

ALESSANDRO TAVONI

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Academic Positions

- 2023- Professor, Economics Department - *University of Bologna*
- 2022 Associate Professor, Economics Department - *University of Bologna*
- 2019–21 Senior Assistant Professor (tenure track associate position, “RTDb”), Economics Department - *University of Bologna*
- 2017–18 Associate Professor, Grantham Research Institute - *LSE* (from 1 August 2017)
- 2015–17 Assistant Professor, Grantham Research Institute - *LSE*
- 2013–14 Research Fellow, Grantham Research Institute - *LSE*
- 2011– Seminar Leader in ‘Climate change: science, economics and policy’ (MSc) - *LSE*
- 2008–2015 Associate Researcher, Fondazione Eni Enrico Mattei (*FEEM*)
- 2011–12 Postdoc, Centre for Climate Change Economics and Policy - *LSE*
- 2010 Fellow, Centre for European Economic Research (*ZEW*)
- 2008–09 Visiting Research Collaborator, *Princeton University* and *Autonoma University of Barcelona*

Education

- 2010 CÀ FOSCARI UNIVERSITY OF VENICE
Ph.D. in Economics ('Essays on Fairness Heuristics and Environmental Dilemmas'), September 2010
- 2004 CORNELL UNIVERSITY
1st year Ph.D. curriculum in Applied Economics and Management
- 2003 SAN FRANCISCO STATE UNIVERSITY
Masters in Economics, January 2004
- 2001 UNIVERSITÀ DI BOLOGNA
Bachelor degree in Economics, March 2001
- 2000 UNIVERSITY OF CALIFORNIA AT BERKELEY
Exchange Abroad Program

Research Interests

Game Theory; Behavioral Economics; Social Tipping; International Environmental Agreements; Coupled Social-Ecological Systems; Trade Networks and Food Security

Working Papers and Work in Progress

- Castellani D, Tavoni A and D’Odorico P. The socio-economic dimension of food security: an index for country-level analyses. *Submitted*.
- Hyoyoung K, Iris D, Lee J, Tavoni A. Representation, Peer Pressure and Punishment in a Public Goods Game. R&R.
- Casari M and Tavoni A. “I will if you will” in climate cooperation. *To be submitted*.
- Tavoni A, Iris D. When Fairness Bends Rationality: Incorporating Inequity-Aversion in Models of Regretful and Noisy Behavior. *To be submitted*.
- 2021 Gosnell G, Carattini S and Tavoni A. Observing the unobservable: A field experiment on early adopters of a climatefriendly behavior. Centre for Climate Change Economics and Policy Working Paper 393/Grantham Research Institute on Climate Change and the Environment Working Paper 365. London: London School of Economics and Political Science
- 2020 Breen, Trevor, Tavoni, Alessandro. Guards vs Vigilantes: The Effect of Rule Enforcement Strategies on Sustainable Use Norms in Common Property Regimes. Bologna: Dipartimento di Scienze economiche, p. 20. DOI 10.6092/unibo/amsacta/6564. In: Quaderni - Working Paper DSE (1157). ISSN 2282-6483.

Research Publications

- 2024 “Subsidies: Good or Bad News for Society and the Planet?”. With K. Segerson et al. **Science** 386, 6717
- 2024 “Strategic dimensions of solar geoengineering: Economic theory and experiments” With D Heyen. **Journal of Behavioral and Experimental Economics** 112, 102271
- 2024 “From Niches to Norms: The Promise of Social Tipping Interventions to Scale Climate Action”. With V. Pizziol, **npj Climate Action** 3, 46
- 2024 “Climate clubs in the laboratory”. *Journal of Behavioral and Experimental Economics* 110. With M. Casari
- 2024 “Integrating evolutionary theory and social–ecological systems research to address the sustainability challenges of the Anthropocene”. **Philosophical Transactions of the Royal Society B** 379. With T.E. Currie et al.
- 2023 “Response diversity as a sustainability strategy”. *Nature Sustainability*. With B. Walker, et al.
- 2022 “WTO must ban harmful fisheries subsidies”. *Science*, 374. With U. Sumaila, et al.
- 2021 “Domestic Pressure and International Climate Cooperation”. *Annual Review of Resource Economics*, 13. With R. Winkler
- 2020 “How developed countries can learn from developing countries to tackle climate change”. *World Development* , 127. With S. Carattini and G. Gosnell
- 2020 “Monitoring and punishment networks in an experimental common pool resource dilemma”. *Environment and Development Economics*, 1-29. With G. Shreedhar and C. Marchiori

