

Francesco Granella

Environmental Economist · Climate Impacts

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PROFILE

I am an environmental economist with ten years of experience turning environmental data into estimates of economic damages. As an experienced professional, I use applied econometrics and ML to quantify damages from large climate and economic datasets, and I carry them into scenario analysis with integrated assessment models. Trained at the research frontier, I have authored papers in *Nature* and *Nature Climate Change*; I was adviser to the World Bank and the Asian Development Bank, and task leader on Horizon Europe projects. I build reproducible Python and R workflows, and explain results to non-technical audiences.

PROFESSIONAL EXPERIENCE

RFF-CMCC European Institute on Economics and the Environment **2018 – Present**
Jr Scientist (2025–) · Postdoctoral Fellow (2023–24) · Post-Degree Junior Researcher (2018–22) Milan, Italy

- IPCC Contributing Author (WGII AR7), expert on climate impacts and impacts modelling.
- Institute leader of the Climate Impacts Working Group.
- Task leader on Horizon Europe projects, coordinating work across disciplines and institutions.
- Estimated the economic damage of weather and temperature from both large-scale firm-level data and macroeconomic data: effects of weather shocks on the output of 2 million firms; persistence of climate shocks on GDP; effects of climate change on within-country income distributions.
- Co-authored global damage assessments: accounting for ocean impacts nearly doubles the social cost of carbon; climate damages through natural capital depletion (*Nature*, 2024).
- Quantified pollution exposure and assessed health and economic cost with ML; developer tools to predict country-level air quality. (*GMD*, 2025). Co-winner of the €125,000 INHALE grant (WP1).

Bocconi University **Sep 2023 – Present**
Academic Fellow Milan, Italy

- Instructor - Climate Change Economics

University of California, Davis **2021 – 2022**
Visiting Scholar Davis, USA

Fondazione Eni Enrico Mattei **2016 – 2018**
Pre-Doctoral Fellow Milan, Italy

The Organisation for Economic Co-operation and Development (OECD) **2015**
Jr Consultant (2015) · Trainee (2015) Paris, France

Other positions

Teaching causal inference, machine learning for impact evaluation at Politecnico di Milano, U. di Brescia, U. di Aosta.

APPLIED AND ADVISORY PROJECTS

2026 Asian Development Bank: assessment of ocean-related climate impacts.
2020–22 World Bank: air pollution emissions–concentrations functions using machine learning.
2019 Union of the Chambers of Commerce of Lombardy: market potential of Lombard firms and simulated impact of changes in transport costs.
2019 Trenitalia SpA: transport demand assessment using mobile phone data.

EDUCATION

2017–2023 PhD in Public Policy and Administration, Bocconi University.
2013–2016 MSc in Economic and Social Sciences (*cum laude*), Bocconi University.
2010–2012 BSc in Economics, Management, and Finance, Bocconi University.
2014 (Visiting), MSc in Economics and Public Policy, SciencesPo, Paris
2012 (Visiting) BSc in Economics, Instituto de Ensino e Pesquisa (Insper), São Paulo, Brazil

SKILLS AND LANGUAGES

Methods Damage and impact estimation, causal inference, machine learning, integrated assessment modelling, health impact assessment.
Tools Python, Stata, R, Julia, GAMS, Git, HPC; Agentic AI; high-resolution climate and economic data; reproducible pipelines.
Languages Italian (mother tongue); English and Portuguese (full professional); French (limited professional).