

Marzio Galeotti

Personal Information

Born in Bergamo (Italy) 19 June, 1955

Citizenship: Italian

Languages Spoken: English (Fluent), French (Scholastic), Italian (Native)

Contact

Department of Environmental Science and Policy (DESP)

Università degli Studi di Milano

Via Celoria 2

I-20133 Milano (Italy)

voice: +39-02-50316470

fax: +39-02-50316486

E-mail: marzio.galeotti@unimi.it

Education

- Ph.D., Economics, 1986, New York University, New York (USA)

- M.Phil., Economics, 1985, New York University, New York (USA)

- Laurea in Discipline Economiche Sociali (cum laude), Università Bocconi, Milano

Research Interests

Environment and Growth, Energy Modeling, Energy Sources, Economics of Climate Change, Green Growth, Investment, Productivity, Factor Demands, Innovation and Technological Change, Production Theory

Teaching Fields

Applied Microeconomics, Energy Economics, Environmental Economics, Microeconometrics, Macroeconometrics, Applied Macroeconomics

Honors and Awards

- Best Paper Award 2014 for article published in *Risk Analysis*

- Dean's Doctoral Fellowship, Graduate School of Arts and Science, New York University, 1985

- Finanziamento alla ricerca, Fondazione per gli Studi Monetari "Luigi Einaudi", Roma, 1983-84

- Borsa "Marco Fanno", Mediocredito Centrale, Roma, 1981-82

- Ph.D. Program Fellowship, Department of Economics, New York University, 1980

Employment

Permanent Positions:

2002-present: Professor of Energy and Environmental Economics (courses taught: Energy and Environmental Economics, Environmental and Natural Resource Economics, Advanced Microeconomics, Microeconomics), Università degli Studi di Milano

1999-2002: Professor of Economics, Università degli Studi di Bergamo

1994-1999: Associate Professor of Economics, Università degli Studi di Bergamo, Bergamo

1992-1993: Associate Professor of Economics, Università degli Studi di Udine, Udine

1986-1992: Assistant Professor of Economics, Università degli Studi di Brescia, Brescia

Professional Experience

Current:

- Director of Scientific Research, FEEM – Fondazione Eni Enrico Mattei, Milan, 2021-present

- Research Fellow, GREEN - Centre for Geography, Resources, Environment, Energy and Networks, Università Luigi Bocconi, Milano, 2009-present
- Visiting Research Fellow, King Abdullah Petroleum Studies and Research Center (KAPSARC), Riyadh, Saudi Arabia, 2014-present
- Review Editor, "Chapter 4: Mitigation and development pathways in the near- to mid-term", Sixth Assessment Report (AR6), IPCC WGIII, 2017-2021
- Co-Chair Task Force 2 "Climate Change, Sustainable Energy and Environment", Think20 Italy, 2021
- Member Editorial Board of *lavoce.info* (resp. Energy and Environment)
- Member Editorial Board of *Economics and Policy of Energy and the Environment*
- Member of the Scientific Committee of Fondazione Lombardia per l'Ambiente, Milan
- Member of Scientific Committee of Centre for Sustainable Future, Rome
- Fellow of Centro Studi Luca D'Agliano
- Member of European Association of Environment and Resource Economists (EAERE), Italian Association of Environmental and Resource Economists (IAERE), International Association of Energy Economists (IAEE), Italian Association of Energy Economists (AIEE), Italian Society of Climate Science (SISC)

Past:

- Associate Editor of *Politica Economica – Journal of Economic Policy*, 2013-2020
- Chairman and Member of the Sustainability Committee of Eurizon Capital Sgr SpA, 2012-2018
- Council Member, Founder and First President of the Italian Association of Environmental and Resource Economists (IAERE), 2014-2017
- Member of the Scientific Committee of Energy Lab Foundation, Milan, 2011-2015
- Academic Expert for "The Road to 2035: Definition of Long-term Scenario for the Enel's Strategic View" of Enel SpA and Enel Foundation, 2013
- Associate Editor of *Energy Economics*, 2004-2014
- Member of the Scientific Committee of *Il Giornale degli Economisti*, 2004-2013
- Member of the Advisory Board of Ambienta Sgr, 2012-2013
- Research Associate, Coordinator of the Climate Change Modeling and Policy Program, Fondazione Eni Enrico Mattei, Milan, 1994-2008
- Expert Reviewer of the Intergovernmental Panel on Climate Change (IPCC) Third, Fourth and Fifth Assessment Reports for Working Group III on Mitigation
- Member of the Italian delegation 9th Session of IPCC Working Group III (Mitigation) April 30 – May 3 2007 and 26th Session of IPCC May 4 2007, Bangkok, Thailand
- Member of the technical-scientific committee for the Energy Action Plan 2006 of the Lombardy Region
- Consultant, Direzione generale del tesoro, Ministero dell'economia e delle finanze, Roma, 1999-2003
- Visiting Research Fellow, C.V. Starr Center for Applied Economics, New York University, 1987
- Junior Consultant, Policy Research Division, GTE Corporation, Stamford CT, 1985-1986

Teaching Experience

Current Teaching Appointments:

2011-present: Università degli Studi di Milano, Ph.D. Program in Economics: *Advanced Microeconomics*, *Energy Economics*

