

# Giovanni Marin

## Personal information

Married, one son

**Place and date of birth:** Ferrara (Italy), 13 February 1984

**Codice fiscale:** MRNGNN84B13D548I

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## Current positions

Associate Professor of Applied Economics at the Department of Economics, Society, Politics, University of Urbino ‘Carlo Bo’ (Italy), since November 2019

Research affiliate at SEEDS (Sustainability Environmental Economics and Dynamics Studies), Ferrara (Italy), since December 2013

Research affiliate at FEEM (Fondazione Eni Enrico Mattei), Milano (Italy), since May 2022

## Past positions

Assistant Professor (tenure track, RTD-B) of Applied Economics at the Department of Economics, Society, Politics, University of Urbino ‘Carlo Bo’ (Italy), November 2016 - November 2019

Fixed term researcher (Ricercatore a tempo determinato di III livello) at IRCrES-CNR (Research Institute on Sustainable Economic Growth, National Research Council of Italy), Milano (Italy), October 2016 - November 2016

Post-doctoral researcher at IRCrES-CNR (Research Institute on Sustainable Economic Growth, National Research Council of Italy), Milano (Italy), November 2012 - October 2016

Post-doctoral researcher at OFCE-SciencesPo, Sophia Antipolis (France), November 2014 - April 2015

Post-doctoral researcher at OFCE-SciencesPo, Sophia Antipolis (France), November 2015

## Education

**PhD in Economics, Markets and Institutions** IMT (Institutions, Markets, Technologies) Advanced Studies Lucca, from March 2009 to June 2012; dissertation: “Essays in Applied Environmental and Innovation Economics”; supervisor: Francesca Lotti (Banca d’Italia); co-supervisor: Massimiliano Mazzanti (Università di Ferrara)

**Visiting Research Scholar** at the Department of Economics, University of California, Berkeley, invited by Professor Bronwyn H. Hall, from February 2011 to July 2011

**Laurea Magistrale** in Applied Economics and Economic Policies (Economia Applicata e Politiche Economiche), Università di Ferrara, Facoltà di Economia, from October 2003 to December 2008, mark: 110/110 *cum laude*

**Erasmus programme** Univeridad Castilla la Mancha (Toledo, Spain), from September 2004 to February 2005

## Other courses

**EXIOPOL Summer School** on Environmental accounting: externality valuation and Input-Output tools for policy analysis, Venezia, July 2010

**European Summer School** in Industrial Dynamics (ESSID), IEB, Barcelona (Spain), September 2009

## Qualifications

National scientific qualification to function as full professor (“abilitazione”) in: Economia Applicata (SECS-P/06), obtained in 2020 (valid until January 2026), Politica Economica (SECS-P/02), obtained in 2020 (valid until January 2026)

## Awards and grants

- European Award for Researchers in Environmental Economics under the Age of Forty 2021, European Association of Environmental and Resource Economics (EAERE)
- Best paper award in the EIBA 2021 (Madrid) conference for the track Economic Geography and International Business for the paper ‘The effect of foreign entry on local innovation’ (with Giacomo Damoli)
- Fondo per il Finanziamento delle Attività Base di Ricerca (FFABR), Italian Ministry of Education, Universities and Research (2017)
- Short Term Mobility program of the National Research Country of Italy (CNR) for one month visiting period at OFCE-SciencesPo (Sophia Antipolis, France, October 2015)
- Full Ph.D. Scholarship awarded by the Italian Ministry of Education, Italian Ministry of Education, Universities and Research (2009-2012)

## Participation to research projects

### International research projects

European Topic Centre on Circular Economy and Resource Use (European Environment Agency), 2022-2026

European Topic Centre on Waste and Materials in a Green Economy (European Environment Agency), 2019-2021

Trade and Climate change: an energy-economic modelling approach, Tender no TRADE2019/G2/G10 of DG Trade, 2020

Statistical Reporting on Public Sector Innovation, Tender no PN5C/03/2016/G4 of Eurostat, 2017-2018

