

# FRANCESCO GRANELLA

RFF-CMCC European Institute on Economics and the Environment - Milan, Italy

✉ [francesco.granella \[at\] cmcc.it](mailto:francesco.granella[at]cmcc.it)

[francescogranella.github.io](https://francescogranella.github.io)

May, 2025

## POSITIONS & AFFILIATIONS

---

<b>RFF-CMCC European Institute on Economics and the Environment</b> Jr Scientist	<b>Jan 2025 – Present</b> Milan, Italy
<b>RFF-CMCC European Institute on Economics and the Environment</b> Postdoctoral fellow	<b>Jan 2023 – Dec 2024</b> Milan, Italy
<b>University of California, Davis</b> Visiting Scholar, Frances Moore's lab	<b>2021 – 2022</b> Davis, CA, USA
<b>RFF-CMCC European Institute on Economics and the Environment</b> Post-Degree Junior Researcher	<b>2018 – 2022</b> Milan, Italy
<b>COVID Crisis Lab, Bocconi University</b> Affiliated student	<b>2020– Present</b> Milan, Italy
<b>GREEN Research Center, Bocconi University</b> Affiliated student	<b>2018– Present</b> Milan, Italy
<b>Fondazione Eni Enrico Mattei</b> Post-Degree Junior Researcher	<b>Oct 2016 – Jul 2018</b> Milan, Italy

## EDUCATION

---

<b>Bocconi University</b> PhD in Public Policy & Administration	<b>2017 – Jan 2023</b> Milan, Italy
<b>Bocconi University</b> MSc in Economic and Social Sciences	<b>2013 – Apr 2016</b> Milan, Italy
<b>Sciences Po Paris</b> Exchange program	<b>2014</b> Paris, France
<b>Bocconi University</b> BSc in Int. Economics, Management and Finance	<b>2013 – 2016</b> Milan, Italy
<b>Inspere</b> Exchange program	<b>2012</b> São Paulo, Brazil

## PUBLICATIONS

---

- Stefania Renna, Francesco Granella, Lara Aleluia Reis, and Paulina Antipa (2025) "CLAQC v1. 0 - Country Level Air Quality Calculator: an empirical modeling approach", *Geoscientific Model Development* [\[Link\]](#)[\[Replication\]](#)
- Stefania Renna, Francesco Granella, Lara Aleluia Reis, Paulina Schulz-Antipa (2025) "CLAQC v1.0 - Country Level Air Quality Calculator: an empirical modeling approach" *Geoscientific Model Development* [\[Link\]](#)
- Stefania Renna, Francesco Granella, Jacopo Lunghi, Michele Malpede, and Damiano Di Simone (2024) "Impacts of agriculture on PM10 pollution and human health in the Lombardy region in Italy", *Frontiers in Environmental Science* [\[Link\]](#)

- Martino Gilli, Matteo Calcaterra, Johannes Emmerling, and Francesco Granella (2024) "Climate Change Impacts on the Within-Country Income Distributions", *Journal of Environmental Economics and Management* [\[Link\]](#)[\[Replication package\]](#)
- Francesco Granella, Stefania Renna, Lara Aleluia Reis (2024) "The formation of secondary inorganic aerosols: A data-driven investigation of Lombardy's secondary inorganic aerosol problem", *Atmospheric Environment*. [\[Link\]](#)
- Bernardo Bastien-Olvera, Mark Conte, Xiaoli Dong, Tania Briceno, David Batker, Johannes Emmerling, Massimo Tavoni, Francesco Granella, and Frances Moore (2023) "Unequal climate impacts on global values of natural capital", *Nature* [\[Link\]](#)
- Bernardo Bastien-Olvera, Francesco Granella, and Frances Moore (2022). "Persistent effect of temperature on GDP identified from lower frequency temperature variability", *Environmental Research Letters*. [\[Link\]](#)[\[Replication package\]](#)
- Francesco Granella, Lara Aleluia Reis, Valentina Bosetti, and Massimo Tavoni (2020) "COVID-19 lockdown only partially alleviates health impacts of air pollution in Northern Italy", *Environmental Research Letters*. [\[Link\]](#)[\[Replication package\]](#)

## WORKING PAPERS

---

- *Climate damages magnified by international trade*. Draft available soon.
- *Climate Change Impacts on the World's Ocean-based Economies, Services and Non-use Values* With Bernardo Bastien-Olvera, Johannes Emmerling, Massimo Tavoni, Jasper Verschuur, Chris Free, William Cheung, Octavio Aburto-Oropeza, Luke Brander, Kate Ricke. Draft available soon.
- *Indoor air quality and student achievement: evidence from a randomized intervention*. With Jacopo Bonan, Stefania Renna, and Alejandro Sarmiento. Under review. [\[Link\]](#).
- *Abatement effort coherent with Citizens's Willingness to Contribute to Fight Climate Change* With Valentina Bosetti, Johannes Emmerling, and Silvia Pianta. Draft available soon.
- *Heterogeneous Effects of Air Pollution on Physical Tasks: Evidence from Amateur Track and Field*. [\[Link\]](#)
- *Campaign Money for Nothing? Understanding the Consequences of a Ban on Corporate Contributions: Evidence from Brazil* With Alexandros Cavgias [\[Link\]](#)

## WORK IN PROGRESS

---

- *Climate Change Data from Twitter* With Matt Sisco, Anna Abatayo, and Soheil Shayeg
- *An empirical model of human perceptions of temperature abnormality* With Matt Sisco
- *The Shadow of the Sun: Rising temperatures and mortality across sectors in Brazil*. With Luis Alejandro Sarmiento
- *Employment dynamics in the aftermath of urban floods*.
- *PATFIND: an algorithm for matching PATSTAT with firm-level data*. With Elena Verdolini
- *Pairwise speech distance in the U.S. Congress: A perspective on polarization*.