- 2015-present: Università degli Studi di Milano, Master Program in Environment and Food Economics: *Environmental and Natural Resource Economics, Economics of Growth and Sustainability*
- 2007-present: Università Carlo Cattaneo (LIUC) – Castellanza (Varese): *Quantitative Methods in Economics, Finance and Management*
- 2017-present: Università San Raffaele Vita e Salute, Corso di laurea in Filosofia – Milano: *Economia politica*

Previous Teaching Appointments:

- 2015-2018: Politecnico di Milano e Università degli studi di Milano, Master Ridef 2.0 – Reinventare l'energia: *Environmental Economics*
- 2011: SciencesPo, Paris School of International Affairs (PSIA), Master in International Energy – Paris: *Energy Economics*
- 2007-2008: Scuola Superiore dell'Economia e delle Finanze, Ministero dell'Economia e delle Finanze, Master in Economia dei Tributi, Rome: *Environmental and Energy Taxation*
- 2005-2016: CIDE Summer School in Econometrics, Palermo: *Applied Energy and Environmental Economics, Econometrics of Panel Data*
- 2003-2012 Università degli Studi di Bergamo, Doctoral Program in Technology Economics and Management: *Microeconomic Theory of Production*
- 2003-2011: School for the Doctorate in the Economics and Finance of Public Administration (DEFAP), Università Cattolica del Sacro Cuore di Milano: *Microeconomics, Readings in Environmental Economics*
- 2003-2005: Università L.Bocconi Milano, Master in Economics (MEc): *Microeconomics*
- 2002: Università degli Studi di Milano, Master in Gestione dell'ambiente e del paesaggio: *Microeconomics*
- 2001-2005: Università degli Studi di Milano, Master in Politica ed Economia dell'Ambiente: *Environmental Economics*
- 1995-1996: Università L.Bocconi Milano, Scuola di Direzione Aziendale, Master in International Economics and Management (MIEM): *Microeconomics*
- 1992-2012 Scuola Superiore Eni Enrico Mattei, Master in Energy and Environmental Economics (MEDEA): *Microeconomics, Energy Modelling, Microeconometrics, Environmental Economics and Policy*
- 1991-2002: Università L.Bocconi Milano: *The Italian Economy and Its International Setting*
- 1990-1999: Università degli Studi di Pavia, Doctoral Program in Economics, *Microeconomics*
- 1987-1990: Università L.Bocconi Milano, Scuola di Direzione Aziendale, Master in Business Administration (MBA): *Macroeconomics*
- 1985: Instructor, Fashion Institute of Technology, New York: *Macroeconomics*
- 1984: Instructor, School of Business and Public Administration, Long Island University, New York: *Quantitative Methods in Economics*

Conference Organization

- 2014: "IAERE Second Annual Conference", Università degli Studi di Milano, Milan 13-14 February
- 2011: "General Equilibrium Modelling of Climate and Energy Impacts and Policies: Recent Developments", IEFE-Bocconi University, Milan, 15 April 2011
- 2006: "Environmental Kuznets Curve: Advanced Empirical Approaches", Special Session of the Third World Congress of Environmental and Resource Economists, Kyoto, 3-7 July 3-7 2006

- 2001: "Workshop on Applied Economics – Firms' Dynamic Adjustment with Nonconvexities and Irreversibility", Dipartimento di Scienze Economiche dell'Università di Bergamo and Business Investment Research Center (BIRC) University of Maastricht, Bergamo, 9-10 November 2001
- 2000: "Giornata CIDE di Econometria dell'Ambiente", Centro Interdipartimentale di Econometria (CIDE) and Fondazione Eni Enrico Mattei (FEEM), Venice, 3 March 2000
- 1999: "Workshop on Applied Economics – Empirical Analysis of Firms' Decisions", Dipartimento di Scienze Economiche dell'Università di Bergamo and Institute for Fiscal Studies (IFS) London, Bergamo, 14-15 May 1999
- 1998: "Colloquia on Economic Research", Seventh Annual Meeting, Innocenzo Gasparini Institute for Economic Research (IGIER), Fondazione Eni Enrico Mattei (FEEM) and AIDEI, Milan, 18-19 June 1998
- 1997: "Colloquia on Economic Research", Sixth Annual Meeting, Innocenzo Gasparini Institute for Economic Research (IGIER), Fondazione Eni Enrico Mattei (FEEM) and AIDEI, Milano, 12-13 June 1997
- 1996: "First Bergamo Workshop on Applied Economics – Panel Data Applications and Methods", Dipartimento di Scienze Economiche dell'Università di Bergamo, Bergamo, 11-12 October 1996
- 1996: "Colloquia on Economic Research", Fifth Annual Meeting, Innocenzo Gasparini Institute for Economic Research (IGIER), Milano, 6-8 June 1996
- 1994: "International Perspectives on the Microeconomic and Macroeconomic Implications of Financing Constraints", Dipartimento di Scienze Economiche dell'Università di Bergamo and Centre for Economic Policy Research (CEPR), Bergamo, 6-8 October 1994

