

# Francesco Granella

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## CURRENT POSITIONS & AFFILIATIONS

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<b>Bocconi University</b> PhD student, Public Policy & Administration	<b>2017 – Present</b> Milan, Italy
<b>University of California, Davis</b> Visiting Scholar	<b>2021 – 2022</b> Davis, CA, USA
<b>RFF-CMCC European Institute on Economics and the Environment</b> Junior Scientist	<b>Jul 2018 – Present</b> Milan, Italy

## EDUCATION

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<b>Bocconi University</b> PhD in Public Policy & Administration	<b>2017 – Present</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>Inspira</b> Exchange program	<b>2012</b> São Paulo, Brazil

## PUBLICATIONS

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- 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*, doi: <https://doi.org/10.1088/1748-9326/abd3d2>

*Evaluating the reduction in pollution caused by a sudden change in emissions is complicated by the confounding effect of weather variations. We propose an approach based on machine learning to build counterfactual scenarios that address the effect of weather and apply it to the COVID-19 lockdown of Lombardy, Italy. We show that the lockdown reduced background concentrations of PM<sub>2.5</sub> by 3.84  $\mu\text{g}/\text{m}^3$  (16%) and NO<sub>2</sub> by 10.85  $\mu\text{g}/\text{m}^3$  (33%). Improvement in air quality saved at least 11% of the years of life lost and 19% of the premature deaths attributable to COVID-19 in the region during the same period. The analysis highlights the benefits of improving air quality and the need for an integrated policy response addressing the full diversity of emission sources.*

## WORKING PAPERS

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- You Can't Run from Air Pollution. The Effect of Pollution on Physical Tasks [\[Link\]](#)
- Is (campaign) money for nothing? The effects of the 2015 Brazilian ban on corporate contributions on procurement outcomes and other forms of campaign contributions. With Alexandros Cavgias [\[Link\]](#)

## WORK IN PROGRESS

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- 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.*
- *Environmental policy stringency and international collaboration in inventive activity. Evidence from the wind power sector.* With Elena Verdolini

## TEACHING ASSISTANSHIPS

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

## CONFERENCES

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- Environmental and Resource Economics
  - SEA 2021
  - EAERE 2021
  - IAERE 2019, 2021
- Political Science
  - EPSA 2021
  - APSA 2020
  - MPSA 2020
- Computational Social Sciences
  - IC2S2 2019 (poster)

## GRANTS

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- Co-winner, *INHALE: Impact on humaN Health of Agriculture and Livestock Emissions*, WP1. PI: Lara Aleluia Reis. (€125,000)

## AWARDS

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- EAERE 2021 Conference Participation Grant.
- PhD Fellowship, Bocconi University. Full scholarship for the PhD in Public Policy and Administration.
- *Cum laude* honours, MSc in Economic and Social Sciences. University.

## COMPUTER SKILLS

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Stata, Python,  $\LaTeX$ , R

## LANGUAGES

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

## CONSULTANCY

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- 2020-2021: 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.

## EXPERIENCE

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<b>RFF-CMCC European Institute on Economics and the Environment</b> Junior Scientist	<b>Jul 2018 – Present</b> Milan, Italy
<b>Euro-Mediterranean Center for Climate Change (CMCC)</b> Post-Degree Junior Researcher	<b>Oct 2016 – Present</b> Milan, Italy
<b>Fondazione Eni Enrico Mattei (FEEM)</b> Post-Degree Junior Researcher	<b>Oct 2016 – Jul 2018</b> Milan, Italy
<b>OECD Development Centre</b> Jr Policy Analyst	<b>Jul – Oct 2015</b> Paris, France
<b>OECD Development Centre</b> Trainee	<b>Jan – Jul 2015</b> Paris, France