

FRANCESCO GRANELLA

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

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POSITIONS & AFFILIATIONS

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

EDUCATION

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

PUBLICATIONS

- 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 Simine (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. Draft available soon.
- *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*. [\[Link\]](#)
- *Country Level Air Quality Calculator. An empirical modelling approach*. With Stefania Renna, Lara Aleluia Reis, and Paulina Antipa [\[Link\]](#)
- *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

- 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

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Department of Economics
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Frances C. Moore

Associate Professor
Department of Environmental
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Johannes Emmerling

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