Research Project Coordination

- PRIN 2010-2011 – Climate Change in the Mediterranean Region: Evolutionary Scenarios, Economic Impacts, Mitigation policies and Technological Innovation, national coordinator, financed by Ministry of Education, University and Research, PRIN project 2010-2011
- "The Impact of Climate and Energy Policies on the Public Budget of EU Member States", DG TREN "Energy Policy" Think Tank ("THINK"), Grant Agreement between European Commission and European University Institute (EUI) Florence School of Regulation, 2010-2011
- "Climate and Sustainable Energy Action Plan for the City of Milan", financed by the Municipality of Milan, 2009
- KYOTO LOMBARDIA – Research Project on Climate Change and Greenhouse Gas Control in the Lombardy Region, financed by Fondazione Lombardia Ambiente, 2004-2005 and 2007
- STABILISATION GROUP - Economic and Technological Dimensions of Stabilising Atmospheric CO2 Concentrations: An International and Comparative Analysis, financed by Partners, 2004-2006
- TRANSUST - Modelling the Transition to Sustainable Economic Structures, financed by European Commission, DG Research, Environment and Sustainable Development Programme, 2003-2005
- NEMESIS-ETC - New Econometric Model for Environment and Strategies Implementation for Sustainable development / Endogenous Technical Change, financed by European Commission, DG Research, Environment and Sustainable Development Programme, 2000-2003
- CLIMNEG - Adopting and Distributing Climate Targets and Policies: An Integrated Assessment of European Interests and Strategies in the Climate Negotiation Process beyond Kyoto, financed by European Commission, FP4, Environment and Climate Programme, 1999-2001
- WISE - Weather Impacts on Natural Social and Economic Systems, financed by European Commission, FP4, Environment and Climate Programme, 1999-2000

Modelling Experience

- K-DSGE: A Dynamic Stochastic General Equilibrium Model for Saudi Arabia, KAPSARC 2017
- WITCH: Model for Climate Policy Analysis, Fondazione Eni Enrico Mattei 2006
- FEEM-RICE: Model for Climate Policy Analysis, Fondazione Eni Enrico Mattei 2000
- WARM: A European Model for Energy and Environmental Analysis, GRETA and Fondazione Eni Enrico Mattei 1994
- CER: Un modello econometrico per l'economia italiana, GRETA and Centro Europa Ricerche 1992

Refereeing Activity

Agricultural and Resource Economics Review, American Economic Review, American journal of Agricultural Economics, Annales d'Economie et de Statistique, Applied Economics, Canadian Journal of Economics, Climatic Change, Discrete Dynamics in Nature and Society, Ecological Economics, Economic Analysis and Policy, Economic Inquiry, Economic Journal, Economic Notes, Economica, Economics and Policy of Energy and Environment, Empirical Economics, Energy Economics, Energy Efficiency, Energy Journal, Energy Reports, Energy Strategy Reviews, Environment and Development Economics, Environment and Resource Economics, Environmental Challenges, Environmental Impact Assessment Review, Environmental Policy and Governance, Environmental Science and Policy, European Economic Review, Giornale degli Economisti, International Economic Review, International Economics, Italian Economic Journal, Journal of Applied Econometrics, Journal of Asian Economics, Journal of Cleaner Production, Journal of Economics (Zeitschrift fur Nationalokonomie), Journal of Economics & Management Strategy, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Money Credit and Banking, Journal of Natural Gas Science and Engineering, Journal of Policy analysis and Management, Journal of Productivity Analysis, Labour, Politica Economica, Oxford Bulletin of Economics and Statistics, Renewable & Sustainable Energy Reviews, Research in Transportation Economics, Resource and Energy Economics, Resources Conservation & Recycling, Review of Economics and Statistics, Review of Economic Studies, Review of International Economics, Ricerche Economiche, Rivista di Politica Economica, Rivista Internazionale di Scienze Economiche e Commerciali, Rivista Italiana degli Economisti, Scottish Journal of Political Economy, Singapore Economic Review, Spatial Economic Analysis, Spatial Statistics, Sustainability, Sustainable Cities and Society, Sustainable Production and Consumption, Technological Forecasting & Social Change, Utilities Policy

Publications of Marzio Galeotti

Professor Marzio Galeotti
Department of Environmental Science and Policy (DESP)
Università degli Studi di Milano
Via Celoria 2
I-20133 Milano (Italy)
voice: +39-02-5031470
fax: +39-02-5031486
Skype: marzio.galeotti
E-mail: marzio.galeotti@unimi.it

h-index (consulted 6 December 2020): 20 (Scopus); 30 (Google Scholar); 9 (Web of Science)