- 2020 "Simulating the cascading effects of an extreme agricultural production shock: global implications of a contemporary US Dust Bowl event". *Frontiers in Sustainable Food Systems* 4, 26. With A. Heslin et al.
- 2019 "Delegation and Public Pressure in Threshold Public Goods Game". *Environmental and Resource Economics*, 74(3), 1331-1353. With D. Iris and J. Lee
- 2019 "Cooperation in the Climate Commons". *Review of Environmental Economics and Policy*, 13 (2). With S. Carattini and S. Levin
- 2018 "Loss Aversion in International Environmental Agreements". *Environmental and Resource Economics Review*, 27. With D. Iris
- 2017 "The Perceived Success of Climate Negotiations". *Nature Climate Change*, 7. With A. Dannenberg and S. Zitzelsberger
- 2017 "A Bargaining Experiment on Side Deals among Heterogeneous Countries in Climate Negotiations". *Climatic Change*, 2017. With G. Gosnell
- 2017 "Domestic politics and the formation of international environmental agreements". *Journal of Environmental Economics and Management*, 81, 115-131. With S. Dietz and C. Marchiori
- 2017 "Luring others in: Coalition formation games with threshold and spillover effects". *Oxford Economics Papers*, 69 (2). With M. Heugues and V. Bosetti
- 2017 "When it pays to play: using climate-change insurance to incentivize cooperative mitigation". *Ecological Economics*, 135. With C. P. Doncaster and J. G. Dyke
- 2017 "Long-term scenarios: Energy pathways in the UK". *Nature Energy*, 2.
- 2017 "Resilience in the global food system". *Environmental Research Letters*, 12 (2). With Seekell D. et al.
- 2016 "How green are green economists?" *Economics Bulletin*, 36 (4). With S. Carattini
- 2016 "Reserves and trade jointly determine exposure to food supply shocks". *Environmental Research Letters*, 11 (9). With P. Marchand et al.
- 2016 "Past and present biophysical redundancy of countries as a buffer to changes in food supply". *Environmental Research Letters*, 11 (5). With M. Fader et al
- 2016 "Robustness of norm-driven cooperation in the commons" *Proceedings of the Royal Society B*, 283 (1822). With M. Schlueter and S. Levin
- 2015 "Network Economics and the Environment: Insights and Perspectives" *Environmental and Resource Economics*, 65 (1). With S. Currarini, C. Marchiori
- 2015 "On the Provision of Public Goods with Probabilistic and Ambiguous Thresholds" *Environmental and Resource Economics*, 61 (3), 365-383. With A. Dannenberg, et al.
- 2014 "Managing the climate commons at the nexus of ecology, behavior and economics" *Nature Climate Change*, 4, 1057-1063. With S. Levin
- 2014 "Evolutionary escape from the climate dilemma" *Physics of Life Reviews*, 11 (4), 587-588.
- 2014 "Climate engineering reconsidered" *Nature Climate Change*, 4 (7), 527-529. With S. Barrett, et al
- 2013 "Game theory: Building up cooperation" *Nature Climate Change*, 3 (9), 782-783

- 2013 “Regime shifts in a social-ecological system” *Theoretical ecology* 6 (3), 359-372. With S.J. Lade, et al.
- 2012 “The survival of the conformist: Social pressure and renewable resource management” *Journal of Theoretical Biology* 299. With M.Schlueter and S.Levin
- 2011 “Inequality, communication, and the avoidance of disastrous climate change in a public goods game” *Proceedings of the National Academy of Science* 108,11825–11829. With A.Dannenberg, et al

