requirements and shorter distances traveled: 25\% % of the food emissions gap and 38\% % of the transport emission gap remain unexplained after accounting for socioeconomic factors and the scale of consumption. Emissions from red meat and cars, two high-pollution goods, make up a disproportionate share of the residual gap, highlighting the potential role of consumption preferences and occupational choices tied to gender identity.

Work in Progress

Junk Food, Leisure, and Income Inequalities (with Eve Colson Shira, Hugo Molina, Emmanuel Paroissien)

Many studies have documented that high-income households tend to adopt diets of higher nutritional quality, ceteris paribus. Guided by the fact that the "liking for sweet taste is both innate and universal" (Drewnowski et al., 1997) and differences in supply conditions only explain a small share of diet inequalities (Allcott et al., 2019), we investigate a driver of food preferences that has not been explored yet: income enables households to substitute the pleasure derived from tasty (but unhealthy) foods with expensive leisure activities.

The Effects of Social Food Security: A Randomized Experiment among Students in Higher Education
(with Bénédicte Apouey, Simon Briole and Damien Mayaux)

Pre-registered trial at AEA registry: https://doi.org/10.1257/rct.15529-1.3

Non-peer reviewed publication

Inflation des prix alimentaires : quelles conséquences possibles pour les ménages modestes ?
(with Fabrice Etilé and Louis-Georges Soler)

Grants, Scholarships, and Awards

Best Paper Presentation Award, **University Paris Saclay**	**2023**
Research Grant, **Île-de-France Region** (100,000 EUR)	**2022 – 2025**

    - with Stéphane De Cara and Fabrice Etilé

    - funding used for data purchasing, fourth PhD year, and international mobility

International Mobility Grant, Biosphera (600 EUR)	**2023**
Conference Travel Grant, **ADRES** (400 EUR)	**2022 – 2023**
Conference Travel Grant, **Agricultural & Applied Economics Association** (500 EUR)	**2022**
PhD Scholarship, **Ecole Normale Supérieure Paris-Saclay** (Three years full-time)	**2020**
Study Scholarship, **Ecole Normale Supérieure Paris-Saclay** (Four years full-time)	**2015**

Refereeing

Ecological Economics; International Economics; Science of the Total Environment

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Outreach

- **Podcast on Food Carbon Footprints** (Quantis - BCG)
- **Women in Applied Mathematics** (Paris-Saclay)
- **Women in Sciences** - Keynote lecture (Biosphera Doctoral School)

Professional Activities

PhD Representative, Paris Saclay Applied Economics   2022 – 2024

Co-founder of a Women in Economics Network, Women in Econ Paris Saclay   2021 – Present

Contributing Blog Writer, World Bank and International Growth Center   2021 – 2023

Seminars and Conference Presentations

2025: Gender Inequality Workshop - London School of Economics; SEHO 2025 - Society of Economics of the Household; CEEM External Seminar Montpellier, Dijon External Seminar

2024: PSAE - Internal Seminar; Institute of Fiscal Studies - Scanner Data Workshop; Stockholm School of Economics - Political Economy of the Environment Workshop; London School of Economics: Environmental Workshop; Paris School of Economics - Applied Seminar; EAERE - 29th Annual Conference of the European Association of Environmental and Resource Economists; European Economic Association - Rotterdam.

2023: EAAE Congress - European Association of Agricultural Economics; University of Paris Saclay Graduate School Days; Salon de l'Agriculture; 10th Annual Conference of the French Association of Environmental Economists; AFSE - The 71th Congress of the French Economic Association; PSAE - Internal Seminar; Siegen University External Seminar; SMART UMR (INRAE) External Seminar.

2022: CEEM External PhD Seminar; Second World Inequality Database Conference - Paris School of Economics; Tenth IAERE Annual Conference - Italian Association of Environmental & Resources Economics; Augustin Cournot Doctoral Days; EAERE - 27th Annual Conference of the European Association of Environmental and Resource Economists; 2022 AAEA Annual Meeting - Agricultural & Applied Economics Association; EAAE PhD Workshop - European Association of Agricultural Economics.

2021: JMA - 37th days of applied microeconomics; French Association of Environmental & Resources Economics; PSAE - Internal Seminar; FAERE - 8th Annual Conference of the French Association of Environmental Economists.

Technical Skills and Languages

- **Econometrics and Programming**: Stata, Python, R, LaTeX
- **Languages**: English (fluent, C2), French (native, C2), German (beginner, A2)

References

Stéphane De Cara *(PhD advisor)*
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Fabrice Etilé
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