European Topic Centre on Waste and Materials in a Green Economy (European Environment Agency), 2014-2018

RAstaNEWS “Macro-Risk Assessment and Stabilization Policies with New Early Warning Signals” (Research Project of the 7th Framework Programme), 2013-2017

EMInInn “Environmental Macro Indicator of Innovation” (Research Project of the 7th Framework Programme), 2011-2015

European Topic Centre on Sustainable Consumption and Production (European Environment Agency), 2010-2014

### National research projects

“ASMeC - Attitudini degli Studenti in un Mediterraneo che Cambia”, research project funded by the Italian Ministry of Foreign Affairs and International Cooperation, 2022-2023

“UniTranspFP: L'impronta ambientale dei trasporti dell'Università di Urbino”, research project financed by DESP-UNIURB, 2021-2023

“The Labour Market Distributional Effect of Deindustrialization: Isolating the Effect of Environmental Policies on Workers and Local Labour Markets”, Visitinps Scholar B 2020, 2020-2023

“Innovation for global challenges in a connected world: the role of local resources and socio-economic conditions”, PRIN 2017 (Progetto di Ricerca di Interesse Nazionale), co-PI, responsible for the UNIURB unit, 2019-2023

“La valutazione economica dei disastri naturali in Italia”, 2013-2018, Fondazione Assicurazioni Generali

“Climate change in the Mediterranean area: scenarios, economic impacts, mitigation policies and technological innovation”, PRIN 2010-2011 (Progetto di Ricerca di Interesse Nazionale), 2012-2015

## Organization of events

6th IAERE School ‘Dynamic and Spatial Modelling for Environmental Economics’, Urbino, Italy, July 2022

2nd IAERE School ‘Input Output Analysis for Environmental and Resource Economics’, Urbino, Italy, September 2017

Advanced Course ‘Innovation, Growth and International Production. Models and Data Analysis’, Roma, Italy, May 2017

## Other projects

Erasmus+ KA107 call (2020 call) “The networking and development of WBC and EU HEIs for strengthening third mission: actions for Bosnia and Herzegovina”, August 2020 - July 2023 (role: coordinator)

Erasmus+ KA107 (2020 call) “The networking and development of WBC and EU HEIs for strengthening third mission: actions for Montenegro”, August 2020 - July 2023 (role: coordinator)

## Publications on referred journals

*Exposure to FDI and attitudes towards multinational enterprises: do M&A matter?* (with Chiara Franco and Filomena Pietrovito), 2022, *The World Economy*, online first.

*Greenfield Foreign Direct Investments and Regional Environmental Technologies* (with Davide Castellani, Sandro Montresor and Antonello Zanfei), 2022, *Research Policy*, 51(1):104405.

*Do academic patents influence firms’ performance? Evidence on the Italian Industry* (with Giovanni Cerulli, Eleonora Pierucci and Bianca Poti), 2022, *Journal of Technology Transfer*, 42:242-269.

*The Employment Impact of a Green Fiscal Push: Evidence from the American Recovery and Reinvestment Act* (with David Popp, Francesco Vona and Ziqiao Chen), 2021, *Brookings Papers on Economic Activity*, Fall issue.

*Assessing Disaster Risk by Integrating Natural and Socio-Economic Dimensions: A Decision-Support Tool* (with Marco Modica, Susanna Paleari and Roberto Zoboli), 2021, *Socio-Economic Planning Sciences*, 77:101032.

*The Survival of Italian Individual Firms to Local Demand Shocks During the Great Recession* (with Marco Modica), 2021, *Papers in Regional Science*, 100(3):745-775.

*The Impact of Energy Prices on Socioeconomic and Environmental Performance: Evidence from French Manufacturing Establishments, 1997-2015* (with Francesco Vona), 2021, *European Economic Review*, 135:103739.

*Labour flexibility, internal migration and productivity in Italian regions* (with Giorgio Calcagnini and Francesco Perugini), 2021, *Structural Change and Economic Dynamics*, 57:308-320.

