

# Emilien Ravigné

EIEE-CMCC  
<https://emilienravigne.netlify.app/>

Citizenship: French

Last update: January 2026

## RESEARCH FIELDS

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Environmental Economics; Growth and Innovation; Inequalities

## CURRENT POSITIONS

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### RFF-CMCC Marsili Fellow

Jan 2026 - current

Resource for the Future - Fondazione Centro EuroMediterraneo sui Cambiamenti Climatici (RFF-CMCC), European Institute for Environmental Economics (EIEE), Milan, Italy

- The Marsili Fellowship is aimed at international early-career researchers to help them pursue groundbreaking research and academic excellence in the field of climate science, climate resilience and climate economics ([link](#))

## ACADEMIC APPOINTMENTS

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### University of Oxford, Postdoctoral Researcher

Jan 2023 - Dec 2025

School of Geography and the Environment, Smith School of Enterprise and the Environment

2025: Macroeconomic impacts of the 7th UK Carbon Budget, Agile - ESRC grant, PI: J.D Farmer

2025: Climate Compatible Growth, UK Aid-funded project, PI: S. Fankhauser

2023-2024: Productive and Inclusive Net Zero, ESRC grant, PI: S. Fankhauser & F. Lafond

### INET Oxford, Senior Research Fellow

2025

Institute for New Economic Thinking at the Oxford Martin School, University of Oxford

### INET Oxford, Research Fellow

2023 - 2024

Institute for New Economic Thinking at the Oxford Martin School, University of Oxford

### Oxford Net Zero, Associate Researcher

2023 - 2025

University of Oxford interdisciplinary platform for reaching net zero emissions

## EDUCATION

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### Université Paris-Saclay, CentraleSupélec | CIRE

Jan. 2019 – Dec. 2022

PhD in Economics

Thesis "Fair climate policies and technical change: Essays on distributional impacts and social acceptability on the path to net zero" ([theses.fr/2022UPASI013](https://theses.fr/2022UPASI013))

Supervisors: Prof. Pascal da Costa, Dr. Frédéric Ghersi, and Dr. Mehdi Senouci

Thesis jury: Prof. Philippe Aghion, Prof. Mireille Chiroleu-Assouline (*reviewer*), Prof. Carolyn Fischer (*reviewer*), Prof. Claire Lelarge (*chair*), Prof. Thomas Sterner

### Université Paris-Saclay | AgroParisTech

2018

MSc in Environmental Economics, with Honours

### Ecole Centrale Paris | Université Paris-Saclay, CentraleSupélec

2015 – 2018

MSc in Engineering

Major in Industrial Engineering

Exchange semester at the Indian Institute of Technology of Bombay (IITB), Mumbai, India (spring 2017)

### Lycée Louis-le-Grand, Paris

2013 – 2015

Classes Préparatoires (MPSI, PSI\*), *Equivalent to BSc in Maths and Physics*

## PUBLICATIONS

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- Ravigné, E., Ghersi, 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

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### 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)
- Climate policy reforms and the acceleration of solar and wind diffusion, with Brendon Tankwa (Oxford), J. Doyne Farmer (Oxford)
- Could a four-day week reduce GHG emissions?, with Max Collett (Oxford, UCL)

