

Curriculum Vitae

ROBERTO ZOBOLI

Born May 6, 1956
Luzzara (RE), Italy

DISEIS
Catholic University
Via Necchi 5, I-20123 Milan, Italy
Phone +39-02-72342592
Fax +39-02-72342475
E-mail: roberto.zoboli@unicatt.it

PRESENT POSITIONS

- 2007-...: Full Professor of Economic Policy, Faculty of Political and Social Sciences, Catholic University, Milan
- 2015-...: Rector's Delegate for Scientific Research and Sustainability, Catholic University, Milan
- 2013-...: Member, Managing Committee of the Inter-university research centre SEEDS - Sustainability, Environmental Economics and Dynamic Studies
- 2020-...: Research Associate FEEM – Fondazione ENI Enrico Mattei, Milano
- 2007-...: Research Associate IRCrES-CNR, Institute of Research on Sustainable Economic Growth, National Research Council of Italy, Milano

EDUCATION

1982: *Laurea* Degree in Economics (110/110), Faculty of Political Science, University of Bologna

TEACHING

Since 2014/2015: Economic Policy

Since 2004/2005: Economic policies for resources and the environment

2013/2014 – 2016/2017: Cost-benefit analysis and Multi-criteria analysis

2007/2008 – 2013/2014: Economics of knowledge

2003/2004: Adjunct Professor of Environmental policies

2002/2003 - 2003/2004: Adjunct Professor of Geo-economics

1993/1994 – 2001/2002: Adjunct Professor of Economics and policy of the international environment, course of International economic organisation

1991/1992 – 1992/1993: Adjunct Professor of International economic organisation

Postgraduate

2008/2009 to present: ASA, Postgraduate School on the Environment

2006/2007 – 2017/2018: MIR – Master in International Relations, ASERI - Postgraduate School of Economics and International Relations (Director from 2008 to 2018)

2011/2012 – 2017-2018: MIC&D - Master in International Cooperation and Development, ASERI

2012: MBA Global Business and Sustainability, ALTIS, Postgraduate School Business and Society

2006/2007-2009/2010: MACIS - Master in International cooperation for development, ASERI

1995/1996 – 2005/2006: Lecturer, various master courses, ASERI

Others:

2019: Winter School ‘Circular Economy – Policies for greener Industries’, UNIDO, SEEDS, CERCIS, 9 – 13 December 2019, Ferrara, Italy.

2016: KID Summer School ‘Knowledge Dynamics, Industry Evolution, Economic Development’, 10-16th July 2016, Nice, France

2011: Master Degree in Environmental Assessment and Integrated Management in Urban Areas, IUSS and Tongji University, Shanghai

2004/2005: Master in Competitiveness of the Alpine Regions, Catholic University, in cooperation with Polytechnic of Turin, University of Pavia, and IREALP, Italy

2003-2004: MiDIC – Master in Development, Innovation and Change, University of Bologna, Italy

1998 and 1999: Summer School of Environmental Economics, Harvard Institute for International Development, Technical University of Wien, and Academia Istropolitana Nova, Bratislava, Slovakia

1988/1999-1999/1990: Adjunct Professor of ‘Economics of forestry and mountain areas’, University of Trento

RESEARCH PROJECTS

Catholic University (UCSC)

- 2020: Contributor, project ‘Circular economy, bioeconomy, and decarbonisation: Sustainable evolution of business models’, in cooperation between SEEDS and FEEM
- 2018-2019: Scientific Coordinator, project ‘Circular economy and sustainable development’, in cooperation between Catholic University and FEEM
- Since 2014: Principal UCSC researcher, international consortium ETC/WMGE (European Topic Centre on Waste and Materials in the Green Economy), EEA (European Environment Agency), Copenhagen (2014-2018, confirmed 2019-2021); leader of the ETC work package ‘Sectoral integration and the green economy’
- 2015-2019: Principal UCSC researcher, Horizon 2020 project ‘green.eu - European Global Transition Network on Eco-Innovation, Green Economy and Sustainable Development’
- 2015-2016: Scientific Coordinator, project ‘Food waste prevention networks’, FLA - *Fondazione Lombardia per l’Ambiente*, for the Lombardy Region government
- 2013-2015: Scientific Coordinator, project ‘The economic evaluation of natural disasters in Italy’, in partnership between IRCrES-CNR, IRPI-CNR, IDPA-CNR, INGV, SEEDS, sponsored by *Fondazione Generali*

