

Emilien Ravigné

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Citizenship: French

Last update: Jan 2025

RESEARCH FIELDS

Environmental Economics; Growth and Innovation; Inequalities

CURRENT POSITIONS

University of Oxford, Postdoctoral Researcher School of Geography and the Environment, Smith School of Enterprise and the Environment Climate Compatible Growth, UK Aid-funded project Principal Investigator: S. Fankhauser	Jan 2025 - <i>present</i>
INET Oxford, Research Fellow Institute for New Economic Thinking at the Oxford Martin School, University of Oxford	2023 - <i>present</i>
Oxford Net Zero, Associate Researcher University of Oxford interdisciplinary platform for reaching net zero emissions	2023 - <i>present</i>

PREVIOUS POSITION

University of Oxford, Postdoctoral Researcher School of Geography and the Environment, Smith School of Enterprise and the Environment Productive and Inclusive Net Zero Research Project (PRINZ), ESRC grant Principal Investigators: S. Fankhauser and F. Lafond	Jan 2023 - Jan 2025
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EDUCATION

Université Paris-Saclay, CentraleSupélec CIRED PhD in Economics <u>Thesis</u> "Fair climate policies and technical change: Essays on distributional impacts and social acceptability on the path to net zero" <u>Supervisors</u> : Prof. Pascal da Costa, Dr. Frédéric Gherzi, and Dr. Mehdi Senouci <u>Thesis jury</u> : Prof. Philippe Aghion, Prof. Mireille Chiroleu-Assouline (<i>reviewer</i>), Prof. Carolyn Fischer (<i>reviewer</i>), Prof. Claire Lelarge (<i>chair</i>), Prof. Thomas Sterner	Jan. 2019 – Dec. 2022
Université Paris-Saclay AgroParisTech MSc in Environmental Economics, with Honours	2018
Ecole Centrale Paris Université Paris-Saclay, CentraleSupélec MSc in Engineering Major in Industrial Engineering Exchange semester at the Indian Institute of Technology of Bombay (IITB), Mumbai, India (spring 2017)	2015 – 2018
Lycée Louis-le-Grand, Paris Classes Préparatoires (MPSI, PSI*), <i>Equivalent to BSc in Maths and Physics</i>	2013 – 2015

PUBLICATIONS

- Ravigné, E., Gherzi, F., & Nadaud, F. (2022). Is a fair energy transition possible? Evidence from the French low-carbon strategy. **Ecological Economics**, 196, 107397. [10.1016/j.ecolecon.2022.107397](https://doi.org/10.1016/j.ecolecon.2022.107397)
 - *Media coverage*: Le Monde ([link](#)), Alternatives Economiques ([link](#))
- Ravigné, E., & Da Costa, P. (2021). Economic and environmental performances of natural gas for heavy trucks: A case study on the French automotive industry supply chain. **Energy Policy**, 149, 112019, [10.1016/j.enpol.2020.112019](https://doi.org/10.1016/j.enpol.2020.112019)

WORKING PAPERS - WORK IN PROGRESS

Working papers

- Can a carbon tax increase emissions? The backfire effect of carbon tax recycling, with Franck Nadaud (CNRS-CIRED), [Working paper CIRED](#)
 - *Media coverage*: Les Echos ([link](#))
- Is green technical change skill-biased? Disentangling the directions of technical change: A new growth accounting method — *available on request*

Work in progress

- The impact of the Net Zero transition on aggregate productivity, with François Lafond (Oxford) — *First draft available on request*
- Energy crisis and carbon taxation impact on UK jobs per region and sector, with Ralf Martin (IFC, Imperial College), Costanza Tomaselli (Imperial College)
- Redistributing the revenue of the Carbon Border Adjustment Mechanism for industry: Can equity rhyme with efficiency?, with Pauline Marc-Tudor (Oxford)
- Policy impact on green technology diffusion, with Brendon Tankwa (Oxford), J. Doyne Farmer (Oxford)
- Could a four-day week reduce GHG emissions?, with Max Collett (Oxford, UCL)

