


Matteo Calcaterra

PHD CANDIDATE · MANAGEMENT, ECONOMICS AND INDUSTRIAL ENGINEERING

Politecnico di Milano, Via Lambruschini 4/B, Milano, Italy

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Education

Politecnico di Milano

Milano, Italy

PHD CANDIDATE IN MANAGEMENT, ECONOMICS AND INDUSTRIAL ENGINEERING

Nov. 2021 - present

- Thesis title: *Advances in Modelling Finance amid Climate Change: Adequacy and Examples*
Advisor: Prof. Massimo Tavoni

Bocconi University

Milano, Italy

M.Sc. IN DES-ESS – ECONOMIC AND SOCIAL SCIENCES

Sep. 2018 - Apr. 2021

- Thesis title: *Government in RICE50+: a Quantitative Exploration*
Advisor: Prof. Valentina Bosetti
- Grade: 106/110

Bocconi University

Milano, Italy

B.Sc. IN INTERNATIONAL ECONOMICS AND FINANCE

Sep. 2015 - Sep. 2018

- Major in Economics
- Grade: 105/110

Waseda University

Tokyo, Japan

UNDERGRADUATE EXCHANGE PROGRAM - ECONOMICS

Mar. 2018 - Aug. 2018

Professional Experience

RFF-CMCC European Institute on Economics and the Environment

Milano, Italy

VISITING PHD STUDENT – SUSTAINABLE EARTH MODELLING ECONOMICS

Nov. 2021 - present

- Developed Integrated Assessment Models (RICE50+, WITCH)
- Contributed to Horizon Europe projects PRISMA, ELEVATE

Resources For the Future

Washington, D.C., USA

VISITING PHD STUDENT

Sep. 2023 - Feb. 2024

European Investment Bank

Luxembourg, Luxembourg

TRAINEE, TMR – COUNTERPARTY MANAGEMENT – PUBLIC SECTOR DIVISION

Mar. 2021 - Jul. 2021

- Portfolio Analysis, Project Monitoring Reports, Credit Counterpart Reviews

European Commission

Luxembourg, Luxembourg

INTERN, DG ECFIN UNIT DDG2.01: COORDINATION WITH THE EIB, EBRD AND OTHER IFIS

Sep. 2019 - Dec. 2019

- Responsible for reviewing and condensing the projects to be financed by the EIB

UniCredit

Milano, Italy

CORPORATE AND INVESTMENT BANKING MARKETING AND COMMUNICATION INTERN

May 2017 - Oct. 2017

Publications

PUBLISHED

- Calcaterra M.**, Aleluia Reis L., Fragkos P., Briera T., de Boer H.S., Egli F., Emmerling J., Iyer G., Mittal S., Polzin F.H.J., Sanders M.W.J.L., Schmidt T.S., Serebriakova A., Steffen B., van de Ven D.J., van Vuuren D.P., Waidelich P., and Tavoni, M. (*Forthcoming*). Reducing cost of capital to finance the energy transition in developing countries: a multi-model analysis. *Nature Energy*
- Gilli M., **Calcaterra M.**, Emmerling J., and Granella F. (2024). Climate change impacts on the within-country income distributions. *Journal of Environmental Economics and Management*, Volume 127, 103012
- Tavoni M., Andreoni P., **Calcaterra M.**, Calliari E., Deubelli-Hwang T., Mechler R., Hochrainer-Stigler S., and Wenz L. (2024). Economic quantification of Loss and Damage funding needs. *Nature Reviews Earth & Environment* Volume 5, 411–413.
- Shayegh S., Reissl S., Roshan E., and **Calcaterra M.** (2023). An assessment of different transition pathways to a green global economy. *Communications Earth & Environment* Volume 4, 448.

WORKING PAPERS

- Calcaterra M.**, Consiglio A., Martorana V., Tavoni M., and Zenios S., Sovereigns on thinning ice: Debt sustainability, climate impacts, and adaptation.
- Calcaterra M.**, Imperfect information, profit-driven firms, and the challenge of designing effective climate policies

Presentations

INVITED TALKS

May 2023. *IAMs and Climate Finance – Transition Risk*. Remote talk: Deloitte Sustainability Seminars.

CONTRIBUTED PRESENTATIONS

- Jul. 2024. Reducing Cost of Capital to Finance the Energy Transition in Developing Countries. Webinar presentation: ELVATE webinar series.
- Jun. 2024. Reducing Cost of Capital to Finance the Energy Transition in Developing Countries. Oral presentation: WWCS (What Works Climate Solutions), Berlin Technical University, Berlin, Germany.
- Oct. 2023. Reducing Cost of Capital to Finance the Energy Transition in Developing Countries: A Multi-Model Analysis. Remote presentation: ECEMP 2023 (European Climate+Energy Modelling Platform).
- Sept. 2023. Friends of RFF, Resources For the Future, Washington, D.C., USA.
- Nov. 2022. Renewable Energy Cost of Capital: Financial learning and de-risking policies. Oral presentation: IAMC (Integrated Assessment Modelling Consortium) 15th Annual Meeting, College Park, MD, USA.

Awards, Fellowships, & Grants

2023	GEOCEP - Global Excellence in Modeling Climate and Energy Policies , European Union's Horizon 2020 research and innovation programme	\$ 12,000
2021	Full PhD Scholarship , Politecnico di Milano – DIG	
2018	Waseda Exchange Student Scholarship , Waseda University	¥ 400,000

Teaching Experience

Spring 2024	Environmental Economics , Teaching Assistant (course held in Italian)	<i>Politecnico di Milano</i>
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Mentoring

2021-2022 **Adrien Hallard**, Master thesis

Outreach & Professional Development

OUTREACH & POLICY BRIEFS

Policy Brief: Understanding and quantifying the Loss and Damage policy space, *IIASA & CMCC COP29 policy brief*, Mechler R., Calliari E., Tavoni M., **Calcaterra M.** (November 2024)

Research briefing, Fair energy finance increases global equity in the green energy transition, *Nature Energy*, **Calcaterra M.**, Tavoni M. (October 2024)

DEVELOPMENT

TI Economics Lectures 2023, summer school on state-of-the-art methods in environmental economics, taught by Hunt Alcott. Tinbergen Institute, Amsterdam, Netherlands

ENGAGE/NAVIGATE Summer School 2023, on Integrated Assessment Modelling and climate macroeconomics. RFF-CMCC EIEE, Villa del Grumello, Como, Italy

PEER REVIEW

Current opinion in environmental sustainability

Skills

TECHNICAL SKILLS

R, GAMS, Excel: Advanced

LaTeX, Word, Power Point: Professional proficiency

KNIME, VBA: Intermediate

Bash, Stata, Python: Basic

LANGUAGES

Italian: Mother tongue

English: Fluent (114/120 TOEFL - May 2021)

French: Intermediate