

# CURRICULUM VITAE

**Sandro Montresor**

## PERSONAL INFORMATION

- Date and Place of Birth: July 14, 1968, Verona (Italy).
- Languages: Italian (native), English (fluent), Spanish (fluent).
- Married, one child.

## CURRENT AFFILIATION AND CONTACTS

Full Professor of Applied Economics (Italian SSD: SECS-P/06), Department of Economics and Management, University of Trento, Italy.

- Skype: sandro.montresor
- Emails: [sandro.montresor@unitn.it](mailto:sandro.montresor@unitn.it) (main); [sandro.montresor@gmail.com](mailto:sandro.montresor@gmail.com) (alternative)

- Web-pages:

- Official webpage: <https://webapps.unitn.it/du/it/Persona/PER0055145/Curriculum>
- Personal webpage: <https://sites.google.com/site/mon3sandro/>
- ORCID web-page: <http://orcid.org/0000-0002-1195-901X>
- Publons web-page: <https://publons.com/researcher/1646630/sandro-montresor/>
- Reviewer web-page (for Elsevier):  
<https://www.reviewerrecognition.elsevier.com/#/profile/8b3780c5-3c25-44ab-8458-54389ef564a7>

## RESEARCH THEMES

*Disciplines and JEL codes (main)*

- Economics of Innovation: O31, O32, O33, O35, O38;
- Regional and Urban Economics: R11, R12
- Industrial Organization: L24, L22, L16, L26;

*Fields of research (main)*

- Eco-innovations: drivers, modes and impacts at the firm-level;
- New digital technologies and Industry 4.0: development, adoption and diffusion across firms;
- Geography of innovation and new technologies: green, digital, and the twin-transition;
- Innovation and intangibles: R&D and non-R&D drivers (in particular, design) of innovation.

## EDUCATION

- 07/1998: *PhD in Economic Structures and Behaviours*, University of Bologna (I); Thesis on “An intersectoral analysis of technological systems: empirical evidence on the OECD countries in the decay 1980-1990”; Dissertation Committee: Alberto Chilosi, Stefano Fenoaltea, Furio Camillo Rosati;
- 11/1996: *Master of Arts in Economics* (with Distinction), University of Manchester (UK); Thesis on: “International technological gaps and patterns of trade: a critical survey and some empirical analysis”;
- 10/1992: 4-year *Bachelor in Economics and Business* (cum laudem), University of Verona (I); Thesis on “Disaggregated estimation of the capital stock matrix: problems and methods”.

## ACADEMIC CAREER, PROFESSIONAL POSITIONS AND AWARDS

### *Academic and research positions*

- 01/2024 – at present: Full Professor of Applied Economics, University of Trento, Department of Economics and Management.
- 09/2019 – 31/3/2024: Full Professor of Applied Economics, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy), Social Sciences Area.
- 10/2014 – 08/2019: Full Professor of Economic Policy, University Kore of Enna (Italy), Faculty of Economics and Law.
- 03/2005 – 09/2014: Associate Professor of Economics, University of Bologna (Italy), Faculty of Law (until 2012-2013) and Department of Economics;
- 10/2011 – 10/2013: Senior Research Grant Holder, JRC-IPTS, European Commission, Seville (Spain) (temporarily on-leave from the University of Bologna);
- 10/2000 – 02/2005: Assistant Professor of Economics, University of Bologna (Italy), Faculty of Law and Department of Economics;
- 07/1999 – 09/2000: Post-doctoral research scholar, University of Bologna (Italy), Department of Economics;
- 03/1993 – 05/1999: Junior research scholar (different contracts), Institute on the Dynamics of Economic Systems (IDSE), Italian National Research Council (CNR), Milan (at present, IRCrES-CNR, Research Institute on Sustainable Economic Growth, formerly CERIS-CNR, Research Institute on the Firm and Development (until 2014).

### *Directorship and coordination positions*

- 11/2020 – 31/3/2024: Member of the Senate of the Gran Sasso Science Institute (GSSI) of L’Aquila (IT).
- 06/2019 – 1/3/2024: Coordinator of the Doctoral Program in Regional Science and Economic Geography, GSSI (Academic cycles: XXXVI, XXXVII, XXXVIII, and XXXIX).
- 10/2019 – 10/2022: Member of the Directive Council of the Italian Economic Association (Società Italiana degli Economisti) (SIE).