- 2012-2015: PRIN - Research Projects of National Interest, Italian Ministry of University and Research (edition 2010-2011), project 'Climate change in the Mediterranean area: scenarios, economic impacts, mitigation policies and technological innovation' (2010S2LHSE); Main UC researcher of the joint Research Unit UC-UNIBO (Unit's topic: 'Embodied pollution and technology transfer for climate change in Italian international trade')
- 2012-2014: Principal UCSC researcher, international consortium ETC/SCP (European Topic Center on Sustainable Consumption and Production), EEA (European Environment Agency), Copenhagen; leader of the ETC/SCP task 'Green Economy'
- 2012: Principal UCSC researcher (with P. Malavasi), project 'Brescia in Europe: Air quality and district heating', ASA - Postgraduate School on the Environment for ASM Foundation, Municipality of Brescia, A2A
- 2010-2013: Principal UCSC researcher, project 'Sustainability of the Urban Environment', program 'Research Grants' of Lombardy Region
- 2010-2015: Scientific Coordinator (with F. Botturi), project 'Needs, people, and environments', UC ExpoLAB, Milan
- 2008-2010: Scientific Coordinator of the post-graduate scholarship programme 'Glocal Environmental Governance' for education on environmental governance, UC with the financial support of Cariplo Foundation, Milan
- 2008-2009: Scientific Coordinator (with S. Beretta), project 'Global Governance in a Plural World', ASERI for the regional programme on 'Centres of Excellence of the Lombard University System'
- 2008: Contributor (with S. Pontoglio), research report on 'Education, Research, and Innovation' for the project 'Sustainable Milan', *Fondazione Lombardia per l'Ambiente*, Cariplo Foundation, Assolombarda
- 2008: Contributor, project 'Competencies of Milan universities on energy and the environment', EnergyLab Foundation, Milan
- 2006: Research cooperation with Transcrime, Catholic University, Milan
- 2005-2007: Scientific Coordinator, project 'Opportunities for university-level environmental education in Lombardy', *Fondazione Lombardia per l'Ambiente*, Milan
- 2005-2006: Member of the research team, project 'Milano globale 2005', Milan Chamber of Commerce
- 2004: Scientific Coordinator (with others), project 'The internationalisation of Lombardy and Milan towards the Mediterranean: present situation and strategic guidelines', ASERI for the Milan Chamber of Commerce
- 2003: Scientific Coordinator (with others), project 'The Mediterranean and Europe. Political and institutional relationships, networks of firms, and technology transfer' ASERI for the Milan Chamber of Commerce
- 2003-2004: Member of the research team, project 'Structural dynamics: firms, networks, and institutions', PRIN 2003-2004, UC, Milan

CNR - National Research Council of Italy

- *Since 2014: Associate Researcher, Milan Unit of IRCrES-CNR, Institute of Research on Sustainable Economic Growth, Turin*
- *2007-2014: Associate Researcher, Milan Unit of CERIS-CNR, Institute of Research on Firms and Growth, Turin*
- *2003-2007: Research Director, Head of the Milan Unit, CERIS-CNR*
- *2001-2002: Research Director, Head of the Milan Unit, ISPRI-CNR, Institute on Innovation and Research Policies, Rome*
- *1995-2001: Research Director, IDSE-CNR, Institute of Research on the Dynamics of Economic Systems, Milan (Institute director August 2000 - November 2001)*

Contribution to CNR research projects

- *Since 2014: IRCrES partnership in the international consortium ETC/WMGE (European Topic Centre on Waste and Materials in the Green Economy), EEA (European Environment Agency), Copenhagen (2014-2018, confirmed 2019-2021)*
- *2016-2018: IRCrES unit in the project ISAAC - Increasing Social Awareness and ACceptance of biogas and biomethane, Horizon 2020, GA 691875, European Commission (2016-2018)*
- *2012-2015: IRCrES unit in the project INTEGRATE - Technological innovations for the management of built areas, leader ICT-CNR, Framework Agreement between CNR and Lombardy Region*
- *2012-2015: IRCrES unit in the FP7 project 'BENTHIS' - Benthic Ecosystem Fisheries Impact Study (leader Wageningen UR)*
- *2011-2015: Contribution of IRCrES, Milan Unit, to the CNR project RITMARE (Italian research for the marine environments), Workpackage SP3_WP5_AZ2_UO03: 'The economy of coastal areas'*
- *2011-2015: IRCrES unit in the project 'EMInn: Environmental Macro Indicators of Innovation', FP7, ENV.2011.3.1.9-3 - Macro-level Indicators to monitor the environmental impact of innovation, European Commission*
- *2009-2014: CERIS participation to the international consortium ETC/SCP, European Topic Centre on Sustainable Consumption and Production, EEA - European Environment Agency, Copenhagen*
- *2006-2012: Research module 'Economic Models for Environmental Sustainability', IMAA-CNR research programme on 'Models of Sustainability'*
- *2009: CERIS contribution to the project PIROGA, research leader IRSA-CNR, Parco Valle del Lambro (Lombardy)*
- *2008: 'Evaluation of economic costs of 'minimum vital flow' on the Serio River (Lombardy)', IReR and Lombardy Region*
- *2007-2008: 'Environmental and economic impacts of paper saving through innovations in digital documentation', for Infocamere and Wave Group*
- *2006-2007: 'Economic benefits of 10.000 hectares of new vegetation systems in Lombardy', IReR and Lombardy Region*