*Dinamiche recenti del manifatturiero alimentare in Italia* (with Francesca Cesaroni and Germana Giombini), 2021, *Argomenti*, 18:77-104.

*Driving forces of changing environmental pressures from consumption in the European food system* (with Philipp Schepelmann, An Vercauteren, José Acosta Fernandez, Mathieu Saurat, Katrien Boonen, Maarten Christis, Roberto Zoboli, Cathy Maguire), 2020, *Sustainability*, 12(19):8265.

- Green stimulus in a post-pandemic recovery: the role of skills for a resilient recovery* (with Ziqiao Chen, David Popp and Francesco Vona), 2020, *Environmental and Resource Economics*, 76:901-911.
- Effectiveness of car scrappage schemes: counterfactual-based evidence on the Italian experience* (with Roberto Zoboli), 2020, *Economics of Transportation*, 21:100150.
- Outward Foreign Direct Investments Patterns of Italian Firms in the EU ETS* (with Simone Borghesi and Chiara Franco), 2020, *Scandinavian Journal of Economics*, 122(1):219-256.
- Climate Policies and Skill-Biased Employment Dynamics: Evidence from EU countries* (with Francesco Vona), 2019, *Journal of Environmental Economics and Management*, 98:102253.
- Environmental Disasters and Electoral Cycle: An Empirical Analysis on Floods and Landslides in Italy* (with Alessio D'Amato and Andrea Rampa), 2019, *Environmental and Resource Economics*, 74(2):625-651.
- Measures, Drivers and Effects of Green Employment: evidence from US local labor markets, 2006-2014* (with Davide Consoli and Francesco Vona), 2019, *Journal of Economic Geography*, 19(5):1021-1048.
- Does Host Market Regulation Induce Cross Border Environmental Innovation?* (with Antonello Zanfei), 2019, *The World Economy*, 42(7):2089-2119.
- Catching-up in waste management. Evidence from the EU* (with Francesco Nicolli and Roberto Zoboli), 2018, *Journal of Environmental Planning and Management*, 61(11):1861-1882.
- The impact of the European Emission Trading Scheme on multiple measures of economic performance* (with Claudia Pellegrin and Marianna Marino), 2018, *Environmental and Resource Economics*, 71(2):551-582.
- Systemic Risk in the Global Water Input-Output Network* (with Tiziano Distefano and Massimo Riccaboni), 2018, *Water Resources and Economics*, 23:28-52.
- Environmental Regulation and Green Skills: An Empirical Exploration* (with Davide Consoli, David Popp and Francesco Vona), 2018, *Journal of the Association of Environmental and Resource Economists*, 5(4):713-753.
- How neutral is the choice of the allocation mechanism in cap-and-trade schemes? Evidence from the EU-ETS* (with Nicola De Vivo), 2018, *Argomenti*, 9:21-44.
- The Economic and Environmental Footprint of the EU Economy: Global Effects of a Transition to Services* (with Roberto Zoboli), 2017, *Rivista Internazionale di Scienze Sociali*, 2:195-228.
- Technology invention and diffusion in residential energy consumption. A stochastic frontier approach* (with Alessandro Palma), 2017, *Energy Economics*, 66:85-98.
- Sustainable development and industrial development: Manufacturing environmental performance, technology and consumption/production perspectives* (with Massimiliano Mazzanti, Francesco Nicolli and Marianna Gilli), 2017, *Journal of Environmental Economics and Policy*, 6(2):183-203.
- Eco-innovation, sustainable supply chains and environmental performances* (with Valeria Costantini, Francesco Crespi and Elena Paglialunga), 2017, *Journal of Cleaner Production*, 155(2):141-154.
- Socio-economic exposure to natural disasters* (with Marco Modica), 2017, *Environmental Impact Assessment Review*, 64:57-66.
- Productivity Effects of Eco-innovations Using Data on Eco-patents* (with Francesca Lotti), 2017, *Industrial and Corporate Change*, 26(1):125-148.
- The Effect of Within-Sector, Upstream and Downstream Energy Taxes on Innovation and Productivity* (with Chiara Franco), 2017, *Environmental and Resource Economics*, 66(2):261-291.
- The Greener the Better. Job Creation and Environmentally-Friendly Technological Change* (with Luisa Gagliardi and Caterina Miriello), 2016, *Industrial and Corporate Change*, 25(5):779-807.
- A Survey of the Literature on Environmental Innovation Based on Main Path Analysis* (with Nicolo' Barbieri, Claudia Ghisetti, Marianna Gilli and Francesco Nicolli), 2016, *Journal of Economic Surveys*, 30(3):596-623.
- Do green jobs differ from non-green jobs in terms of skills and human capital?* (with Davide Consoli, Alberto Marzucchi and Francesco Vona), 2016, *Research Policy*, 45(5):1046-1060.