- 4/2017 – 8/2019: Director of the School of Economics, University Kore of Enna (IT), and Coordinator of the Kore University seminar and WP series in Business and Economics (KoreBE), Kore University of Enna (IT).
- 10/2011 – 10/2013: Co-coordinator of the Monthly Internal Scientific Seminars (MISS) of the Industrial Research and Innovation Action, JRC-IPTS, European Commission of Seville (ES).
- 10/2008 – 10/2011: Director of the International Master in Development, Innovation and Change (MiDIC), University of Bologna (Italy), in partnership with GSP (University of Freiburg) and China University of Political Science and Law.

#### *Editorial positions*

- 2/2019 – at present: Co-Editor in Chief and Associate Editor of *Economia Politica – Journal of Analytical and Institutional Economics* (<http://www.springer.com/economics/policy/journal/40888>).
- 2/2019 – at present: Member of the Editorial Board of *Eurasian Business Review: A Journal in Industrial Organization, Innovation and Management Science* (<https://www.springer.com/business+%26+management/journal/40821>).
- 09/2014 – at present: Associate Editor of *Industry & Innovation* (<http://www.tandfonline.com/loi/ciai20>).
- 11/2014 – 2/2019: Associate Editors' coordinator and Associate Editor of *Economia Politica – Journal of Analytical and Institutional Economics* (<http://www.springer.com/economics/policy/journal/40888>).

#### *Membership of scientific committees*

- 05/2015 – at present: Member of the Scientific Committee of the Research Centre of Economic Analyses and International Economic Development (CRANEC), Catholic University of Milan (IT).
- 1/2003 – at present: Member of the Scientific Committee of the School of Development, Innovation and Change (SDIC) (IT).
- 11/2008 – 11/201: Member of the Directive Committee of the Department of Economics, University of Bologna.
- 10/2018 – 5/2021: Member of the Scientific Committee appointed by the Italian Ministry of University and Research for evaluating applicants' demands for the qualification to act as Associate and Full Professor in Economic Policy (13/A2) in the Italian academic system, ASN2018-2020.

#### *Professional affiliations (subscription linked to conferences participation):*

- Danish Research Unit for Industrial Dynamics (DRUID);
- The International Schumpeter Society (ISS);
- European Association of Evolutionary Political Economy (EAEPE);
- European Meetings on Applied Evolutionary Economics (EMAEE);
- European Network on the Economics of the Firm (ENEF);

- International Input-output Association (IIOA);
- Italian Economics Association (Società Italiana di Economia) (SIE).
- Italian Association of Industrial Economics (Società Italiana di Economia e Politica Industriale) (SIEPI).
- Italian Association of Regional Sciences (Associazione Italiana di Scienze Regionali) (AISRE)
- Italian Association of Environmental and Resource Economists (IAERE).

#### *Awards*

- Stough Johansson Springer Award of the Western Regional Science Association Conference 2021
- Best Paper Award of the Uddevalla Symposium 2019;
- Industry and Innovation Award for the Best Paper 2013-2014;
- Nomination for the DRUID Conference Award for Best Paper 2007.

## PUBLICATIONS

### *Volumes*

- (2) 2008, *Dynamic Capabilities between Firm Organization and Local Systems of Production*, London, Routledge (eds.); with Riccardo Leoncini;
- (1) 2003, *Technological Systems and Intersectoral Innovation Flows*, Cheltenham, Edward Elgar; with Riccardo Leoncini.

### *Special issues of journals as editor*

- (5) 2023, “Regions facing the “twin transition”: combining regional green and digital innovations”, *Regional Studies* (in progress); with Alessandra Faggian and Alberto Marzucchi.
- (4) 2023, “Innovation and firms within the new industrial paradigm of the digital transformation”, *Industry and Innovation* (Vol. 30, n.1); with Elena Cefis, Riccardo Leoncini, and Luigi Marengo.
- (3) 2019, “Communities on the move: Effects of diasporas on regional development, innovation and entrepreneurship”, *Regional Studies* (Vol.53, n.1); with Mario Davide Parrilli and Michaela Tripl.
- (2) 2016, “Financing constraints, R&D investments and innovation performances”, *Economics of Innovation and New Technology* (Vol.25, n.3); with Bronwyn H. Hall, Pietro Moncada-Paternò-Castello, and Antonio Vezzani.
- (1) 2009, “Innovation, industry and the nature of the firm”; *Economia Politica, Journal of Analytical and Institutional Economics* (Vol.XXVI, n.3).