## TEACHING

---

- *Social Transformations*, 20 hours, at Bocconi University (graduate, Fall 2025)
- Guest lecturer in *Economics and Econometrics of Air pollution* at Politecnico di Milano (graduate, 2025)
- Guest lecturer in *Synthetic Control Methods and ML for Impact Evaluation* at University of Brescia (graduate, 2024)

- Guest lecturer in Climate Change Impacts at Bocconi University (undergraduate, 2023)
- Guest lecturer in Data Science at University of Aosta (undergraduate, 2020)

## TEACHING ASSISTANSHIPS

---

- Climate Change Economics (Undergraduate), prof. Valentina Bosetti, 2021, 2022, 2023, 2024.
- Applications for Management (Undergraduate statistical analysis), prof. Alessia Melegaro, 2019, 2020.
- Political Science and Comparative Politics (Undergraduate), prof. Piero Stanig and prof. Livio Di Lonardo, 2019, 2020.
- Comparative Politics: Institutions and Institutional Development (Graduate), prof. Piero Stanig, 2020.

## SUPERVISION

---

- Carlotta Patroni, "*Biodiversity and climate change: the role of natural capital investments in a coupled economy-climate model*", MSc in Mathematical Engineering @ Politecnico di Milano, Co-supervision with Massimo Tavoni, 2024.

## CONFERENCES & WORKSHOPS

---

- Environmental and Resource Economics:
  - Integrated Assessment Modelling Consortium (IAMC) 2024 (declined)
  - Annual Conference of the French Association of Environmental and Resource Economists (FAERE) 2023
  - The Economics of Air Pollution Workshop @ Stockholm School of Economics 2022
  - Meeting of the American Association of Environmental and Resource Economists at the Annual Conference of the Southern Economic Association (AERE @ SEA) 2021
  - Annual Conference of the European Association of Environmental and Resource Economists (EAERE) 2021
  - Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE) 2019, 2021, 2025
- Political Science:
  - Annual Conference of the European Political Science Association (EPSA) 2021
  - Annual Conference of the American Political Science Association (APSA) 2020
  - Annual Conference of the Midwestern Political Science Association (MPSA) 2020
- Computational Social Sciences:
  - International Conference for Computational Social Science (IC2S2) 2019 (poster)
- Organizer: Seminar series @ RFF-CMCC European Institute on Economics and the Environment
- Organizer: Climate Impacts Working Group @ RFF-CMCC European Institute on Economics and the Environment
- Organizer: EIEE Summer School on Integrated Assessment Models, 2023

## SERVICE

---

Referee for: *Nature Climate Change*, *iScience*, *Environmental Research Letters*, *Climatic Change*, *Environmental Research Communications*, *Environmental Science and Pollution Research*.

## PROJECT MANAGEMENT

---

- Task leader, 101081369 Horizon Europe programme ("SPARCCLE"). 2023 - Present
- Task leader, 101081604 Horizon Europe programme ("PRISMA"). 2023 - Present

## GRANTS & FUNDS

---

- Co-winner, *INHALE: Impact on humaN Health of Agriculture and Livestock Emissions*, WP1. PI: Lara Aleluia Reis. (€125,000)
- GEMCLIME (Global Excellence in Modelling of Climate and Energy) project - Secondment research allowance (€14,000)
- Invernizzi PhD Financial Aid (€22,000)

## AWARDS

---

- 2023-2024 Bocconi Teaching Award, a university-wide award for excellence in teaching with a €2500 prize.
- EAERE 2021 Conference Participation Grant.
- PhD Fellowship, Bocconi University. 4-year full scholarship for the PhD in Public Policy and Administration.
- *Cum laude* honours, MSc in Economic and Social Sciences. University.

## COMPUTER SKILLS

---

Python, Stata, R, GAMS, Git,  $\LaTeX$ , HPC

## CONSULTANCY

---

- 2020-2022: Air pollution emissions-concentrations functions using machine learning, for the World Bank.
- 2019: Assessment of transport demand using mobile phone data for Trenitalia SpA.
- 2019: Assessment of market potential for firms in Lombardy and simulations of the impact of changes in transport costs, for the Union of the Chambers of Commerce of Lombardy.

## NON-ACADEMIC EXPERIENCE

---

### OECD Development Centre

Jr Policy Analyst

**Jul – Oct 2015**

Paris, France

### OECD Development Centre

Trainee

**Jan – Jul 2015**

Paris, France

## LANGUAGES

---

English: Full professional proficiency  
Portuguese: Full professional proficiency  
French: Limited professional proficiency  
Italian: Mother tongue

## REFERENCES

---

### Valentina Bosetti

Professor of Economics  
Department of Economics  
Bocconi University  
[valentina.bosetti@unibocconi.it](mailto:valentina.bosetti@unibocconi.it)

### Frances C. Moore

Associate Professor  
Department of Environmental  
Science and Policy  
University of California, Davis  
[fmoore@ucdavis.edu](mailto:fmoore@ucdavis.edu)

### Johannes Emmerling

Senior Scientist  
RFF-CMCC European Institute on  
Economics and the Environment  
[johannes.emmerling@cmcc.it](mailto:johannes.emmerling@cmcc.it)