- 2005-2006: 'Renewable energy policies and industrial markets for wood in Italy', Federlegno-Arredo, Milan
- 2004-2008: Projects: 'Evaluation of shift in waste management form landfill to recovery/recycling/prevention', 'Use of economic instruments in policies addressing resources and waste', 'Sustainable production and consumption', in cooperation with APAT (Italian Environmental Agency) within the consortium ETC/RWM (European Topic Centre on Resource and Waste Management), EEA (European Environment Agency), Copenhagen
- 2004-2007: 'Environmental policies in the Italian cities', Research programme 'Environmental quality in Italian urban areas', APAT (Italian Environmental Agency), Rome
- 2005: 'Energy indicators and guidelines for the programmes of energy efficiency in Milan', AMMA-Milanese Agency for Mobility and the Environment, Milan
- 2005: 'Socio-economic analysis of the landfill of Cerro Maggiore – Rescaldina', in cooperation with IRSA-CNR, Lombardy Region
- 2004-2005: 'Methodologies for indicators of policy efficiency and response' in cooperation with APAT (Italian Environmental Agency) within the consortium ETC/WMF (European Topic Center on Waste and Material Flows), EEA (European Environment Agency), Copenhagen
- 2004-2005: 'Socio-economic determinants of water demand in Italy' (2nd phase), within the CNR's project 'Integrated management of water resources in different geographical areas', in cooperation with IRSA-CNR, MIUR – Italian Ministry of University and Research
- 2004: 'Rational production and use of energy', Part I: 'Energy efficiency in Lombardy: scenarios and policies', and Part II: 'Emission trading in Lombardy: perspectives and proposals for a region-level scheme', IReR and Lombardy Region
- 2002-2003: 'ERIA: Environmental regulation impact analysis', IPA – Institute for the Environment, Milan
- 2002-2003: 'International comparison of innovation systems in parts development and parts reuse in the automobile industry', in cooperation with RWE System Consulting, Mainz, Programme "Research Initiative on sustainability and innovation", German Federal Ministry on Education and Research, Germany
- 2003: 'Scenarios of socio-economic development in the areas of Stelvio National Park', IREALP (Institute of Research on the Ecology and the Economy of Alpine Areas), Sondrio and Milan
- 2001-2003: 'Socio-economic determinants of water demand in Italy' (1st phase), within the CNR project 'Integrated management of water resources in different geographical areas', in cooperation with IRSA-CNR, MIUR – Italian Ministry of University and Research
- 2001-2003: 'Development of an indicator framework on waste and material flows', in cooperation with APAT (Italian Environmental Agency) within the consortium ETC/WMF (European Topic Center on Waste and Material Flows), EEA (European Environment Agency), Copenhagen
- 1998-2000: 'Regulation and Innovation in the Area of End-of-life Vehicles', IPTS-JRC, Research Programme 'The Impact of EU Regulation of Innovation of European Industry', DG Enterprise - European Commission (participant to the research team of IPTS-JRC project on 'Regulation and Innovation', Seville, 1998)
- 1998-1999: 'Structural transformation and competitiveness of local systems of production in Italy', Research programme of IDSE-CNR, Milan

- 1998-2000: Coordinator of the Research Unit on 'Effectiveness indicators of environmental policies, Sub-project 'Efficiency indicators for public administrations', Project CNR-ISTAT on 'Measures and parameters for economic and social policy'
- 1999-2000: 'The environmental impacts of Balkan crisis', CNR Strategic Project 'The impacts of Balkan crisis', in cooperation with IRP-CNR
- 1998-1999: 'Socio-economic vulnerability to seismic risk', IRRS-CNR project 'Techniques of artificial intelligence for the evaluation of seismic risk'

Other projects

- 1999-2000: 'Analysis of CIS Data on Innovation in the Service Sector', in cooperation with CRIC, Manchester, and ISI-Fraunhofer, Karlsruhe, for DGXIII - European Commission
- 1998-1999: Special Project CNR 'Innovation systems, technology support systems, and R&D evaluation'
- 1998-1999: Strategic Project CNR 'Unemployment and low activity level in Italy'

Cariplio Foundation for Scientific Research, Milan (1994)

Responsible of research activities on the environment and technological innovation. Main projects:

- 'Science, Economics and Technology for the Environment', in cooperation with *Accademia Nazionale dei Lincei* and *Istituto Lombardo Accademia di Scienze e Lettere*
- Follow-up and proceedings of the international conference 'Municipal Solid Waste in Europe: Economic, Technological and Environmental Perspectives'

Montedison S.p.A., Economic Studies Department, Milan (1991-1993)

Director of the quarterly report *Innovazione e Materie Prime* (Innovation and Primary Commodities)

Cooperation with the Economic Study Department for studies on innovation, natural resources, and the international economy