POLICY WRITINGS

- Elasticities of household demand, Note for l'Inspection Générale des Finances – French governmental finance oversight body (2021) with Frédéric Gherzi and Franck Nadaud
- What are the distributive impacts of environmental policies?, Emilien Ravigné, *Regards Croisés sur l'Economie*, 2020, n° 26 (1), pp.198-207. [10.3917/rce.026.0198](https://doi.org/10.3917/rce.026.0198)
 - Used as a support document by the Ecoles Normales Supérieures for their 2023 entrance examination in Economics ([2023](#), [BL](#), [document n°5](#))
- Experts Report, “Assessment of the distributional impacts of the Second French National Low Carbon Strategy”, report for the French Environmental Agency (Ademe), with Frédéric Gherzi and Franck Nadaud – *to be released*
- Policy Brief “Addressing the distributional impacts of the National Low Carbon Strategy”, with Frédéric Gherzi and Franck Nadaud – *to be released*

ENGAGEMENT & IMPACT

- Advisory work
 - Engagement with His Majesty Treasury (HMT, UK), Treasury Department (DG Trésor, France), Bank of England, Dutch National Bank, French Environmental Agency (ADEME), French General Inspectorate of Finance (IGF)
- Media
 - Le Monde, Les Echos, Alternatives Economiques

GRANTS & AWARDS

Smith School Innovation Fund grant (PI – 2000£) PI, University of Oxford	2023
“EUSL-Capacity” European Union Erasmus+ Programme (997k€) - co-writer Erasmus+ Higher Education - International Capacity Building Programme to co-create a digital master in Sustainability with four Sri Lankan Universities Role: Co-writer for CentraleSupélec, Task Leader, https://euslenergy.com/index.html Partners: KTH Stockholm, Univ. of Twente, CentraleSupélec, Univ. of Moratuwa, Univ. of Ruhuna, Open University of Sri Lanka, Univ. of Peradeniya.	2020 – 2023
Full PhD Scholarship – 4 years (137k€) CapitalDon research chair, CentraleSupélec	2019 – 2022

COMMUNITY SERVICE

Organiser of the PRINZ seminar London School of Economics, monthly	2023 – 2024
Member of the INET Oxford Committee for Junior Visiting University of Oxford	2023 – 2024
Elected Representative of the PhD student body Université Paris-Saclay, ED 573, Interface	2020 – 2022
Peer-Review Activities Energy Economics, Climatic Change, Nature Communications French National Research Agency (ANR, Agence Nationale de la Recherche, project-based funding scheme)	

TEACHING & SUPERVISION

MSc dissertations Supervision

University of Oxford Supervision, Nehal Kaul, 2025 (MPhil in Economics) Supervision, Pauline Marc-Tudor, 2024 (MSc in Energy Systems) Co-supervision, Max Collett, 2023, (MSc in Environmental Change and Management), with S. Fankhauser, Best Dissertation of the MSc and departmental award	2023-2025
Université Paris-Saclay, AgroParisTech Co-supervision, Matthieu Petiteville (MSc in Environmental Economics), with F. Ghersi	2021

Assessment

DPhil Confirmation of Status Committee (end of 2nd year PhD examination) Xiyu Ren, School of Geography, University of Oxford	Fall 2023
MSc Dissertations MSc in Environmental Change and Management, University of Oxford	Spring 2023

Full Lecturer

Micro-Economics and Game Theory ESSEC x CentraleSupélec, Master of Data Science and Business Analytics-M1, 15h (en)	Fall 2019
Growth and Inequality Economics CentraleSupélec, Master of Engineering-M1, 4.5h (fr)	Fall 2020, 2021

Economic Modelling of Climate Change CentraleSupélec, Bachelor of Engineering-L3, Week-intensive course, 35h (fr) <i>New course creation in 2019, full responsibility for design, lectures, tutorials, and exam</i> <i>Course still in activity in 2025</i>	Spring 2019, 2020, 2021
Environmental Economics CEA, Master in Nuclear Energy, 9h (en)	Spring 2020, 2021, 2022

Guests Lectures

Distributional Impacts of Climate Policies Universitat Politècnica de Catalunya, Barcelona, 3h (en)	Spring 2023, 2024
Introduction to Climate Policies and their Impacts DU ALLCAN Paris-Saclay, 3h (fr)	Spring 2022, 2023, 2024
Introduction to Environmental Economics Université Paris-Diderot, Master of Applied Economics-M2, 3h (fr)	Spring 2021, 2022
Distributional Impacts of Climate Policies ENSTA, Master of Engineering-M1, 3h (fr)	Spring 2021, 2022