Publications in Refereed Journals

1. "Covid-19 e cambiamenti climatici: due problemi globali a confronto" (con Rolando Fuentes, Alessandro Lanza e Baltasar Manzano), *Rivista di Politica Economica* (2021) 1,17-40
2. "Saudi Arabia's Economic Policy Reforms: Insights from a DSGE Model" (with Jorge Blazquez, Baltasar Manzano, Axel Pierru, and Shreekar Pradhan), *Economic Modelling* 95 (2021) 145-169
3. "COVID-19 and Climate Change: A Tale of Two Global Problems" (with Rolando Fuentes, Alessandro Lanza, and Baltasar Manzano), *Sustainability* (2020) 12, 8560 <https://doi.org/10.3390/su12208560>
4. "Measuring Environmental Policy Stringency: Approaches, Validity, and Impact on Environmental Innovation and Energy Efficiency" (with Silvia Salini and Elena Verdolini), *Energy Policy* (2020) 136, 111052 <https://doi.org/10.1016/j.enpol.2019.111052>
5. "Climate Change and Migration: Is Agriculture the Main Channel?" (with Chiara Falco and Alessandro Olper), *Global Environmental Change* (2019) 59, 101995 <https://doi.org/10.1016/j.gloenvcha.2019.101995>
6. "Convergence of European natural gas prices" (with Andrea Bastianin and Michele Polo), *Energy Economics* (2019) 81, 793-811 <https://doi.org/10.1016/j.eneco.2019.05.017>
7. "Decoupling of CO2 Emissions and GDP: A Time-varying Cointegration Approach" (with Jeyhun Mikayilov and Fahkri Hasanov), *Ecological Indicators* (2018) 95, 615-628 <https://doi.org/10.1016/j.ecolind.2018.07.051>
8. "The Impact of Economic Growth on CO2 Emissions in Azerbaijan" (with Jeyhun Mikayilov and Fahkri Hasanov), *Journal of Cleaner Production* (2018) 197, 1558-1572 <https://doi.org/10.1016/j.jclepro.2018.06.269>
9. "Environmental Policy Performance and Its Determinants: Application of a Three-level Random Intercept Model" (with Yana Rubashkina, Silvia Salini, and Elena Verdolini), *Energy Policy* (2017) 114, 134-144 <https://doi.org/10.1016/j.enpol.2017.11.053>
10. "Economic development and energy consumption in the GCC: an international sectoral analysis" (with Kankana Dubey, Nicholas Howarth, and Alessandro Lanza), *Energy Transitions* (2017) 1, 1-6 <https://doi.org/10.1007/s41825-017-0006-3>
11. "Oil Supply Shocks and Economic Growth in the Mediterranean" (with Andrea Bastianin and Matteo Manera), *Energy Policy* (2017) 110, 167-175 <https://doi.org/10.1016/j.enpol.2017.08.004>

12. "Ethanol and Field Crops: Is There a Price Connection?" (with Andrea Bastianin and Matteo Manera), *Food Policy* (2016) 63, 53-61 <https://doi.org/10.1016/j.foodpol.2016.06.010>
13. "Environmental Regulation and Competitiveness: Empirical Evidence on the Porter Hypothesis from European Manufacturing Sectors" (with Yana Rubashkina, and Elena Verdolini), *Energy Policy* (2015) 83, 288-300 <https://doi.org/10.1016/j.enpol.2015.02.014>
14. "Forecasting the Oil-Gasoline Price Relationship: Do Asymmetries Help?" (with Andrea Bastianin and Matteo Manera), *Energy Economics* (2014) 46, S44-S56 <https://doi.org/10.1016/j.eneco.2014.08.006>
15. "Uncertainty in Climate Change Modelling: Can Global Sensitivity Analysis Be of Help?" (with Barry Anderson, Emanuele Borgonovo and Roberto Roson), *Risk Analysis* (2014) 34, 271-293 <https://doi.org/10.1111/risa.12117>
16. "Causality and Predictability in Distribution: The Ethanol-Food Price Relation Revisited" (with Andrea Bastianin and Matteo Manera), *Energy Economics* (2014) 42, 152-160 <https://doi.org/10.1016/j.eneco.2013.12.014>
17. "Economic Impacts of Climate Change in Italy and the Mediterranean: Updating the Evidence" (with Roberto Roson), *Journal of Sustainable Development* (2012) 5, 27-41 DOI:[10.5539/jsd.v5n5p27](https://doi.org/10.5539/jsd.v5n5p27)
18. "At Home and Abroad: An Empirical Analysis of Innovation and Diffusion in Energy Technologies" (with Elena Verdolini), *Journal of Environmental Economics and Management* (2011) 61, 119-134 <https://doi.org/10.1016/j.jeem.2010.08.004>
19. "On the Robustness of the Robustness of Checks on the Environmental Kuznets Curve" (with Matteo Manera and Alessandro Lanza), *Environmental and Resource Economics* 42 (2009) 551-574 <https://doi.org/10.1007/s10640-008-9224-x>
20. "Economic Growth and the Quality of the Environment: Taking Stock", *Environment, Development and Sustainability* 9 (2007) 427-454 <https://doi.org/10.1007/s10668-006-9030-y>
21. "How Consistent Are Alternative Short-term Climate Policies with Long-term Goals?" (with Valentina Bosetti and Alessandro Lanza), *Climate Policy* 6 (2006) 295-312 DOI: [10.1080/14693062.2006.9685603](https://doi.org/10.1080/14693062.2006.9685603)
22. "WITCH: A World Induced Technical Change Hybrid Model" (with Valentina Bosetti, Carlo Carraro, Emanuele Massetti and Massimo Tavoni), *The Energy Journal* 27 (2006) 13-37 <http://www.jstor.org/stable/23297044>
23. "The Dynamics of Carbon and of Energy Intensity in a Model of Endogenous Technical Change" (with Valentina Bosetti and Carlo Carraro), *The Energy Journal* 27 (2006) 191-205 <http://www.jstor.org/stable/23297063>
24. "Reassessing the Environmental Kuznets Curve for CO₂ Emissions: A Robustness Exercise" (with Alessandro Lanza and Francesco Pauli), *Ecological Economics* 57 (2006) 152-163 <https://doi.org/10.1016/j.ecolecon.2005.03.031>
25. "Productivity and Structural Reforms: Evidence on the Italian Economy" (with Lidia Bagnoli, Francesco Nucci, and Ottavio Ricchi), *Rivista Internazionale di Scienze Economiche e Commerciali* (2005) 367-393
26. "Learning by Doing vs. Learning by Researching in a Model for Climate Policy Analysis" (with Efrem Castelnuovo, Gretel Gambarelli, and Sergio Vergalli), *Ecological Economics* 54 (2005),261-276 <https://doi.org/10.1016/j.ecolecon.2004.12.036>