- SMEs and Barriers to Eco-Innovation in the EU: Exploring different firm profiles* (with Alberto Marzucchi and Roberto Zoboli), 2015, *Journal of Evolutionary Economics*, 25(3):671-705.
- Carbon Dioxide reducing Environmental innovations, sector upstream/downstream integration and policy. Evidence from the EU* (with Susanna Mancinelli, Massimiliano Mazzanti and Francesco Nicolli), 2015, *Empirica*, *Journal of European Economics*, 42(4):709-735.
- Do Eco-Innovations Harm Productivity Growth through Crowding Out? Results of an Extended CDM model*, 2014, *Research Policy*, 43(2):301-317.
- The Evolution of Environmental and Labor Productivity Dynamics - Sector Based Evidence from Italy* (with Massimiliano Mazzanti), 2013, *Journal of Evolutionary Economics*, 23(2):357-399.
- Linking NAMEA and input output for ‘consumption vs. production perspective’ analyses - Evidence on emission efficiency and aggregation biases using the Italian and Spanish environmental accounts* (with Massimiliano Mazzanti and Anna Montini), 2012, *Ecological Economics*, 74:71-84.
- The dynamics and delinking of industrial emissions: The role of productivity, trade and R&D* (with Massimiliano Mazzanti), 2009, *Journal of Innovation Economics & Management*, 3:91-117.

## Book chapters

- The Heterogeneous Impact of Academic Patent Characteristics on Firms’ Economic Performance* (with Giovanni Cerulli, Eleonora Pierucci and Bianca Potì), in (eds. Joaquín M. Azagra-Caro, Pablo D’Este and Davide Barberá-Tomás), *University-Industry Knowledge Interactions: People, Tensions and Impact*, Springer, 2022.
- Structural Change and the Environment: Unbundling the Contributions of Structural Change to Sustainable Consumption and Production* (with Massimiliano Mazzanti), in (eds. Neil Foster-McGregor, Ludovico Alcorna, Adam Szirmai, Bart Verspagen), *New Perspectives on Structural Change: Causes and Consequences of Structural Change in the Global Economy*, Oxford University Press, 2021.
- Water-related perceived harms and pro-environment behaviours: A taxonomy of EU citizens* (with Tiziano Distefano), in (ed. Tiziano Distefano), *Water Resources and Economic Processes*, Routledge, 2021.
- Imprenditorialità femminile ‘verde’ nella provincia di Pesaro e Urbino*, in (ed G. Travaglini), *Lavoro e sviluppo nella provincia di Pesaro e Urbino. Storia, presente e riflessioni sul futuro. Uno sguardo di genere*, EDIESSE Editore, 2018.
- New Perspectives in Public Service Innovation* (with Annaflavia Bianchi and Antonello Zanfei), in (eds F. Gallouj, F. Djellal), *A Research Agenda for Service Innovation*, Edward Elgar Publishers, 2018.
- Closing the Gap? Dynamic Analyses of Emission Efficiency and Sector Productivity in Europe*, in (eds V. Costantini, M. Mazzanti) *The Dynamics of Environmental and Economic Systems. Innovation, Environmental Policy and Competitiveness*, Springer, 2013.
- Aggregation Bias in ‘Consumption vs Production Perspective’ Comparisons - Evidence Using the Italian and Spanish NAMEAs* (with Massimiliano Mazzanti and Anna Montini), in (eds V. Costantini, M. Mazzanti and A. Montini) *Hybrid Economic and Environmental Accounts*, Routledge, 2012.
- Emissions Trends and Labour Productivity Dynamics* (with Massimiliano Mazzanti), in (eds M. Mazzanti, A. Montini) *Environmental Efficiency, Innovation and Economic Performances*, Routledge, 2010.