Nomisma S.p.A., Economic Research, Bologna (1983-1990)

Researcher, Unit on 'Primary Commodities'; 1986-1990: Editor of the report 'Primary Commodities' and Responsible of research on natural resources and the environment. Main projects:

- 'Policies for Italian mountain areas' (1990), for the Ministry of Agriculture and Forestry
- 'Economic and ecological studies for a monitoring system of Italian forests' (1988-1990), for the Ministry of Agriculture and Forestry
- 'Instruments for planning the Italian forestry system', background study of the 1st Italian Forestry Plan (1986-87), for the Ministry of Agriculture and Forestry

PHD STUDENTS

Member of the Doctoral School in 'Institutions and Policies', Faculty of Political and Social Sciences, Catholic University, Milan. Supervisor of the PhD students:

- Giacomo Falchetta, 34th cycle, 'Energy access in Africa'
- Anita Porta, 34th cycle, 'Energy security and the decarbonisation transition'
- Filippo Fraschini, 32nd cycle, 'Portfolio analysis of climate change adaptation measures'
- Simone Tagliapietra, 27th cycle, 'The Euro-Mediterranean Energy relations'
- Lucia Dal Negro, 25th cycle, 'Applied Sustainability: exploring the limits of Inclusive Business strategies along spatial and institutional dimensions'
- Michele Gaietta, 23rd cycle, 'Geopolitics of the Iranian nuclear programme'
- Denise Di Dio, 22nd cycle, 'Environmental policy credibility and eco-innovation'
- Livio Mallia, 21th cycle, 'Free-trade areas and the Mediterranean integration'
- Ignacio Lara, 20th cycle, 'MERCOSUR and energy FDI in Latin America' (co-supervisor with S. Beretta)
- Misa Labarile., 20th cycle, 'Education systems and economic development'
- Serena Pontoglio, 20th cycle, 'International climate policies and technological innovation'
- Valeria Miceli., 19th cycle, 'High-tech district and the development of Italian industrial system'
- Giuseppe Gabusi, 18th cycle, 'The integration of China in the international economic system' (co-supervisor with S. Beretta)
- Susanna Paleari, 17th cycle, 'Institutional dynamics of transboundary resources and EU enlargement' (co-supervisor with S. Beretta)

OTHER ACTIVITIES (2000-2019)

- Reviewer for: Journal of Evolutionary Economics; Environmental and Resource Economics; Ecological Economics; Journal of Automotive Technology and Management; Journal of Environmental Policy and Planning; Journal of Environmental Management; Resources, Conservation and Recycling, Journal of Evolutionary Economics; Journal of Rural Studies; *Economia delle Fonti di Energia e dell'Ambiente*; *Economia Politica*; *Rivista Internazionale di Scienze Sociali*; *Istituzioni e Sviluppo Economico*; *L'Industria*; *Economia dei Servizi*
- UnLiON Annual Thematic Event 2019, 'Sustainable Development Goals (SDG) and Universities: Quo vadis?', participant to the panel 'How should EU policies evolve to integrate universities as an actor for the SDG-related activities?', Brussels, October 15, 2019.
- Since 2019: Rector's Delegate for the 'Observatory on Circular Economy and Energy Transition', Lombardy Region; member of the Technical panel on 'Food waste'
- Since 2018: Responsible for Catholic University of the framework agreement with IIT – Istituto Italiano di Tecnologia for research on 'Human-Humanoid Interaction: Robotics meets human sciences'

- Since 2016: Responsible for Catholic University of the framework agreement with Fondazione Ferrero for research on 'Active and Healthy Ageing'
- Since 2015: Rector's Delegate, Catholic University participation to RUS – *Rete delle Università per lo Sviluppo Sostenibile* (Network of Italian Universities for Sustainable Development)
- 2016-2017: Contributor to the report '*Rapporto Lombardia 2017*', chapters 'Clean energy and climate change' and 'Sustainable production and consumption' (in Italian), *Eupolis Lombardia* for Lombardy Region
- 2016-2017: Cooperation with Assolombarda for the Report 2017 of the 'Observatory on regulation simplification' (in Italian)
- 2015: Member of the Expert Group preparing the National Research Program (NRP) 'Sustainable Economy: Resource-friendly, future-oriented, innovative', SNRF – Swiss National Research Foundation and Swiss National Research Council, Berne
- 2015: PhD Thesis Defence of Marta Trabucchi, University of Bergamo, January
- 2015: Contributor to the international workshop 'Impacts of climate change on ecosystem services', Politecnico di Milano, JRC Ispra, Catholic University, European Commission, June 23, 2015
- 2014: Member of the Organising Committee of the 2nd IAERE Annual Conference, Milan, 13-14 February
- 2013: IAERE 1st Annual Conference, University of Ferrara, February 8-9, 2013, chairperson of the session 'Climate Change 1'
- 2012: PhD Thesis Defence Seminar of Alberto Marzucchi, University of Trento, May
- 2012: PhD Graduation Committee for candidates Giovanni Marin and Perihan Saygin, IMT, Lucca, June
- 2011: Contributor to the report 'Green economy: a comparison of European experiences', Eupolis for the Lombardy Regional Council
- 2010-2011: Contributor to the research project 'Sustainable mobility and electric cars in Lombardy', EnergyLab Foundation, Milan
- 2007: Member of the Project Group for the establishment of ASA, Postgraduate School on the Environment, Catholic University, Brescia
- 2007: Ad hoc Group 10 "Natural resources, secondary raw materials and waste", High Level Group on Competitiveness, Energy and the Environment, European Commission, Brussels
- 2007: 'Innovation Board', Federlegno-Arredo, Milan
- 2006-2010: Review Panel of the EUROCORES Programme 'TECT - The Evolution of Cooperation and Trading', ESF - European Science Foundation, Strasbourg
- 2006-2007: Contributor to the Commission on 'Environmental Statistics and Sustainable Development', ISTAT – National Institute of Statistics, Rome
- 2006-2008: Member of the Inter-ministerial Technical Committee for Mountain Areas - CTIM, CIPE, Ministry of the Economy, Rome
- 2004: Member of the Project Group for the establishment of the Department 'Earth and Environmental Sciences', National Research Council, Rome