27. "Inventories, Employment, and Hours (with Louis J. Maccini and Fabio Schiantarelli), *Journal of Monetary Economics* (2005) 575-600 <https://doi.org/10.1016/j.jmoneco.2004.08.005>
28. "Trade Links with the SEEC's: Trade Specialization and Industrial Structure" (with Giuseppe De Arcangelis, Giovanni Ferri and Giorgia Giovannetti), *Journal of Southern Europe and the Balkans* 7 (2005) 75-96 <https://doi.org/10.1080/14613190500041958>
29. "Desperately Seeking Environmental Kuznets" (with Alessandro Lanza), *Environmental Modelling and Software* 20 (2005) 1379-1388 <https://doi.org/10.1016/j.envsoft.2004.09.018>
30. "Moving Skills from Hands to Heads: Import of Technology and Export Performance" (with Giorgio Barba Navaretti and Andrea Mattozzi), *Research Policy* 33 (2004) 879-895 <https://doi.org/10.1016/j.respol.2004.01.014>
31. "Climate Policy and Economic Growth in Developing Countries: The Impact of Kyoto" (with Barbara Buchner), *International Journal of Global Environmental Issues* 4 (2004) 109-138 <https://doi.org/10.1504/IJGENVI.2004.005287>
32. "Capital Heterogeneity: Does It Matter? Fundamental Q and investment on a Panel of Italian Firms" (with Elena Bontempi, Alessandra Del Boca, Alessandra Franzosi and Paola Rota), *Rand Journal of Economics* 35 (2004) 674-690 <http://doi.org/10.2307/1593767>
33. "Interactions between Climate and Trade Policies: A Survey" (with Claudia Kemfert), *Journal of World Trade* 38 (2004) 701-724
34. "Rockets and Feathers Revisited: An International Comparison on European Gasoline Markets" (with Alessandro Lanza and Matteo Manera), *Energy Economics* 25 (2003) 175-190 [https://doi.org/10.1016/S0140-9883\(02\)00102-0](https://doi.org/10.1016/S0140-9883(02)00102-0)
35. "Endogenous Induced Technical Change and the Costs of Kyoto" (with Paolo Buonanno and Carlo Carraro), *Resource and Energy Economics* 25 (2003) 11-34 [https://doi.org/10.1016/S0928-7655\(02\)00015-5](https://doi.org/10.1016/S0928-7655(02)00015-5)
36. "Emission Trading Restrictions with Endogenous Technological Change" (with Paolo Buonanno, Carlo Carraro and Efrem Castelnuovo), *International Environmental Agreements. Law Politics Economics* 1 (2001) 379-395 <https://doi.org/10.1023/A:1011594622427>
37. "The Double Dividend Issue: Modeling Strategies and Empirical Findings" (with Francesco Bosello and Carlo Carraro), *Environment and Development Economics* 6 (2000) 9-45 <https://doi.org/10.1017/S1355770X0100002X>
38. "Richer and Cleaner? A Study on Carbon Dioxide Emissions by Developing Countries" (with Alessandro Lanza), *Energy Policy* 27 (1999) 565-573 [https://doi.org/10.1016/S0301-4215\(99\)00047-6](https://doi.org/10.1016/S0301-4215(99)00047-6)
39. "Importing Jobs or Exporting Firms? A Close Look at the Labour Market Implications of Italy's Trade and Foreign Direct Investment Flows" (with Riccardo Faini, Anna Falzoni, Rodolfo Helg, and Alessandro Turrini), *Giornale degli Economisti e Annali di Economia* 57 (1999) 95-135 <http://www.jstor.org/stable/23248310>
40. "The Cyclicity of Markups in a Model with Adjustment Costs: Econometric Evidence on Level and Derivative Effects for U.S. Industry" (with Fabio Schiantarelli), *Oxford Bulletin of Economics and Statistics* 60 (1998) 121-142 <https://doi.org/10.1111/1468-0084.00091>
41. "Economic Growth, International Competitiveness and Environmental Protection - R&D and Innovation Strategies with the WARM Model" (with Carlo Carraro), *Energy Economics* 19 (1997) 2-