Books, Chapters, Blogs and non-refereed Journals

- 2023 “Behavioural economics and the environment: A research companion”. With A. Bucciol and M. Veronesi. *Routledge & CRC Press*.
- 2020 “Tipping and reference points in climate change games”. With İriş, Doruk. In: *Handbook on the Economics of Climate Change*, Cheltenham, Edward Elgard Publishing, pp. 239 - 258
- 2017 “Think locally, act globally” With S. Carattini. *LSE Business Review*. Available at link
- 2016 Chapter 18 in *The Economics of Environmental Policy Behavioral and Political Dimensions*, Edward Elgar Publishers. Edited by T. Sterner and J. Coria. ISBN 9781783473373
- 2016 “Collective Action in Dangerous Climate Change Games”, with A. Dannenberg. Chapter in press: *WSPC Reference of Natural Resources and Environmental Policy in the Era of Global Change*, Vol. 4, Experimental Economics.
- 2016 “When enough countries lead by example, they create a tipping point for climate agreements” With D. Iris. *LSE Business Review*. Available at link
- 2016 “How green are economists?” With S. Carattini. *Inogov blog*. Available at link
- 2015 “COP21: Can game theory predict a global deal on climate change?”. *LSE GRI News*. Available at link
- 2015 “Carbon pricing might be the unlikely winner of the Volkswagen scandal”. With S. Carattini. *LSE Politics and Policy*. Available at link
- 2015 “Inequality in Climate Change Games”. Invited article for *Perspectives 2*. Available at link
- 2015 Chapter 43 in *Game Theory and International Environmental Cooperation: Essential Readings*, Edward Elgar Publishers. Edited by M. Finus and A. Caparrós. ISBN 1782545093
- 2015 “Ecology, Economics and the Management of Global Environmental Commons”. *Review of Environment, Energy and Economics*. Available at link
- 2014 “Climate negotiations: identifying key drivers of cooperation”. *Energy for Knowledge 4*. Available at link
- 2013 “Coordinating to protect the global climate: inequality and communication in the lab”, with A. Dannenberg. In *Analyzing Global Environmental Issues*, Routledge Publishers. Edited by A. Rapoport and A. Dinar
- 2012 “Why do we see unilateral action on climate change?” *Vox EU*. With S Dietz, C Marchiori. Available at link
- 2012 “Coordinating to protect the global climate” *Review of Environment, Energy and Economics*. Available at link

Funding and Awards

- 2024 *EAERE Award for ERC Grants laureates* in the field of environmental and resource economics
- 2023-2028 *European Research Council (ERC), Consolidator Grant* – Awarded €1.8 million as Principal Investigator and sole recipient for “**Green Tipping**”
- 2021 *Abilitazione Scientifica Nazionale, Prima Fascia*. Areas: “13/A2 Politica Economica” and “13/A3 Scienza delle Finanze”. *Ministero dell’Istruzione, dell’Universita’ e della Ricerca*
- 2020-2023 *Swiss National Foundation Grant* – Co-PI on the project “On the Interactions between Domestic and International Policy and the Prospects for International Climate Cooperation”, with Ralph Winkler
- 2018-2023 *Economic and Social Research Council (ESRC), CCCEP Transition Phase* – €200,000 allocated to me as Co-PI (out of €1.3 million awarded)
- 2018 *Abilitazione Scientifica Nazionale*, areas: “13/A1 Economia Politica” and “13/A4 Economia Applicata”, Fascia II. *Ministero dell’Istruzione, dell’Universita’ e della Ricerca*
- 2017 *Abilitazione Scientifica Nazionale*, areas: “13/A2 Politica Economica” and “13/A3 Scienza delle Finanze”, Fascia II. *Ministero dell’Istruzione, dell’Universita’ e della Ricerca*
- 2017–18 *Marshall Institute Grant Scheme - Tile: Peer effects, Rewards, and Image Concerns in Energy Decisions*. Received funding for 18 months for field work on peer effects in green energy demand
- 2013–15 *Enel Foundation* – Principal Investigator and sole recipient of €60,000 (Grant 1-RGI-U885)
- 2011–12 Postdoctoral Fellowship. *LSE*
- 2012 “The survival of the conformist: Social pressure and renewable resource management”. Article evaluated by Faculty of 1000 as top 2% of published articles
- 2009 Conference Grant Scheme award, Royal Economic Society
- 2008 Best poster award, Princeton Research Symposium
- 2006–09 Doctoral Fellowship. *Italian Ministry of Education*
- 2003 Honours graduation, SFSU Master’s Program
- 2000 EAP Student Exchange Fellowship, UC Berkeley
- 1997–00 Scholarships for outstanding academic performance, ENEA (Italian National agency for new technologies, Energy and sustainable economic development)

Service

Editorial Board: *Games; Journal of Risk and Financial Management*

Guest Editor: *Proceedings of the National Academy of Sciences; Journal of Behavioral and Experimental Economics*