- 2002: Delegate of the CNR's President, hearing on environmental accounting in public administrations, Senate of the Italian Republic, Commission 'Environment and Territory', October 23
- 2001-2002: Peer review of the report 'Recovery options for plastic parts from end-of-life vehicles: An eco-efficiency assessment', Oko-Institut for APME – Association of Plastic Manufacturers Europe, Brussels
- 2001-2003: Member of the international network 'Blueprint' on innovation systems and the environment, ZEW and GSF, Germany
- 2001-2002: Research cooperation with IPA (Institute for the Environment), Milan, for the reports: 'New perspectives of the Kyoto Protocol: implementation mechanisms and impacts on competitiveness', for the Italian Ministry of the Environment'; 'The role of energy recovery for the integrated management of waste', for COREPLA
- 2001-2002: Responsible (with others) of the research project 'The economic accounts of Italian mountain areas', INRM (National Institute of Research on Mountain Areas) and UNCEM, Rome
- 2001-2002: Responsible (with others) of the research project 'The socio-economic development plans of Italian Mountain Communities', INRM (National Institute of Research on Mountain Areas) and UNCEM, Rome
- 1999-2000: Research cooperation with IPA (Institute for the Environment), Milan, for the reports: 'White paper on energy and the environment', for Confindustria; 'Perspectives of the Italian waste management industry', for Ecosesto; 'The evolution of demand and supply of waste paper in Italy', for COMIECO and ASSOCARTA

COMMITTEES AND BOARDS

- Since 2016: Member, Steering Committee of the National Research Program (NRP73) 'Sustainable Economy: Resource-friendly, future-oriented, innovative', SNSF – Swiss National Science Foundation, Berne
- Since 2016: Editorial Board, *Rivista Internazionale di Scienze Sociali - Research in Social Sciences*, Vita&Pensiero
- Since 2016: Managing Committee, TROFIC – Transdisciplinary Research on Food Issues Center, Catholic University
- Since 2015: Advisory Board, *Economia Politica – Journal of Analytical and Institutional Economics*, Springer and il Mulino
- Since 2014: Management Board, ETC/WMGE – European Topic Centre on Waste and Materials in the Green Economy, EEA - European Environment Agency, Copenhagen
- Since 2013: Managing Committee, SEEDS - *Sustainability, Environmental Economics and Dynamic Studies* - inter-university research centre between University of Ferrara, Catholic University of Milan, University of Bologna, University Rome 3, University Rome Tor Vergata
- Since 2012: Scientific Committee, Edison Foundation, Milan
- Since 2011: International Advisory Board, book series 'Global Power Shift. Comparative Analysis and Perspectives', Springer-Verlag, Heidelberg

- Since 2011: Management Board, Fondazione Lombardia per l'Ambiente, Milan
- Since 2010: Scientific Committee CSCC, Research Centre on Cognitive Sciences and Communication, Catholic University, Milan
- Since 2008: Management Board, ASA - Postgraduate School on the Environment, Catholic University, Brescia
- Since 1993: Scientific Committee of CRANEC, Catholic University, Milan

INTERNATIONAL CONFERENCES (2000-2019)