### *Articles in journals*

- (68) 2024, “With no siblings, but with a home”: Single Patent-code Inventions (SPIs) and regional technological diversification”, *Economics of Innovation and New Technology* (forthcoming), <https://doi.org/10.1080/10438599.2024.2315066>; with Claudio Cozza, Alessandro Palma, and Gianluca Tarasconi.
- (67) 2024, “The global network of product-embodied R&D flows: have national boundaries really faded away?”, *Structural Change and Economic Dynamics*, 68, 43-61, <https://doi.org/10.1016/j.strueco.2023.10.001>; with Fabrizio Fusillo and Giuseppe Vittucci Marzetti.
- (66) 2023, “Regional technological diversification and the global network of embodied R&D: Evidence from the exposure of European regions”, *Regional Studies*, <https://doi.org/10.1080/00343404.2023.2269205> (forthcoming); with Fabrizio Fusillo, Chiara Burlina and Alessandro Palma.
- (65) 2023, “Firms’ eco-innovations and I4.0 technologies in urban and rural areas”, *Regional Studies*, <https://doi.org/10.1080/00343404.2023.2243984>, with Luca Cattani and Antonio Vezzani.
- (64) 2023, “Digital technologies and eco-innovation. Evidence of the twin transition from Italian firms”, *Industry and Innovation*; 30(7), 766-800 <https://doi.org/10.1080/13662716.2023.2213179>; with Antonio Vezzani.

- (63) 2023, “Firms and innovation in the new industrial paradigm of the digital transformation”, *Industry and Innovation*, 30(1), 1-16, <https://doi.org/10.1080/13662716.2022.2161875>; with Elena Cefis, Riccardo Leoncini, and Luigi Marengo.
- (62) 2023, “Regional artificial intelligence and the geography of environmental technologies: Does local AI knowledge help regional green-tech specialisation?”, *Regional Studies*, 57(2), 330-343, <https://doi.org/10.1080/00343404.2022.2092610>; with Gloria Cicerone, Alessandra Faggian, and Francesco Rentocchini.
- (61) 2023, “Technological novelty and Key Enabling Technologies: Evidence from European regions”, *Economics of Innovation and New Technology*, 32:6, 851-872 <https://doi.org/10.1080/10438599.2022.2038147>; with Gianluca Orsatti and Francesco Quatraro.
- (60) 2022, “Greenfield foreign direct investments and regional environmental technologies”, *Research Policy*, 51:1, 104405 <https://doi.org/10.1016/j.respol.2021.104405>; with Davide Castellani, Giovanni Marin, and Antonello Zanfei.
- (59) 2022, “External financing of innovative small-medium-enterprises (SMEs): unpacking bank credit with respect to innovation typologies and combinations”, *Industrial and Corporate Change*, 31(1), 234-267 (<https://doi.org/10.1093/icc/dtab063>); with Tullio Gregori and Stefania Sonia Patrizia Rossi.
- (58) 2022, “The pro-export effect of sub-national migration networks: New evidence from Spanish provinces”, *Review of World Economics*, 158, 53–107 (2022), <https://doi.org/10.1007/s10290-021-00423-4>; with Anna D’Ambrosio.
- (57) 2022, “Financial constraints to investing in intangibles: Do innovative and non-innovative firms differ?”, *Journal of Technology Transfer*, 47, 1–32; DOI: 10.1007/s10961-020-09842-1; with Antonio Vezzani;
- (56) 2021, “Mobility in times of pandemics: evidence on the spread of Covid19 in Italy’s labour market areas”, *Structural Change and Economic Dynamics*, 58, 444-454, DOI: <https://doi.org/10.1016/j.strueco.2021.06.016>; with Andrea Ascani, Alessandra Faggian, and Alessandro Palma.
- (55) 2021, “On the territorial embeddedness of the fourth industrial revolution: a literature review about how Industry 4.0 meets industrial districts ”, *Scienze Regionali – Italian Journal of Regional Science*, with Chiara Burlina.
- (54) 2021, “Going beyond relatedness: regional diversification trajectories and Key Enabling Technologies (KETs) in Italian regions”, *Economic Geography*, 97:2, 187-207, DOI: 10.1080/00130095.2021.1920390; with Roberto Antonietti.
- (53) 2021, “Design and environmental technologies: Does “green-matching” actually help?” *Research Policy*, Volume 50:5, 104208, DOI: 10.1016/j.respol.2021.104208; with Claudia Ghisetti and Antonio Vezzani;
- (52) 2021, “Innovation persistence in times of crisis: evidence from Italian firms”, *Small Business Economics*, 56, 1739–1764, DOI: 10.1007/s11187-019-00231-z; with Davide Antonioli;
- (51) 2021, “The geography of COVID-19 and the structure of local economies: the case of Italy”, *Journal of Regional Science*, 61:2, 407–441, DOI: 10.1111/jors.12510; with Andrea Ascani and Alessandra Faggian;