## Working papers

- The Next Wave of Energy Innovation: Which Technologies? Which Skills?* (with David Popp, Francesco Vona and Myriam Grégoire-Zawilski), 2022, NBER Working Papers no. 30343 (submitted in Review of Environmental Economics and Policy)
- Finance and the Reallocation of Scientific, Engineering and Mathematical Talent* (with Francesco Vona), 2022, Working Papers 2022.17, Fondazione Eni Enrico Mattei (R&R in Research Policy)
- Fiscal Policy Response of Local Governments to Floods in Italy* (with Chiara Lodi and Marco Modica), 2022, available at SSRN: <https://ssrn.com/abstract=4156684> (under review in *Journal of Environmental Management*)

*Climate Change, Armed Conflicts and Resilience* (with Mariagrazia D'Angeli and Elena Paglialunga), 2022, SEEDS Working Papers Series, 2/2022.

*Energy Prices and Firms' Economic Performance in Emerging Countries* (with Massimiliano Calì, Nicola Cantore, Massimiliano Mazzanti and Francesco Nicolli), 2021, UNIDO Working Paper 4/2021 (R&R in Structural Change and Economic Dynamics)

*The effects of foreign entry on local innovation* (with Giacomo Damioli), 2020, EUR 30490 EN, Publications Office of the European Union, Luxembourg, ISBN 978-92-76-27019-5, JRC122433 (R&R in Research Policy).

*Routinization, Within-Occupation Task Changes and Long Run Employment Dynamics* (with Davide Consoli, Francesco Rentocchini, Francesco Vona), 2019, Sciences Po Ofce Working Paper 8/2019 (R&R in Research Policy).

*Drivers of international shipments of hazardous waste: the role of policy and technology endowment* (with Francesco Nicolli and Emy Zecca), 2017, SEEDS Working Paper 01/2017.

*Matching of PATSTAT applications to AIDA firms - Discussion of the methodology and results* (with Francesca Lotti), 2013, 'Questioni di Economia e Finanza', no. 166, Banca d'Italia.

## Technical reports

*The sustainability transition in Europe in an age of demographic and technological change. An exploration of implications for fiscal and financial strategies* (prepared with Stefan Speck, Roberto Zoboli, Susanna Paleari, Massimiliano Mazzanti, Valeria Costantini, Nicolò Barbieri, Marianna Gilli, Alessio D'Amato, Mariangela Zoli, Gorgia Sforza and Andrea Bassi), 2020, EEA Report, No. 23/2019.

*Measuring public innovation in the EU: the STARPIN methodology* (prepared with Annaflavia Bianchi, Claudio Cozza, Giulio Perani, Robbin Te Velde, Antonello Zanfei, Emy Zecca), 2019, Eurostat Manuals and Guidelines, ISBN 978-92-76-01095-1

*Industrial Development Report 2018. Demand for Manufacturing: Driving Inclusive and Sustainable Industrial Development* (UNIDO, United Nations Industrial Development Organization)

*Industrial Development Report 2016. The Role of Technology and Innovation in Inclusive and Sustainable Industrial Development* (UNIDO, United Nations Industrial Development Organization)

*Resource-efficient green economy and EU policies* (prepared with Roberto Zoboli, Susanna Paleari, Massimiliano Mazzanti, Francesco Nicolli, Anna Montini, Valeria Miceli and Stefan Speck), EEA Report, No. 2/2014

