

# Giovanni Marin

## Personal information

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

**Permanent address:** Via Martin Luther King, 6, 45030 Occhiobello (RO), Italy

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## Current position

Assistant Professor (tenure track, RTDb) at the Department of Economics, Society, Politics, University of Urbino (Italy), since November 2016

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

## Past positions

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** Universidad 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 associate professor (“abilitazione”) in Political Economy (13/A2), obtained in 2013 and 2014 (valid until December 2020)

## Work experience

### Research assistant

**January 2014 - March 2014** “Creation of an integrated database innovation-environment with input-output data and empirical investigation of drivers of innovation”, supervisor: Massimiliano Mazzanti (Università di Ferrara)

**September 2012 - December 2012** “Collecting and processing data on nighttime luminosity for about 400 European cities for the years 2000-2010, by using software such as ArcMap and STATA; processing data in the geographical coordinates of the borders resulting from the partitions of the Carolingian Empire that took place in 843 and 870 respectively”, supervisors: Massimiliano Gaetano Onorato and Mark Dincecco (IMT Institute for Advanced Studies Lucca)

**September 2012 - October 2012** “Assembly of data set containing information on contemporaneous institutions (quality of democracy, political rights, corruption, rule of law, civil liberties) and data on the history, society, educational attainment, wealth, political institutions for about 140 former colonies”, supervisor: Massimiliano Gaetano Onorato (IMT Institute for Advanced Studies Lucca)

**June 2012** “Data assembly regarding duration and beginning of several financial crisis from 1800 to 2012 for 70 countries”, supervisor: Massimiliano Gaetano Onorato (IMT Institute for Advanced Studies Lucca)

**June 2010** “Elaboration of data on municipal, provincial, regional and national elections for Italian capitals of the province for the years 1993-2009”, supervisor: Francesco Sobbrino (IMT Institute for Advanced Studies Lucca)

**April 2009 - June 2009** “Review of studies regarding the economic valuation of marine biodiversity and ecosystem functions. Elaboration of a report on the socio-economic situation of the Northern-Adriatic Sea region in which the value can be used in a logic of benefit transfer”, Dipartimento di Biologia Evoluzionistica Sperimentale, Università di Bologna

### Other

**July 2015 - June 2016** Consultant of Fondazione Tagliacarne - Unioncamere for a tender of the Italian Ministry of the Environment for the implementation of the Marine Strategy Framework Directive

**September 2011 - January 2012** Occasional collaboration with CERIS-CNR (Milano) for the project ‘Statistical, econometric and input-output analysis about emissions embodied in production, consumption and trade flows aimed at integrating these results with environmental accounts such as NAMEA’ in collaboration with the International Consortium ETC-SCP (European Topic Center on Sustainable Consumption and Production, Copenhagen)

**June 2014 - November 2014** Consultant of CURSA (Consorzio Universitario per la Ricerca Socioeconomica e per l’Ambiente) for a tender of the Italian Ministry of the Environment for the implementation of the Marine Strategy Framework Directive

## Awards and grants

- 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, University and Research (2009-2012)

## Participation to research projects

### International research projects

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

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

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

### National research projects

“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

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

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

## Publications on referred journals

- (1) *Technology invention and diffusion in residential energy consumption. A stochastic frontier approach* (with Alessandro Palma), forthcoming, Energy Economics.
- (2) *Catching-up in waste management. Evidence from the EU* (with Francesco Nicolli and Roberto Zoboli), forthcoming, Journal of Environmental Planning and Management.
- (3) *Sustainable development and industrial development: Manufacturing environmental performance, technology and consumption/production perspectives* (with Massimiliano Mazzanti, Francesco Nicolli and Marianna Gilli), online first, Journal of Environmental Economics and Policy.
- (4) *Eco-innovation, sustainable supply chains and environmental performances* (with Valeria Costantini, Francesco Crespi and Elena Paglialunga), online first, Journal of Cleaner Production.
- (5) *Socio-economic exposure to natural disasters* (with Marco Modica), 2017, Environmental Impact Assessment Review, 64:57-66.
- (6) *Productivity Effects of Eco-innovations Using Data on Eco-patents* (with Francesca Lotti), 2017, Industrial and Corporate Change, 26(1):125-148.
- (7) *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.
- (8) *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.
- (9) *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.
- (10) *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.

- (11) *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.
- (12) *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.
- (13) *Do Eco-Innovations Harm Productivity Growth through Crowding Out? Results of an Extended CDM model* 2014, *Research Policy*, 43(2):301-317.
- (14) *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.
- (15) *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.
- (16) *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

- (1) *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.
- (2) *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.
- (3) *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