- 'Human development and the environment', Research workshop of the SACRU Meeting October 31, 2019, Universitat Ramon Llull, Barcelona; presentation (with S. Beretta) 'Human security, human rights, and the environment'.
- 'Innovation and sustainable growth: is the circular economy a disruptive model?', DEP, DISEIS, and SEEDS, Catholic University, Milan, September 20, 2019 (member of the Scientific Committee, introductory speech, session chairman).
- 'Circular Economy and the Law: Innovation, policies, and regulation for a sustainable development', 6 and 7 June 2019, University of Ferrara; presentation 'Waste Policies and the Circular Economy: A Political Economy Approach'
- 'Circular Economy: How to connect policy, research and business', May 10, 2019, Fondazione Eni Enrico Mattei, Milano; presentation: 'Circular Economy: Connecting research, industry, and policy: A background report for initiatives design'
- 'How demographic and technological change, and fiscal-financial policies can influence a European green economy transition', Expert workshop, EEA and ETC/WMGE - European Topic Centre on Waste and Materials in a Green Economy, Copenhagen, 21-22 February 2019; co-organiser and co-chair; presentations: 'The 2019 EEA Report: Preliminary results'; 'Fiscal sustainability and 'green' finance' (with S. Speck, G. Marin, A. D'Amato, S. Paleari).
- SEEDS Five-years Workshop, Ferrara, May 25, 2017; keynote speech: "Coordinates without coordination: A minimal map of macro-attractors for sustainability economics research"
- SISC Annual Conference 2016 'Climate challenges and solutions under the 2°C target', Cagliari (Italy), October 19-20, 2016; presentation (with G. Marin): 'Transition to a circular economy and climate change'.
- 13th meeting ENEF (European Network on the Economics of the Firm), Turin, September 15-16, 2016, keynote speaker: 'Eco-innovation and firms between private and public goods'.
- EAERE Annual Conference 2016, Policy Session: 'A Circular Economy in Europe: Relevance, Issues, and Policy Options', Zurich, June 23, 2016; invited presentation: 'A Circular Economy beyond waste?'.
- IAERE 2016, Fourth Annual Conference, 11-12 February 2016, Bologna; presentation: 'Do companies gain from environmental disclosure? Evidence from CDP announcements in the stock markets (with G. Marin and V. Miceli); chairman of the session: 'Environmental policy and policy instruments II'.
- World Forum of Regional and Sub-regional Legislative Assemblies, 'Regional and local representation for true global democracy', Milan, 23-24 October 2015; contributor to

background papers and co-chairman of the panel session 4: 'Sustainable development and regions'.

- International Colloquium 'Right to food, peace and democracy: Research and Education in an ethical perspective', Milano, 17-19 September, 2015, Università Cattolica del Sacro Cuore and EXPO Milano 2015; member of the Scientific Committee and chairman of the panel 'Sustainable use of resources: water, land, and the environment' (with Maria Claudia Campos Pinilla).
- ICPP – International Conference on Public Policies, Milan, July 1-4, 2015, Panel T18P25, 'Green fiscal reforms and employment policies', July 1, 2015, panel organiser and chair.
- ICPP – International Conference on Public Policies, Milan, July 1-4, 2015, Plenary session: 'Teaching public policies', July 3, 2015; invited presentation: 'Teaching multidisciplinary public policies'.
- 3rd International Conference on Waste Management - ICWM 2015, Sant'Anna School of Advanced Studies, June 18th-19th 2015, Pisa, Italy; invited presentation: 'Waste Management and Circular Economy: A 'Critical' Perspective'.
- EEA and ETC/WMGE, Expert Workshop on the 'European reference model on waste', 26-27 March 2015, EEA, Copenhagen; presentation: 'Introduction to the European reference model on waste. Modules, their linkages and key features'.
- Final Workshop of 7FP project EMInn: 'Evidence-based policy-making for innovation and resource efficiency', Brussels, March 18, 2015; presentation: 'Waste management and recycling'.
- GGKP – Green Growth knowledge Platform Third Annual Conference "Fiscal Policies and the Green Economy Transition: Generating Knowledge – Creating Impact", UNEP, TERI, Ca' Foscari University, Venice, 29-30 January 2015; accepted paper: The role of non-waste 'product innovation' for waste production through reduced lifetime of goods (with Giovanni Marin).
- Conference of the International Network 'Routes towards Sustainability: Multi-Hazard Mitigation: A Challenge for Sustainability and Safety', Ferrara, September 29th - 30th 2014; presentation: 'Economic evaluation of earthquake damages and mapping socio-economic risks'.
- Green Week 2014, European Commission, DG Environment, workshop 'Building the knowledge base for a greener economy (in collaboration with the European Environment Agency), Brussels, June 4, 2014; invited presentation: 'A Green Economy Transition in the EU. Trends and policies'.
- International Workshop on 'Measuring Progress on "Greening" the Economy: Policies and Practices', UNEP-ILO-Eurostat-EEA, Geneva, 14-15 May 2014; invited discussant, final panel.
- IAERE 2nd Annual Conference, Milan, 13th-14th February 2014; accepted papers: SMEs and Barriers to Eco-Innovation: A Proposed Taxonomy (with A. Marzucchi and G. Marin); The 'emission disease' in services (with G. Marin).
- linteR-La+b, International Interdisciplinary Research Laboratory, Second Edition, USI (Università della Svizzera Italiana), Lugano, 18-19 October 2013, Swiss Academies of Art and Sciences, Fondazione Internazionale Balzan Premio, Accademia Nazionale dei Lincei; chairperson of Session 2: 'Interdisciplinary Discussion/Methodological Approach: Urban Sustainability and Innovation'.