- (50) 2020, “Design centrality, design investments and innovation performance: an empirical analysis of European firms”, *Industrial and Corporate Change*, 29:2, 351–374, DOI: 10.1093/icc/dtz046; with Antonio Vezzani;
- (49) 2020, “On the adoption of circular economy practices by Small and Medium-size Enterprises (SMEs). Does “financing-as-usual” still matter?”, *Journal of Evolutionary Economics*, 30, 559–586, DOI: 10.1007/s00191-019-00651-w; with Claudia Ghisetti;
- (48) 2020, “Green technologies and smart specialisation: a European patent-based analysis of the intertwining of technological relatedness and Key Enabling Technologies”, *Regional Studies*, 54:10, 1354-1365, DOI: 10.1080/00343404.2019.1648784; with Francesco Quatraro;
- (47) 2019, “A new approach to migrations: Communities-on-the-move as assets”, *Regional Studies*, 53:1, 1-5, DOI: 10.1080/00343404.2018.1536821; with Mario Davide Parrilli and Michaela Trippi;
- (46) 2019, “Migration, communities-on-the-move and international innovation networks: An empirical analysis of Spanish regions”, *Regional Studies*, 53:1, 6-16, DOI: 10.1080/00343404.2018.1426850; with Anna D’Ambrosio, Mario Davide Parrilli, and Francesco Quatraro;
- (45) 2019, “Better late than never: the interplay between green technology and age for firm growth”, *Small Business Economics*, 52, 891–904, DOI: 10.1007/s11187-017-9939-6; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo;
- (44) 2019, “Design and eco-innovation: micro-evidence from the Eurobarometer survey”, *Industry and Innovation*, 26:10, 1208-1241, DOI: 10.1080/13662716.2018.1549475), with Claudia Ghisetti;
- (43) 2018, “Innovation in tourism: a diverging line of research in need of a synthesis”, *Tourism Economics*, 24:7, 765–780;
- (42) 2017, “Regional branching and Key Enabling Technologies. Evidence from European patent data”, *Economic Geography*, 4, 367-396; with Francesco Quatraro;
- (41) 2017, “Forms of knowledge and eco-innovation modes. Evidence from Spanish manufacturing firms”, *Ecological Economics*, 131, 208-221; with Alberto Marzucchi;
- (40) 2017, “Multinationality, R&D and productivity: Evidence from the top R&D investors worldwide”, *International Business Review*, 26, 405–416; with Davide Castellani, Torben Schubert and Antonio Vezzani;
- (39) 2016, “CO2-reducing innovations and outsourcing: evidence from photovoltaics and green construction in North-East Italy”, *Research Policy*, Vol. 45, n.8, 1649–1659; with Riccardo Leoncini and Francesco Rentocchini;
- (38) 2016, “Intangible investments and innovation propensity. Evidence from the Innobarometer 2013”, *Industry and Innovation*, Vol. 23, n.4, pp. 331-352; with Antonio Vezzani;
- (37) 2016, “Financing constraints, R&D investments and innovative performances: new empirical evidence at the firm level for Europe”, *Economics of Innovation and New Technology*, Vol.25, n.3, pp. 183-196; with Bronwyn H. Hall, Pietro Moncada-Paternò-Castello and Antonio Vezzani;
- (36) 2015, “Industry-research cooperation within and across regional boundaries. What does innovation policy add?”, *Papers in Regional Science*, Vol.94, n. 3, pp. 499-525; with Alberto Marzucchi and Davide Antonioli;