- (1) *Environmental Disasters and Electoral Cycle: An Empirical Analysis on Floods and Landslides in Italy* (with Alessio D’Amato and Andrea Rampa), 2017, SEEDS Working Paper 02/2017.
- (2) *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.
- (3) *The integrated economic and environmental footprint of the EU: domestic and global effects of a transition to services* (with Roberto Zoboli, SEEDS Working Paper Series, No 2016-08.
- (4) *Measures, Drivers and Effects of Green Employment: evidence from US local labor markets, 2006-2014* (with Davide Consoli and Francesco Vona), 2016, OFCE Working Papers, 22-2016.
- (5) *Outward Foreign Direct Investments Patterns of Italian Firms in the EU ETS* (with Simone Borghesi and Chiara Franco), 2016, SEEDS Working Paper Series, No 2016-01 (R&R on *Scandinavian Journal of Economics*).
- (6) *The impact of the European Emission Trading Scheme on multiple measures of economic performance* (with Claudia Pellegrin and Marianna Marino), 2015, , 2015, SEEDS Working Paper Series, No 2015-21 (R&R on *Environmental and Resource Economics*).
- (7) *Green Skills* (with Francesco Vona, Davide Consoli and David Popp), 2015, NBER Working Paper No. 21116; CESifo Working Paper No. 5323 (R&R on *Journal of the Association of Environmental and Resource Economists*).
- (8) *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.

## Ongoing research

- Environmental Regulation and Green Skills: an empirical exploration (with Francesco Vona, Davide Consoli and David Popp), R&R on *Journal of the Association of Environmental and Resource Economists*)
- Systemic Risk in the Global Water Input-Output Network (with Tiziano Distefano and Massimo Riccaboni, under review on *Water Resources and Economics*)
- The Impact of Energy Prices on Establishments' Environmental and Economic Performance. Evidence from the French Manufacturing Sector (with Francesco Vona)
- Do companies gain from environmental disclosure? Evidence in the stock markets (with Valeria Miceli and Roberto Zoboli)
- Task, Technology and Education: bringing the race to data (with Davide Consoli, Francesco Rentocchini and Francesco Vona)
- The Age of Resilience. Impact of the Great Recession on Italian Individual Firms (with Marco Modica)
- Finance and the Mis-Allocation of Scientific, Engineering and Mathematical Talents (with Francesco Vona)
- The role of non-waste product innovation for waste production through reduced lifetime of goods (with Roberto Zoboli)
- The Emission Disease in Services (with Roberto Zoboli)
- Crossing the Hurdle of Patenting. Effect of the First Patent on Productivity and Size of Italian Manufacturing SMEs (with Giovanni Cerulli and Bianca Potì)

## Technical reports

- 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, Giovanni Marin, 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

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

### 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), IEFEE-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), Workshop ‘Beyond Routine Replacing Technical Change’ (Nice, France, June 2017)

## Teaching experience

- Economia dell’innovazione (Economics of Innovation), University of Urbino (master), Academic Year 2017-2018 - in Italian
- Economia dell’ambiente e del territorio (Environmental and Land Economics), University of Urbino (master), Academic Year 2017-2018 - in Italian
- Applied Econometrics, University of Urbino (Ph.D.), Academic Year 2017-2018 - in English
- Global Political Economy, University of Urbino and Villanova University (US), Academic Year 2016/2017 - In English (45 hours)
- Teaching assistant Metodologie per la valutazione delle politiche e tecniche per le decisioni (Methods for evaluating public policies and decision choice), Master in Public Policy (Laurea Magistrale in Politiche Pubbliche), Catholic University of Milan, Academic Year 2016/2017 (with Professor Erika Uberti) - in Italian
- Energy Economics (Politecnico di Milano), Master (Laurea Magistrale) in Energy Engineering, Academic Year 2015/2016 (with Professor Elena Fumagalli) - in English (36 hours)
- Teaching assistant for undergraduate students in 2007-2008 at the University of Ferrara: game theory, statistics, econometrics and mathematics

## Thesis supervision

Co-supervisor (with Massimo Riccaboni) of Tiziano Distefano (IMT Institute for Advanced Studies), Ph.D., graduation: Fall 2015.

## Referee and editor

Research Policy, Industrial and Corporate Change, Energy Policy, Energy Economics, Ecological Economics, Environmental and Resource Economics, Regional Studies, Economics of Innovation and New Technology, Industry and Innovation, Technological Forecasting and Social Change, Technology Analysis & Strategic Management, Small Business Economics, Journal of Evolutionary Economics, Environmental Economics and Policy Studies, Journal of Cleaner Production, Journal of Economic Studies, International Journal of Sustainable Development, Climate Policy, Science of the Total Environment, International Journal of Computational Economics and Econometrics, International Journal of Innovation and Sustainable Development, Sustainability, *Economia Politica* (Journal of Analytical and Institutional Economics), *Economia e Politica Industriale* (Journal of Industrial and Business Economics), Ecological Modelling, Journal of Business Venturing, International Journal of Production Economics, *Energies*, International Journal of Emergency Services, *Eurasian Business Review*, Druid Society Conference 2011, 2012, 2013, 2014, 2015, 2016

Member of the editorial board of the SEEDS Working Paper Series

## Impact factor

Google Scholar: 337 citations; H-index: 11; i-10 index: 12

Scopus: 82 citations; H-index: 5; i-10: 3

## Membership

Member of the Scientific Committee of the Italian Institute of Statistics (Istat) since 2017

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

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

Member of the Italian Association of Climate Science (SISC) since 2016

## Languages

**Italian:** mother tongue

**English:** fluent, C1

**Spanish:** good, B2

**French:** basic, A2