*Progress in Sustainable Consumption and Production in Europe - Indicator-based Report* (prepared with David Watson, David McKinnon, Anders Bjorn, Mikkel Stenbaek Hansen, Dominic Wittmer, Justus von Geibler, Mathieu Saurat, Helmut Schutz, Samus Tobias, Roberto Zoboli, Massimiliano Mazzanti, Massimiliano Volpi, Ilaria Beretta, Lucia Dal Negro), 2011, ETC/SCP working paper 1/2011

*Towards a green economy in Europe - EU environmental policy targets and objectives 2010-2050* (prepared with Mike Asquith, Anna Montini, Susanna Paleari, Stefan Speck and Roberto Zoboli), 2013, EEA Report No 8/2013

## Conferences and presentations

### Invited talks

Keynote speaker at the workshop 'Born to be green: the economics and management of green start-ups', University of Southampton (UK), May 2015

Keynote speaker at the WICK PhD Workshop in Economics of Innovation, Complexity and Knowledge, University of Torino (Italy), January 2019

## Conferences and seminars

- 2009** EMAN EA-SDI Conference 2009 (Prague, Czech Republic, April 2009), DRUID Summer Conference 2009 (Copenhagen, Denmark, June 2009), 50 Riunione Annuale della Società degli Economisti Italiani (Roma, October 2009)
- 2010** Lunch Seminar (Dipartimento di Scienze Economiche, Università di Pisa, May 2010), Eco-efficiency Conference (Egmond aan Zee, Netherlands, June 2010), ISEE 11th Biennial Conference (Oldenburg and Bremen, Germany, August 2010), Workshop 'The Economics of Green IT' (ZEW, Mannheim, Germany, November 2010)
- 2011** International Scientific Conference 'Sustainable Consumption - Towards Action and Impact' (Hamburg, Germany, November 2011)
- 2012** European Seminar EuroLIO 2012 'Geography of Innovation' (Saint-Etienne, France, January 2012), Workshop 'Presente e Futuro dell'Economia dell'Ambiente e delle Risorse Naturali in Italia' (Università di Roma Tor Vergata, February 2012), Brown Bag Seminar IMT Lucca (Lucca, March 2012), Lunch seminar Banca d'Italia (Roma, March 2012), Lunch seminar Università di Ferrara (Ferrara, May 2012), EAERE 2012 (Prague, Czech Republic, June 2012), Conference 'The Governance of a Complex World' (Nice, France, November 2012), Workshop on 'Innovation in Italy' (Banca d'Italia, SADIBA, Perugia, December 2012)
- 2013** Workshop 'Innovazione, Produttività a Crescita in Italia' (Arcavacata di Rende, CS, March 2013), EMAEE Conference (Nice, France, June 2013), DRUID Summer Conference 2013 (Barcelona, Spain, June 2013), EAERE 2013 (Toulouse, France, June 2013), AISRe Conference 2013 (Palermo, September 2013), Workshop 'Eco Innovation in the EU: Conceptual and Empirical Perspectives' (Ferrara, September 2013), XXVIII Convegno Nazionale di Economia del Lavoro (Roma, September 2013), LIME Seminars (IMT Lucca, November 2013), IEFE-FEEM Joint Seminar (Milano, December 2013)