## POLICY WRITINGS

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- T. Youngman, P. Barbrook-Johnson, E. Ravigné, B. Tankwa, J.D Farmer. Nov 2025. Complexity economics insights for the Seventh Carbon Budget, Institute for New Economic Thinking, University of Oxford [link](#)
  - Submitted 4 November 2025 to UK Parliament call for evidence of the Environmental Audit Committee inquiry on the Seventh Carbon Budget, [link](#)
- S. Fankhauser, L. Agnelli, M. Collins-Tobin, F. Khushnud, H. Luscombe, J. Omukuti, E. Ravigné, S. Srivastav and M. Weidinger. 2025. The Economic Benefits of Renewables and How to Share Them, Smith School of Enterprise and the Environment, University of Oxford, [link](#)
  - Presented in panels at COP 30, Belém, Brazil: [link](#)
  - Article in the Conversation, S. Fankhauser, Renewable energy is reshaping the global economy – new report, 2025, [link](#)
  - *Media coverage:* Semafor, [link](#)
  - Smith School press release, "10% GDP boost to Global South from clean energy transition" [link](#)
- Elasticities of household demand, Note for l'Inspection Générale des Finances – French governmental finance oversight body (2021) with Frédéric Ghersi 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 Ghersi and Franck Nadaud – *to be released*
- Policy Brief "Addressing the distributional impacts of the National Low Carbon Strategy", with Frédéric Ghersi and Franck Nadaud – *to be released*

## ENGAGEMENT & IMPACT

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- 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

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

## COMMUNITY SERVICE

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

## TEACHING & SUPERVISION

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<u><i>MSc dissertations Supervision</i></u>	
<b>University of Oxford</b> Supervision, Nehal Kaul, 2025 (MPhil in Economics)	2023-2025
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	
<b>Université Paris-Saclay, AgroParisTech</b> Co-supervision, Matthieu Petiteville (MSc in Environmental Economics), with F. Ghersi	2021
<u><i>Assessment</i></u>	
<b>DPhil Confirmation of Status Committee (end of 2nd year PhD examination)</b> Xiyu Ren, School of Geography, University of Oxford	Fall 2023

Full Lecturer

<b>Micro-Economics and Game Theory</b>	Fall 2019
ESSEC x CentraleSupélec, Master of Data Science and Business Analytics-M1, 15h (en)	
<b>Growth and Inequality Economics</b>	Fall 2020, 2021
CentraleSupélec, Master of Engineering-M1, 4.5h (fr)	
<b>Economic Modelling of Climate Change</b>	Spring 2019, 2020, 2021
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>	
<b>Environmental Economics</b>	Spring 2020, 2021, 2022
CEA, Master in Nuclear Energy, 9h (en)	

Guests Lectures

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

Tutorials

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

Online courses/MOOC

<b>EUSL – Energy Capacity Building and Circular Economy in Sri Lanka (digital Master)</b>	2022
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	

## CONFERENCES AND SEMINARS

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**2025:** SEMINARS: UK Department for Energy Security and Net Zero (DESNZ), London (July)  
CONFERENCES & WORKSHOPS: Oxford Economics of Sustainability workshop, Oxford (May), Productivity Research Conference, Manchester (Sept)

**2024:** SEMINARS: Oxford Environmental Economics seminar (Jan), Dutch National Bank Economics Seminar (Dec)  
CONFERENCES & WORKSHOPS: Oxford Economics of Sustainability workshop, Oxford (May); 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

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

## REFERENCES

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<b>Prof. Samuel Fankhauser</b> University of Oxford	<a href="mailto:sam.fankhauser@smithschool.ox.ac.uk">sam.fankhauser@smithschool.ox.ac.uk</a>
<b>Dr. François Lafond</b> University of Oxford	<a href="mailto:francois.lafond@inet.ox.ac.uk">francois.lafond@inet.ox.ac.uk</a>
<b>Prof. Pascal da Costa</b> Université Paris-Saclay - CentraleSupélec	<a href="mailto:pascal.da-costa@centralesupelec.fr">pascal.da-costa@centralesupelec.fr</a>
<b>Dr. Frédéric Ghersi</b> CNRS-CIRED	<a href="mailto:frederic.ghersi@cnrs.fr">frederic.ghersi@cnrs.fr</a>

## **MISCELLANEOUS**

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**Languages:** French (native), English (fluent), Spanish (conversational), Italian (beginner)

**Software:** R, Python, VBA (excel), SQL, Mathematica, L<sup>A</sup>T<sub>E</sub>X