- 28 (reprinted in W.B.Gray (ed.), *Economic Costs and Consequences of Environmental Regulation*, Aldershot: Ashgate Pub.). [https://doi.org/10.1016/S0140-9883\(96\)01005-5](https://doi.org/10.1016/S0140-9883(96)01005-5)
42. "The Benefits of Environmental Fiscal Reforms in an Integrated Europe" (with Carlo Carraro), *Review of International Economics, Special Supplement* (1997) 111-133 <https://doi.org/10.1111/1467-9396.5.4s.7>
43. "WARM: A European Model for Energy and Environmental Analysis" (with Carlo Carraro), *Environmental Modeling and Assessment* 1 (1996) 171-189 <https://doi.org/10.1007/BF01874904>
44. "The Intertemporal Dimension of Neoclassical Production Theory", *Journal of Economic Surveys* 10 (1996) 421-460 <https://doi.org/10.1111/j.1467-6419.1996.tb00019.x>
45. "Environmental Taxation and Unemployment: Some Evidence on the Double Dividend Hypothesis in Europe" (with Carlo Carraro and Massimo Gallo), *Journal of Public Economics* 62 (1996) 141-181 [https://doi.org/10.1016/0047-2727\(96\)01577-0](https://doi.org/10.1016/0047-2727(96)01577-0)
46. "Stock Market Volatility and Investment: Do Only Fundamentals Matter?", (with Fabio Schiantarelli), *Economica* 61 (1994) 147-165 <https://doi.org/10.2307/255495>
47. "Investment Decisions and the Role of Debt, Liquid Assets and Cash Flow: Empirical Evidence from a Panel of Italian Firms" (with Fidel Jaramillo and Fabio Schiantarelli), *Applied Financial Economics* 4 (1994) 121-132 <https://doi.org/10.1080/758523956>
48. "The Relationship between Employment and Investment Activity: Theoretical Aspects and Empirical Evidence for Italy" (with Daniele Checchi), *Applied Economics* 25 (1993) 13-24 <https://doi.org/10.1080/00036849300000107>
49. "Testing for Flexibility of Labor under Noncompetitive Behavior in Italian and French Manufacturing" (with Angelo M. Cardani), *Empirical Economics* 17 (1992) 347-361 <https://doi.org/10.1007/BF01206298>
50. "Generalized Q Models of Investment" (with Fabio Schiantarelli), *The Review of Economics and Statistics* LXXIII (1991) 383-392 <https://doi.org/10.2307/2109562>
51. "La Misurazione dell'Efficienza Economica: Una Applicazione al Settore Bancario Italiano" (with Angelo M. Cardani and Matteo Castagna), *Ricerche Economiche* XLV (1991) 57-77
52. "Specification of the Technology for Neoclassical Investment Theory: Testing the Cost of Adjustment Approach", *The Review of Economics and Statistics* LXXII (1990) 471-480 Available at SSRN: <https://ssrn.com/abstract=633971>
53. "A Cointegration Analysis of the Relationship between Bank Reserves, Deposits and Loans: The Case of Italy, 1965-1987" (with Valentina Corradi and Riccardo Rovelli), *Journal of Banking and Finance* 14 (1990) 199-214 [https://doi.org/10.1016/0378-4266\(90\)90044-3](https://doi.org/10.1016/0378-4266(90)90044-3)
54. "La dimensione incide poco sull'efficienza delle aziende bancarie" (with Angelo M. Cardani and Matteo Castagna), *Bancaria* 46 (1990) 3-8
55. "Tobin's Marginal Q and Tests of the Firm's Dynamic Equilibrium", *Journal of Applied Econometrics* 3 (1988) 267-278 <http://www.jstor.org/stable/2096643>
56. "On the Dual Relationship between Flexible Accelerator and Q Theories of Investment: A Note", *Rivista Internazionale di Scienze Economiche e Commerciali* XXXIV (1987) 771-776
57. "Recent Developments in Investment Theory", *Giornale degli Economisti e Annali di Economia* 6 (1984) 393-415 <http://www.jstor.org/stable/23246079>
58. "On the Micro-foundations of the Lucas Supply Function", *Economic Notes* 3 (1984) 115-127

59. "La Struttura dei Movimenti Internazionali di Capitali dell'Italia e la Nuova Realtà dei Crediti Commerciali negli Anni Settanta", *Economia Banca e Congiuntura IV* (1982) 175-202
-