- 2014** INGENIO (CSIC-UPV) Seminars in Science and Innovation (Valencia, Spain, January 2014), IAERE Conference (Milano, Italy, February 2014), OFCE-SKEMA Seminar Series (Nice, France, May 2014), EU-SPRI Conference 2014 (Manchester, UK, June 2014), WCERE Conference 2014 (Istanbul, Turkey, June 2014), International Schumpeter Society Conference 2014 (Jena, Germany, July 2014), XV Global Conference on Environmental Taxation (Copenhagen, Denmark, September 2014), 55 Riunione Annuale della Società degli Economisti Italiani (Trento, October 2014), Workshop 'Explaining Economic Change' (Roma, Italy, November 2014), 2014 Italian State Users Group meeting (Milano, Italy, November 2014), Workshop 'Innovation in waste management: linking the Circular Economy and the Waste Hierarchy' (Espoo, Finland, November 2014)
- 2015** Green Growth Knowledge Platform Conference (Venezia, Italy, January 2015), IAERE Annual Conference (Padova, Italy, February 2015), Lunch seminar Università di Ferrara (Ferrara, Italy, April 2015), EAERE Conference 2015 (Helsinki, Finland, June 2015), Economics of Innovation, Diffusion, Growth and the Environment (London, UK, September 2015), Ecology at the Interface, European Ecological Federation (Roma, Italy, September 2015)
- 2016** IAERE Annual Conference (Bologna, Italy, February 2016), Seminari del Dipartimento (Pescara, Italy, February 2016), Workshop 'Spatial Evolution of Industries, Jobs and Innovative Activities. New Methods and Data' (Sophia Antipolis, France, April 2016), Mannheim Energy Conference (Mannheim, Germany, May 2016), EAERE Conference 2016 (Zurich, Switzerland, June 2016), IWCEE 2016 (Roma, Italy, June 2016), ENEF Workshop 2016 (Torino, Italy, September 2016), SISC Annual Conference 2016 (Cagliari, Italy, October 2016), KOF Research Seminar, ETH-Zurich (Zurich, Switzerland, November 2016)
- 2017** IAERE Annual Conference (Roma, Italy, February 2017), SEEDS Workshop (Ferrara, Italy, May 2017), Workshop 'Beyond Routine Replacing Technical Change' (Nice, France, June 2017), EAERE Conference 2017 (Athens, Greece, June 2017), AISRe Conference 2017 (Cagliari, Italy, September 2017), XI Convegno Italiano di Sociologia dell'Ambiente (Chieti, Italy, September 2017)
- 2018** IAERE Annual Conference (Torino, Italy, February 2018), Royal Economic Society Conference (Brighton, UK, March 2018), Seminar at Università Politecnica delle Marche (Ancona, Italy, May 2018), WCERE Conference 2018 (Gothenburg, Sweden, June 2018), AERNA Conference 2018 (Madrid, Spain, September 2018), SEEDS Workshop (Ferrara, Italy, September 2018) Workshop 'New Perspectives on Structural Change Causes and Consequences of Structural Change in the Global Economy' (Maastricht, Netherlands, September 2018), Economia Circolare e Sviluppo Sostenibile (Urbino, Italy, October 2018), OECD GGSD-GGKP Conference on Inclusive Solutions for the Green Transition (Paris, France, November 2018)