Tutorials

Introduction to Economics (Micro & Macro) CentraleSupélec, Master of Engineering-M1, 21h (en, fr)	Fall 2018, 2019, 2020
Growth and Innovation Economics CentraleSupélec, Master of Engineering-M1, 9h (en)	Fall 2019, 2020, 2021
Topics in Advanced Economics CentraleSupélec, Master of Engineering-M1, 9h (en)	Fall 2018
Industrial Engineering CentraleSupélec, Bachelor of Engineering, 2018: 27h, 2019: 6h (en, fr)	Fall 2018, Spring 2019

Online courses/MOOC

EUSL – Energy Capacity Building and Circular Economy in Sri Lanka (digital Master) Course creation, CentraleSupélec As part of the EUSL Erasmus+ Project Courses: Climate change economics; Introduction to externalities - Price and quantity approaches; Policy tools for the environment; Case studies and databases for valuation of externalities; Ecosystem services; Colombo wetlands case study: stakeholders, business model and ecosystem services	2022
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CONFERENCES AND SEMINARS

2024: SEMINARS: Oxford Environmental Economics seminar (Jan), Dutch National Bank Economics Seminar (Dec)
CONFERENCES & WORKSHOPS: Oxford Economics of Sustainability workshop, Oxford (Jan); International Energy Workshop, Bonn (Germany) (June); Annual EAERE conference, Leuven (July)

2023: SEMINARS: INET Researcher Seminar, Oxford University (Feb); Seminar to French National Grid Agency (RTE), Department of Economic Analysis, Paris (April); PRINZ seminar, London School of Economics, London (May); Nuffield College (Oxford) postdoctoral research seminar in Economics (Nov)
CONFERENCES & WORKSHOPS: Oxford Economics of Sustainability workshop, Oxford (May); Theories and Methods in Macroeconomics (T2M), ESCP Business School, Paris (June); Annual conference of the French Economics Association (AFSE), Sciences Po, Paris (June); Annual Conference of the European Economics Association (EEA), Barcelona School of Economics, Barcelona, (Aug)

2022: SEMINARS: Mercator Research Institute on Global Commons and Climate Change, Berlin (May); RITM Laboratory, Université Paris-Saclay, Weekly lab seminar (May)
CONFERENCES & WORKSHOPS: Workshop on “Effectiveness and Distributional Impacts of Environmental Policy” at the Berlin School of Economics (April); Workshop of the FAERE, ENS Paris-Saclay (April); Journées de Micro-économie Appliquée, Univ. Rennes (June); Annual EAERE conference, Rimini (June); Public Economic Theory Conference, Marseille (June)

2021: CONFERENCES & WORKSHOPS Annual EAERE conference, online (June); Annual IAEE conference, online (June); IEW, online (June); Annual FAERE conference, online (Sept.)

2020: CONFERENCES & WORKSHOPS Annual conference of the FAERE, Grenoble (Sept.); ICTA-UAB, Barcelona, Spain, “International Conference on Low-Carbon Lifestyle Change” (May); Sustainable Economics Seminar, CentraleSupélec, Université Paris-Saclay (Jan)

2019: CONFERENCES & WORKSHOPS EU Conference on modelling for policy support, European Commission’s Competence Centre, Bruxelles, Belgium (Nov); CIRED Summer School (France) (July); Sustainable Economics Seminar, CentraleSupélec, Université Paris-Saclay (April)

OTHER ROLES AND EXPERIENCES

CNRS-CIRED, Nogent-sur-Marne Research assistant – Economic model creation	Sept. 2018 – Nov. 2018
Renault-Nissan, Guyancourt Strategy & Projects, Green Supply Chain	June. 2018 – Sept. 2018
Bank of France, Paris Research at the Market Monitoring and QE Unit	June. 2017 – Sept. 2017

REFERENCES

Prof. Samuel Fankhauser University of Oxford	sam.fankhauser@smithschool.ox.ac.uk
Dr. François Lafond University of Oxford	francois.lafond@inet.ox.ac.uk
Prof. Pascal da Costa Université Paris-Saclay - CentraleSupélec	pascal.da-costa@centralesupelec.fr
Dr. Frédéric Gherzi CNRS-CIRED	frederic.ghersi@cnrs.fr

MISCELLANEOUS

Languages: French (native), English (fluent), Spanish (conversational)
Software: R, Python, VBA (excel), SQL, Mathematica, Latex