- International Workshop 'Managing waste from disposal to prevention. Conceptual, empirical and policy perspectives', SEEDS, 7 October 2013, University of Ferrara (Italy); presentation: 'Waste policy in the EU: From the environment to industry, and back to the environment?' (with S. Paleari).
- Inaugural Workshop of SEEDS, Inter-university research centre on 'Sustainability, Environmental Economics and Dynamics Studies', 21 January 2013, Ferrara; presentation: 'Dynamic issues in environmental economics'.
- Workshop 'Innovation economics models for EMinInn', jointly organised by TNO, UNU-MERIT and CERIS-CNR, Hoofddorp (NL), 29 November 2012; presentation: 'Drivers of eco-innovation'.
- Workshop 'Signalling the link between resource efficiency and the economy', EEA and DG ENV, Copenhagen, April 25, 2012; presentation: 'Linking environmental and economic 'productivities'' (with M. Mazzanti and G. Marin).
- Rio +20 Regional Science and Technology Workshop for Europe, ICSU and UNESCO, Helsinki, 12-14 October 2011; panellist of the thematic workshop 'Green economy'.
- International conference EAERE 2011, Pre-Conference on Waste Economics, June 29, 2011, Rome; keynote speech: 'Three research questions for the economics of waste'
- International Conference 'The Structure of Economic Systems through Input-Output Applications', Accademia Nazionale dei Lincei and Fondazione Edison, Rome, October 21-22, 2010: paper 'Joining Input-Output and NAMEA: results and research directions' (with G. Marin, A. Montini, M. Mazzanti).
- 16th Annual International Sustainable Development Research Conference 2010, The Kadoorie Institute, The University of Hong Kong, The International Sustainable Development Research Society, Hong Kong, 30 May – 1 June 2010; paper 'Complementarity in eco-innovation: concepts and empirical measurement' (with G. Cainelli and M. Mazzanti).
- International Round Table 'Stimulating Low-Carbon Vehicle Technologies', OECD/IEA Joint Transport research Centre, Paris, 18-19 February 2010; discussant of the invited papers.
- International Workshop 'Strengthening the role of R&D in boosting eco-innovation and eco-efficiency', European Commission, DG Research 1.3, Brussels, November 13, 2009; paper 'Need of indicators to monitor progresses towards a 'green(er) economy''.
- International Conference 'Environment and Energy Innovation in Economic Dynamics', Accademia Nazionale dei Lincei and Edison Foundation, May 21-22, 2009, Rome; paper 'Innovation, environmental efficiency, and economic productivity' (with M. Mazzanti).
- EAEPE 2007 Conference 'Economic growth, development, and institutions - lessons for policy and the need for an evolutionary framework of analysis', Oporto, November 1-3, 2007, papers: 'Environmental efficiency, emission trends and labour productivity: trade-off or complementary dynamics?' (with M. Mazzanti); 'Competitiveness strategies, environmental approaches, and performance in services. Firm based panel data evidence for Italy' (with G. Cainelli and M. Mazzanti); 'Aggregates extraction, environmental charges and regional planning policies Evidence on delinking and policy effectiveness in Italy' (with M. Mazzanti and S. Paleari); 'The evaluation of EU landfill policy effectiveness and the EKC hypothesis for waste generation: A methodology for country studies and empirical evidence from EU15/25 panel data analysis' (with M. Mazzanti).
- Conference 'Monitoring Italy 2007: Process Innovation, Management Efficiency and Economic Performance, ISAE, Rome, October 18, 2007, paper 'Environmentally oriented Innovative

Strategies and Firm Performances in Services. Micro-evidence from Italy' (with G. Cainelli and M. Mazzanti).

