

# Antonio Barchi

Ph.D. candidate at Politecnico di Torino



<https://antoniobarchi.github.io/>

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## RESEARCH INTERESTS

**Industrial organization and innovation. The functioning of markets. Carbon credits markets, green technologies, eco-innovations and circular economy. Competition and industrial economics.**

I am a trained industrial economist mainly dealing with topics of innovation. The core areas of my investigation include eco-innovation and the role of new technologies in steering the green transition, as well as the functioning of markets for carbon credits and transition policies for carbon-intensive sectors. My doctoral thesis revolved around the Carbon Capture & Storage class of technologies and their impacts on firms active in the oil and energy industries. During my doctorate and subsequent work, I broadened my research scope to include electricity markets and stochastic frontier estimations for firms in regulated sectors. I also began working on industrial organization issues related to innovation, focusing in particular on the role of sector concentration and technological diversity. I am interested in inequalities and social implications of green economic policies.

## EDUCATION

JANUARY 2024 – JULY 2025

### Visiting research fellowship

SUPERVISION: PROF. JOËLLE NOAILLY

*Centre for International and Environmental Studies (CIES)*

IHEID - Geneva Graduate Institute (Geneva, Switzerland)

2022 – 2025

### Ph.D. Scientific, Technological and Social Methods Enabling Circular Economy

SUPERVISION: PROF. CARLO CAMBINI, CO-SUPERVISION: PROF. FRANCESCO QUATRARO

*Department of Management and Production Engineering*

Politecnico di Torino (Turin), Università di Padova (Padua), Italy

2021 – 2022

### M.Sc. - Double Degree program in Economics

MENTION: DISTINCTION (15,22/20 GPA)

*Economics School of Louvain*

Université Catholique de Louvain (Louvain-La-Neuve, Belgium)

2020 – 2022

### M.Sc. - Economics and Political Sciences

GRADE: 109/110

*Economics, Management and Quantitative Methods*

"La Statale" University (Milan, Italy)

2017 – 2020

### B.Sc. Economics and Management for Arts, Culture and Communication

*Economics and Management*

Bocconi University (Milan, Italy)

## WORK EXPERIENCE

OCTOBER 2025 – OCTOBER 2026

Politecnico di Torino

**Research fellow**

SEPTEMBER 2024 – DECEMBER 2025

Politecnico di Torino

**Lecturer**

Last update: October 31, 2025.

Bocconi University (ICRIOS)

***Assistant Research Analyst - Intern***

Co-author in chapter 1 and 6 of final published work: Giordano, F., Salvato, C., & Sangiovanni, E. (2021). Il carcere. Assetti istituzionali e organizzativi. EGEA. (with prefaction cured by Marta Cartabia)

## COMPUTER SKILLS

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BEGINNER	Matlab, HTML
INTERMEDIATE	L <sup>A</sup> T <sub>E</sub> X, SQL (MySQL), Python (Pandas, Geopandas, NumPy, Matplotlib)
EXPERT	STATA, Microsoft Office

## COMMUNICATION SKILLS

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BASIC	French
FLUENT	English, Italian

## PUBLICATIONS

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Barchi & Rondi (2025). “Does carbon capture & storage mitigate carbon premium? Evidence from patents”. *Working Paper*

Barchi & Rondi (2025). “Green and brown CCUS patents. Is the stock market color-blind?”. *Working Paper*

Barchi (2025). “Government financing and innovation crowding-out in the EU CCS sector”. *Working Paper*

Barchi, Illich & Rondi (2025). “Green transition and decarbonization projects: Are we doing enough?”. *Working Paper*

Barchi, Illich, Monaco & Rondi (2025). “What drives the success or failure of CCU projects?”. *Working Paper*

Barchi (2025). “Does R&D concentration reduce technological diversity? Evidence from global top innovators”. *Working Paper*

## CONFERENCES PRESENTATIONS

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CONFERENCES	IIOC - <i>Boston, 2024</i> SIEPI - <i>Bergamo, 2024, Bologna, 2025</i> EARIE - <i>Amsterdam, 2024, Valencia, 2025</i>
SUMMER SCHOOL	“Sustainable finance and entrepreneurship for the transition to a green economy”, <i>Bologna, 2024</i> “Industrial Economics and Industrial Policy - SIEPI Summer School”, <i>Bertinoro, 2024</i>