- 2019** IAERE Annual Conference (Udine, Italy, February 2019); International Workshop on The Economics of Climate Change and Sustainability (Bologna, Italy, May 2019); Sèminaire Développement Durable Environnement et Energie (University Paris-Nanterre, France, May 2019); Workshop on Technology, Work and Internationalization (Urbino, Italy, May 2019); Seminar at VATT (Helsinki, Finland, June 2019); EAERE Conference 2019 (Manchester, UK, June 2019); AISRe Conference 2019 (L'Aquila, Italy, September 2019); SEEDS Workshop "Innovation and sustainable growth: is the circular economy a disruptive model?" (Milano, Italy, 2019); 60 Riunione Annuale della Società degli Economisti Italiani (Palermo, Italy, October 2019); Seminar at University of Bremen (Bremen, Germany, December 2019)
- 2020** IAERE Annual Conference (Brescia, Italy, February 2020), EAERE 2020 Online Conference, Online Workshop on "The Political Economy of Carbon Pricing Post Covid-19" (organised by OECD)

## Teaching

- Economia regionale (Regional economics), University of Urbino (undergraduate), Academic Year 2020-2021 - in Italian (36 hours, 6 CFU)
- Economia dell'innovazione (Economics of innovation), University of Urbino (master), Academic Years 2017-2018; 2018-2019; 2019-2020 - in Italian (48 hours, 8 CFU)
- Economia dell'ambiente e del territorio (Environmental and land economics), University of Urbino (master), Academic Years 2017-2018; 2018-2019; 2019-2020 - in Italian (42 hours, 6 CFU)
- Economics of globalisation, University of Urbino (master), Academic Years 2017-2018, 2018-2019, 2019-2020, 2020-2021 - In English (48 hours, 8 CFU)
- Global Political Economy, University of Urbino and Villanova University (US), Academic Years 2016-2017; 2017-2018; 2018-2019; 2019-2020 - In English (45 hours)
- Applied Econometrics, University of Urbino (Ph.D.), Academic Year 2017-2018; 2019-2020 - in English (30 hours)

## PhD thesis supervision

- Mariagrazia D'Angeli (supervisor; co-supervisor: prof. Valeria Costantini), University of Urbino, Ph.D. graduation: expected Spring 2023.
- Revathi Palat Rao, University of Urbino, Ph.D. graduation: expected Spring 2023.
- Alessandro Bellocchi (co-supervisor; supervisor: prof. Giuseppe Travaglini), University of Urbino, Ph.D. graduation: Spring 2021.
- Tiziano Distefano (co-supervisor; supervisor: prof. Massimo Riccaboni), IMT Institute for Advanced Studies, Ph.D. graduation: Fall 2015.

## Institutional activity

- Member of the Board of Governors of the University of Urbino Carlo Bo (2022-2024)

## Referee and editor

- Member of the editorial board of the SEEDS Working Paper Series
- Member of the scientific board of the journal Argomenti (UniURB Open Journals)
- Referee for: Ecological Economics, Research Policy, Journal of Evolutionary Economics, Sustainability, Journal of Cleaner Production, Structural Change and Economic Dynamics, Economia Politica, Environmental and Resource Economics, Economia E Politica Industriale, Economics of Innovation and New Technology, Regional Studies, Industrial and Corporate Change, Energy Economics, Eurasian Business Review, Plos One, Energy Policy, Journal of Environmental Economics and Management, Industry and Innovation, Climate Policy, International Journal of Applied Behavioral Economics (IJABE), Waste Management, The Annals of Regional Science, International Journal of Social Economics, International Journal of Computational Economics and Econometrics, R&D Management, Economics Bulletin, Economic Analysis and Policy, Applied Energy, International Review of Economics and Finance, Piccola Impresa/Small Business,



International Journal of Disaster Risk Reduction, Environment, Development and Sustainability, Journal of the Association of Environmental and Resource Economists, Web Ecology, Climate, International Journal of Innovation and Sustainable Development, Energies, Science of the Total Environment, Ecological Modelling, International Journal of Emergency Services, Journal of International Business Policy, Technological Forecasting and Social Change, Journal of Business Venturing, International Journal of Production Economics, Energy Transitions, International Journal of Sustainable Development, Journal of Development Economics, Journal for Labour Market Research, Energy Efficiency, Journal of Environmental Economics and Policy, Jahrbuch fur Regional Wissenschaft, Italian Economic Journal, International Review of Financial Analysis, Journal of Regional Science, Sustainable Production and Consumption, Review of Regional Research, International Journal of Disaster Risk Science, Technology Analysis and Strategic Management, Social Sciences, Journal of Economic Surveys, Environment, Systems and Decisions, Natural Hazards and Earth System Sciences, Environmental Science & Policy

## Impact factor

Google Scholar: 2184 citations; H-index: 23; i-10 index: 29

Scopus: 38 documents, 46 co-authors, 953 citations; H-index: 16; i-10: 21

## Membership

Member of the Scientific Committee for Thematic Labs of the Italian Institute of Statistics (Istat, 2017-2018)

Council member of the Italian Association of Environmental and Resource Economics (IAERE) 2016-2019, member since 2012

Member of the Scientific Committee of the association Aree Fragili APS since 2018

Member of the European Association of Environmental and Resource Economists (EAERE) since 2010

Member of the Italian Economic Association (SIE) since 2019

## Languages

**Italian:** mother tongue

**English:** fluent, C1

**Spanish:** good, B2

**French:** basic, A2