- ESEE 2007 Biannual conference, Leipzig, June 2007, papers: "Environmental efficiency, emission trends and labour productivity: trade-off or complementary dynamics?" (with M. Mazzanti); "Environmental Kuznets Curves for air emissions in Italy: Evidence from NAMEA and provincial panel data" (with M. Mazzanti and A. Montini),
- ENVECON Environmental Applied Economics Conference, The Royal Society, London, 23 March 2007, paper: "Environmental Kuznets Curves for air emissions in Italy: Evidence from NAMEA and provincial panel data" (with M. Mazzanti and A. Montini),
- Workshop of the Ad hoc group 10 "Natural resources, secondary raw materials and waste", High Level Group on Competitiveness, Energy and the Environment, European Commission, Brussels, March 27, 2007, presentation 'An increasing role for R&D and innovation in waste and recycling'.
- Conference 'Sustainable resource management, raw materials security, Factor-X resource productivity – tools for delivering sustainable growth in the European Union', Bruges, 6-7 December, 2006; paper "Effectiveness analysis of economic instruments in resource policy" (with Legg D., Leveson-Gower H., Paleari S., Mazzanti M., Herczeg M., Bleischwitz R., Skovgaard M., Dige G.).
- Conference on 'Ex-post policy effectiveness evaluations', EEA, European Environment Agency, in cooperation with Danish EPA, Netherlands Environmental Assessment Agency, UK Environment Agency, ETC/RWM, Copenhagen, November 6-7, 2006; papers: 'Ex-post effectiveness evaluation of environmental policies. A 'catalyst' paper for the EEA expert workshop' (with M. Mazzanti); 'Modelling ex-post environmental policy evaluation: Methodological issues, the structure of relationships and data-related issues' (with M. Mazzanti).
- European Evaluation Society, Joint international conference, London, 4-6 October 2006; paper "Effectiveness analysis of economic instruments in resource policy" (with Legg D., Leveson-Gower H., Paleari S., Mazzanti M., Herczeg M., Bleischwitz R., Skovgaard M., Dige G.).
- International Conference 'ConAccount Meeting' on 'Dematerialization across scales: Measurement, empirical evidence, future options', Institute for Social Ecology, University of Vienna and University of Klagenfurt Wien, September 12-13, 2006, papers: 'Environmental efficiency, Emission Trends and Economic Drivers (with M. Mazzanti and A. Montini); 'Municipal Waste production and economic drivers' (with M. Mazzanti and A. Montini).
- International Conference 'Structural dynamics and economic growth: The central role of energy', EniTecnologie and Accademia Nazionale dei Lincei, March 27-28, 2006, Rome; paper: 'Rents on Natural Resources and Technological Change'.
- 'Business Strategy & the Environment Conference', University of Leeds, September 5-6, 2005; paper 'Examining the forces influencing environmental innovation. Empirical evidence for a manufacturing system' (with M. Mazzanti).
- International Conference on 'Bibliometric Indicators: Quality of Scientific Research, and Research Evaluation', DISEIS and CRANEC, Catholic University, Milan, September 16-17, 2005; paper 'The ECONLIT publications of Italian economists' (with G. Cainelli and A. de Felice).

- International Conference 'Re-founding the energy system: Sustainability after the Kyoto Protocol', EniTecnologie, Accademia dei Lincei, Accademia Nazionale delle Scienze, Rome, April 26-27, 2005; paper: 'Environment-energy policies and economic growth'.
- Conference 'Geosciences for Italy; Problems, competencies, solutions', Committee for the 32nd International Geological Congress, Accademia dei Lincei, Rome, April 20, 2005; paper: 'The economic implications of natural catastrophes'.
- International Conference 'Science for an Environmentally Sustainable Development', Accademia dei Lincei and Royal Society of Canada, Rome, October 7-8, 2004; paper 'Environmental policy and economic costs'.
- Bilateral Seminar Italy-Brasil, Rio de Janeiro, December 2002; papers: 'Innovation and sustainability in industrial districts' (with G. Cainelli and A. Montini); 'Industrial districts in Italy: a macroeconomic perspective'.
- European High Summit, International Year of the Mountains, UN and FAO, May 2002, Milan, coordinator of the Session on 'Economic development of mountain regions', paper 'The European economy and mountain regions' (with A. Quadrio Curzio).
- Thirteenth Annual Conference of EAEPE - European Association for Evolutionary Economics, Siena, November 8-11, 2001; paper 'Infrastructures endowment at local level in Italy' (with A. Montini).
- International conference 'Towards environmental innovation systems', BMBF, EC DG Research, EEAC, Garmisch-Partenkirchen, September 27-29, 2001.
- ERP Environment Conference 'The 2001 Environmental Policy and the Costs of Compliance', London School of Economics, September 17-18, 2001, paper 'The Choice of Environmental Policy Instruments and Induced Technological Innovation. The case of End-of-Life Vehicles' (with M. Mazzanti).
- ERP Environment Annual Conference, Njmigen, The Netherlands, June 21-22, 2001; paper 'The Choice of Environmental Policy Instruments and Induced Technological Innovation. The case of End-of-Life Vehicles' (with M. Mazzanti).
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- 12th World Conference on Earthquake Engineering, 30 January - 4 February 2000 Auckland, New Zealand: paper 'Variation of Tourism Flows in the Umbria Region after the September 26, 1997, Colfiorito (Central Italy) Earthquake' (with Caleffi M., Meroni F., Montini A., Zonno G.).

International research workshops and meeting

- Since 1998, contributor to more than 70 workshops and expert meetings of European research projects and international research consortia

Conferences in Italy

- Since 1998, contributor (with presentations) to more than 120 conferences and workshops

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