Books and Book Chapters

1. "The Economic Impacts of Climate Change in the Mediterranean", in IEMed Mediterranean Yearbook, Barcelona: IEMed (2020)
2. "A Greener Italy after COVID-19? (with Alessandro Lanza), in Giorgio Belletini and Andrea Goldstein (eds.), *The Italian Economy after Covid*, Bologna: Bononia University Press (2020)
3. "Economia sostenibile e sviluppo umano", in Fondazione Lombardia per l'Ambiente (ed.), *Sviluppo umano e ambiente*, Milan (2019), 53-82
4. "Il cambiamento climatico", in Andrea Goldstein (ed.), *Agenda Italia 2023*, Bologna: Il Mulino (2018)
5. "In controtendenza: Ambiente", in Alessandro Colombo e Paolo Magri (eds.), Le nuove crepe della governance mondiale – Rapporto ISPI 2016 (2016), Edizioni Epoké – ISPI, 123-127
6. "USA: la svolta nella politica ambientale ed energetica" (2016), *Commentary ISPI* 13 gennaio 2016
7. "Tassare la CO₂" (with Alessandro Lanza) (2015), *QualEnergia*, anno XIII n.4, 58-65
8. "Obiettivi ambientali post-Kyoto e sviluppo della "Green Economy" (with Antonio Villafranca), in La sfida della sicurezza energetica (2012), ISPI-Farefuturo
9. "The Impact of Climate and Energy Policies on the Public Budget of EU Member States" (with Luis Olmos, Sophia Ruester, Martina Sartori, Maria Grazia Pazienza, Pippo Ranci, and Jean-Michel Glachant), *Florence School of Regulation Policy Brief n. 2011/05*
10. "Impatto ambientale" (with Antonio Ballarin Denti, Maria Chiesa, Claudio Casale, Ettore Lembo and Daniele Felletti), in Silvana Stefani (ed.), Le energie da fonti rinnovabili: lo stato dell'arte, Milano: Gieedizioni (2011)
11. "L'economia dei cambiamenti climatici", in Atlante Geopolitico Treccani, Istituto dell'enciclopedia italiana (2011), 99-100
12. "Technical Progress in TranSust Models" (with Valentina Bosetti), in Valentina Bosetti, Reyer Gerlagh and Stefan P.Schleicher (eds.), Modelling Sustainable Development, Cheltenham: Edward Elgar (2009), 83-103
13. "La nuova politica europea integrata dell'energia e del clima", in L'Italia nell'economia internazionale, Rapporto ICE 2007-2008, Rome (2008), 128-139
14. "Le conseguenze economiche dei cambiamenti climatici", in Alessandro Colombo e Natalino Ronzitti (eds.), L'Italia e la politica internazionale – Edizione 2008, Istituto Affari Internazionali – Istituto per gli Studi di Politica Internazionale, Bologna: il Mulino (2008), 187-203
15. "The Cost of Climate Change: Sharing the Burden", in Restoring Responsibility: The Accountable Corporation, *Notizie di Politeia* n.89 (2008), 399-418
16. "Qualità dell'ambiente e commercio estero", in L'Italia nell'economia internazionale, Rapporto ICE 2006-2007, Rome (2007), 165-172
17. "1986-2006: Vent'anni di prezzi del petrolio", in L'Italia nell'economia internazionale, Rapporto ICE 2005-2006, Rome (2006), 69-84

18. Microeconometria – Metodi e Applicazioni (with Matteo Manera), Roma: Carocci (2005)
19. “Inside the ‘Magic Box’: Internet and the Growth of Small and Medium-Sized Enterprises: Some Evidence from Italy” (with Giovanni Ferri and Ottavio Ricchi), in Luigi Paganetto (ed.), The New Economy and Growth, London: Ashgate (2005), 163-178
20. “Dinamiche di mercato ed effetti macroeconomici dei prezzi delle materie prime: il caso del petrolio”, in L’Italia nell’economia internazionale, Rapporto ICE 2004-2005, Rome (2005), 50-60
21. “Prezzi relativi, intensità di capitale e sostituibilità dei fattori”, in Claudio Lucifera (ed.), Mercato, occupazione e salari: la ricerca sul lavoro in Italia (vol.1), Milano: Mondatori Università (2003), 149-164
22. “Traditional Environmental Instruments, Kyoto Mechanisms and the Role of Technical Change” (with Carlo Carraro), in Carlo Carraro and Christian Hegenhofer (eds.), Firms, Governments and Climate Policy – Incentive-based Policies for Long-term Climate Change, Cheltenham: Edward Elgar (2002), 222-266
23. “The Future Evolution of the Kyoto Protocol: Costs, Benefits, Incentives to Ratification and New International Regimes” (with Carlo Carraro), in Carlo Carraro and Christian Hegenhofer (eds.), Firms, Governments and Climate Policy – Incentive-based Policies for Long-term Climate Change, Cheltenham: Edward Elgar (2002), 267-316
24. “Quote di mercato e competitività delle imprese italiane nel bacino del Mediterraneo e nei Balcani” (with Giuseppe De Arcangelis, Giovanni Ferri and Giorgia Giovannetti), in Gian Paolo Galli and Luigi Paganetto (eds.), La competitività dell’Italia – Le imprese (vol.II), Milano: Il Sole 24 Ore (2002).
25. “Prospettive del commercio estero dell’Italia: verso i Balcani o verso il Mediterraneo?” (with Giuseppe De Arcangelis, Giovanni Ferri, and Giorgia Giovannetti), Rapporto ICE (2000-2001).
26. “La domanda di Lavoro”, in Brucchi Luchino (ed.), Manuale di Economia del Lavoro, Bologna: Il Mulino (2001), 77-102.
27. “Efficiency and Equity of Emission Trading with Endogenous Environmental Technical Change” (with Paolo Buonanno, Carlo Carraro and Efrem Castelnuovo), in C.Carraro (ed.), Efficiency and Equity of Climate Change Policy, Dordrecht: Kluwer Academic Publishers, 2000, 121-162.
28. “Financing Constraints on Markups: Further Evidence from Italian Firm Level Data” (with Anna Bottasso and Alessandro Sembenelli), in S.Biffignandi (ed.), Micro- and Macrodata of Firms, Berlino: Springer-Verlag (1998) 645-660
29. “Environmental Fiscal Reforms in a Federal Europe” (with Carlo Carraro), in J.Braden and S.Proost (eds.), Climate Change, Transport and Environmental Policy: Empirical Applications in a Federal System, Cheltenham: Edward Elgar (1997), 78-104.
30. Ambiente, Occupazione e Progresso Tecnico: un Modello per l’Europa (with C. Carraro), Bologna: Il Mulino (1995)
31. “Market Power and Productivity: The Impact of Protection on Textile and Clothing Sectors of Italy and Germany” (with Angelo M. Cardani), in R.Faini, G.Barba Navaretti, and A.Silberston (a cura di), Beyond the Multi-Fiber Agreement: Third World Competition and the Restructuring in the European Textile Industry, Parigi: OECD (1995) 79-88
32. “Modelli econometrici per l’analisi dei problemi ambientali” (with Michele Botteon, Carlo Carraro and Massimo Gallo), in Ricerche Quantitative per la Politica Economica 1993, Roma: Banca d’Italia (1994) 419-466