Reviewer for the following journals: *Climate Policy, Climate Change Economics, Climatic Change, Climatic Change Letters, Current Opinion in Environmental Sustainability, Ecological Economics, Ecology and Society, Economic Inquiry, Economic Journal, Energy Economics, Energy Policy, Environmental and Resource Economics, Environment and Planning C, European Economics Review, Games, International Journal of Game Theory, International Journal of Climate Change Strategies and Management, Journal of Conflict Resolution, Journal of Economic Behavior and Organization, Journal of Economic Surveys, Journal of Environmental Economics and Management, Journal of the Association of Environmental and Resource Economists, Journal of Public Economics, Journal of Public Economic Theory, Land Economics, Natural Hazards, Natural Resource Modelling, Nature, Nature Climate Change, Nature Energy, Nature Communications, Nature Human Behavior, Nature Sustainability, Oxford Economics Papers, Palgrave Communications, Palgrave Communications, Plos Computational Biology, Plos One, Population Ecology, Proceedings of the National Academy of Sciences, Resource and Energy Economics, Review of Economic Studies, Review of International Organizations, Scandinavian Journal of Economics, Sustainability, Science*

Chair of both the Local Organizing Committee and the Program Committee for the organization of the 27th Annual Conference of the European Association of Environmental and Resource Economists

Funding applications refereeing: *European Research Council - Advanced Grant; ERC Consolidator Grant* (Expert Reviewer for proposals to the SH1 panel). *United States-Israel Binational Science Foundation (BSF)*

Consultant and member of the Scientific Advisory Board, *Food and Agriculture Organization of the United Nations (FAO)*

2020-2026 Member of the Scientific Advisory Board, *Beijer Institute*

2020- Member of the Scientific Council (*Collegio dei docenti*), PhD “Future Earth, Climate Change and Societal Challenges”

2019 Deputy delegate for the UniBo Interdipartementale Climate Change Centre (*Alma Climate*)

2019- Coordinator for the Economics department UniBo: Polo Universitario Penitenziario (to assist inmates at the Bologna prison with undergraduate studies)

2019 Co-organizer: International Workshop on The Economics of Climate Change and Sustainability

2019-2020 Coordinator for Italy: *Coalition Theory Network*

2017-2019 Programme Leader, Changing Behaviour Theme, Grantham Research Institute, LSE.

2017-2019 Organiser, Behavioural Group, Grantham Research Institute, LSE.

2017-2020 Scientific Committee: International Conference on ENVIRONMENTAL ECONOMICS: A FOCUS ON NATURAL RESOURCES

2015. Organizer: International Workshop on “Bottom-up evolution of cooperation: linking local and global environmental commons”, *Grantham Research Institute, LSE*

2015 - present. Co-organizer: *Research Seminar Series, Grantham Research Institute, LSE*

2009. Co-organizer: International Workshop on “Fairness and the Commons: Socio-economic Strategies and Resource Dynamics”, *Fondazione Eni Enrico Mattei*

Teaching Experience

- 2020– Ph.D. supervisor: Giorgio Dini - University of Bologna
- 2019– Lecturer: “Green Technology and Innovation” - University of Bologna
- 2018– Lecturer: “Experimental Environmental Economics” - University of Bologna
- 2017 External Ph.D. co-supervisor, Laura Elsler - Stockholm University
- 2015– Postdoc Line Manager: Greer Gosnell; Teevrat Garg - LSE
- 2014– PhD Examiner: Maria Apergi - LSE (2017); Eleftherios Giovanis - Royal Holloway University (2014)
- 2013– Ph.D. Supervisor: Greer Gosnell (defended); Ganga Shreedhar (3rd year), Leanne Cass (1st year), Daniel Gordon (1st year). Environmental Economics Ph.D. - LSE
- 2012– MSc Dissertation Supervisor: MSc “Environmental Economics and Climate Change” and MSc “Environment and Development” (25 students so far)
- 2012– Research Assistant Manager (5 RAs so far) - LSE
- 2011–2018 Seminar Leader in ‘Climate change: science, economics and policy’ (MSc) - LSE
- 2016 Postdoc Line Manager, Zak Ratajczak (visiting from University of Virginia) - LSE
- 2016 MSc Dissertation Supervisor, Serena del Prete. Visiting student from Sapienza University.
- 2015– Occasional lecturer - University of Reading; Moscow State University; Stirling Management School; African Institute for Mathematical Studies
- 2009–10 Advanced Microeconomics TA (Econ Ph.D) & Microeconomics TA (Econ undergrads), Ca’ Foscari University of Venice

Skills

IT: Mathematica, Stata, Matlab, Qualtrics, zTree, HTML, \LaTeX

Languages: Italian, English, French, Spanish