33. “Il sistema bancario e il meccanismo di trasmissione” (with Valentina Corradi and Riccardo Rovelli), in F. Cesarini, M. Grillo, M. Monti and M. Onado (a cura di), Banca e Mercato, Bologna: Il Mulino (1988) 125-184
34. “Un'Analisi Empirica del Commercio Estero Italiano Secondo la Teoria del Duale” (with Angelo M. Cardani), in Ricerche Quantitative e Basi Statistiche per la Politica Economica, Roma: Banca d'Italia (1987) 299-323

Working Papers and Work in Progress

- “On the water-energy-food nexus: Is there multivariate convergence?” (with Carlo Andrea Bollino and Axel Pierru), KAPSARC Discussion Paper, October 2020
- “Coastal Challenges: Mainstreaming Climate Action In The G20 Development Agenda” (with Prasoon Singh, M. Tabitha Benney, Wilfred Lunga, Christian Otto, Radia Sedaoui and Markus Zimmer), T20 Saudi Arabia, Task Force 2 Climate Change and Environment, October 2020
- “Integrated Policies To Improve The Energy–Water–Food System Nexus To Achieve The SDGs” (with Carlo Andrea Bollino, Venkatachalam Anbumozhi, Suresh Babu and Yamaji Eiji), T20 Saudi Arabia, Task Force 10 Sustainable Energy, Water, And Food Systems, October 2020
- “On the Drivers of Financial Leverage for Renewable Energy Projects: An Empirical Study on Spanish Wind Farms” (with Jorge Blazquez and Jose Maria Martin-Moreno), Oxford Institute for Energy Studies OIES Paper N.EL 40, May 2020
- “K-DSGE: A Dynamic Stochastic General Equilibrium Model for Saudi Arabia” (with Jorge Blazquez, Baltasar Manzano, Axel Pierru, and Shreekar Pradhan), KAPSARC Discussion Paper N. KS-2019-MP06, June 2019
- “Fertility and Climate Change” (with Reyer Gerlagh and Veronica Lupi), Cesifo Working Paper N. 7421, December 2018
- “Energy Productivity as a New Growth Model for the GCC: Evidence from an International Kuznets Curve Analysis” (with Nicholas Howarth and Alessandro Lanza), KAPSARC Discussion Paper n. KS-1648-MP043A, October 2016
- “Energy Productivity as a New Growth Model for GCC Countries” (with Kankana Dubey, Nicholas Howarth and Alessandro Lanza), KAPSARC Discussion Paper n. KS-1645-DP039A, October 2016
- “The Sustainable Management of Energy and Natural Resources and the Geography of Economic Activities and of Population Movements: An Overview” (with Francesco Vona), June 2014
- “The Demographic Transition and the Ecological Transition: Enriching the Environmental Kuznets Curve Hypothesis” (with Alessandro Lanza and Maria Carla Ludovica Piccoli), IEFE Bocconi Working Paper N. 44, July 2011
- “Does Endogenous Technical Change Make a Difference in Climate Change Policy Analysis? A Robustness Exercise with the FEEM-RICE Model” (with Carlo Carraro), Fondazione Eni Enrico Mattei, Working Paper N. 152.2004
- “Weather Impacts on Natural, Social and Economic System (WISE) – Part II: Individual Perception of Climate Extremes in Italy” (with Alessandra Gorla, Paolo Mombrini and Evi Spantidaki), Fondazione Eni Enrico Mattei, Working Paper N. 32.2004

- “Weather Impacts on Natural, Social and Economic System (WISE) – Part I: Sectoral Analysis of Climate Impacts in Italy” (with Alessandra Goria, Paolo Mombrini and Evi Spantidaki), Fondazione Eni Enrico Mattei, Working Paper N. 31.2004
- “Environment and Economic Growth: Is Technical Change the Key to Decoupling?”, Fondazione Eni Enrico Mattei Working Paper N.90.2003
- “Do Not Get Trapped in Crossing: Indian Firms and Foreign Markets” (with Giorgio Barba Navaretti and Alessandra Tucci), Centro Studi Luca D’Agliano Development Studies Working Paper N. 170, January 2003
- “Inventories, Production Smoothing and the Shape of the Cost Function” (with Luigi Guiso, Brian Sack and Fabio Schiantarelli), CEPR Discussion Paper N.1647, August 1997
- “The Impact of Financing Constraints on Markups: Theory and Evidence from Italian Firm Level Data” (with Anna Bottasso and Alessandro Sembenelli), Fondazione Eni Enrico Mattei Nota di lavoro N.73.97, 1997