- (35) 2015, “Do KIBS make manufacturing more innovative? An empirical investigation of four European countries”, *Technological Forecasting and Social Change*, n.95, pp. 131–151; with Daria Ciriaci and Daniela Palma;
- (34) 2015, “The open eco-innovation mode. An empirical investigation of eleven European countries”, *Research Policy*, Vol. 44, n. 4, pp. 1080-1093; with Claudia Ghisetti and Alberto Marzucchi;
- (33) 2015, “On the R&D giants’ shoulders: do FDI help to stand on them?”, *Economia e Politica Industriale - Journal of Industrial and Business Economics (JIBE)*, Vol. 42, n.1, pp. 33-60; with Antonio Vezzani;
- (32) 2015, “The production function of top R&D investors: Accounting for size and sector heterogeneity with quantile estimations”, *Research Policy*, Vol. 44, n.2, pp. 381-393; with Antonio Vezzani;
- (31) 2015, “Outsourcing and firm productivity in a specific local production system. Evidence from Reggio Emilia (Italy)”, *Growth & Change*, Vol. 46, n.2, pp. 292–320, with Davide Antonioli, Massimiliano Mazzanti and Paolo Pini;
- (30) 2014, “Absorptive capacity, proximity in cooperation and integration mechanisms”. Empirical evidence from CIS data”, *Industry and Innovation*, Vol. 21, n.4, pp. 332-357; with Chiara Franco and Alberto Marzucchi;
- (29) 2014, “Regional innovation policy and innovative behaviour: Looking for additional effects”, *European Planning Studies*, Vol. 22, n.1, pp. 64-83; with Alberto Marzucchi and Davide Antonioli;
- (28) 2014, “Spatial agglomeration and firm exit: a spatial dynamic analysis for Italian provinces”, *Small Business Economics*, Vol. 43, pp. 213–228; with Giulio Cainelli and Giuseppe Vittucci Marzetti;
- (27) 2013, “Innovation strategies and economic crisis: evidence from firm-level Italian data”, *Economia Politica, Journal of Analytical and Institutional Economics*, Vol. XXX, n.1, pp. 33-67; with Davide Antonioli, Annaflavia Bianchi, Massimiliano Mazzanti and Paolo Pini;
- (26) 2012, “Environmental innovations, local networks and internationalization”, *Industry and Innovation*, Vol. 19, n.8, pp. 697-734; with Giulio Cainelli and Massimiliano Mazzanti [Winner of the Industry and Innovation Award for the Best Paper 2013-2014];
- (25) 2012, “Production and financial linkages in inter-firm networks: structural variety, risk-sharing and resilience”, *Journal of Evolutionary Economics*, Vol. 22, pp. 711-734; with Giulio Cainelli and Giuseppe Vittucci Marzetti;
- (24) 2011, “On indirect trade-related R&D spillovers: the “Average Propagation Length” of foreign R&D”, *Structural Change and Economic Dynamics*; Vol. 22, pp. 227-237; with Chiara Franco and Giuseppe Vittucci Marzetti;
- (23) 2011, “Outsourcing, delocalization and firm organization: transaction costs vs. industrial relations in a local production system of Emilia Romagna”, *Entrepreneurship and Regional Development*, Vol. 23, n.7-8, pp. 419-447; with Massimiliano Mazzanti and Paolo Pini;
- (22) 2011, “The deindustrialisation/tertiarisation hypothesis reconsidered: a subsystem application to the OECD”, *Cambridge Journal of Economics*, Vol. 35, n.2, pp. 401–421 with Giuseppe Vittucci Marzetti;



- (21) 2011, “Economia Politica” over the last 25 years, and more: a snapshot of contents and scholars”, *Economia Politica, Journal of Analytical and Institutional Economics*, Vol. XXVIII, n.1, pp. 125-157; with Nicola Grassano and Paolo Pini;
- (20) 2010, “Outsourcing and structural change. Application to a set of OECD countries”, *International Review of Applied Economics*, Vol. 24, n.6, pp. 731–756; with Giuseppe Vittucci Marzetti;
- (19) 2009, “New insights on innovation, industry and the nature of the firm: Introduction and assessment”, *Economia Politica, Journal of Analytical and Institutional Economics*, Vol. XXVI, n.3, pp.419-426;
- (18) 2009, “Applying social network analysis to input-output based innovation matrices: An illustrative application to six oecd technological systems for the middle 1990s”, *Economic Systems Research*, Vol.21, n.2, pp.129-149; with Giuseppe Vittucci Marzetti;
- (17) 2009, “What drives (or hampers) outsourcing? Evidence for a local production system in Emilia Romagna”, *Industry and Innovation*; Vol.16, n.3, pp.331–365; with Massimiliano Mazzanti and Paolo Pini;
- (16) 2008, “Innovation clusters in technological systems: a network analysis of 15 OECD countries for the middle ’90s”, *Industry and Innovation*, Vol.15, n.3, pp.321-347; with Giuseppe Vittucci Marzetti; [Nominated for the DRUID Conference Award for Best Paper 2007];
- (15) 2008, “Technological change and the vertical organization of industries”, *Journal of Evolutionary Economics*, Vol.18, n.3-4, pp.367-387; with Tommaso Ciarli, Riccardo Leoncini and Marco Valente;
- (14) 2007, “Outsourcing and innovation: evidence for a local production system of Emilia-Romagna”, *Innovation, Management, Policy and Practice (now Innovation, Organization & Management)*, Vol.9, n.3-4, pp.324-342; with Massimiliano Mazzanti and Paolo Pini;
- (13) 2007, “Innovation and competition in complex environments”, *Innovation, Management, Policy and Practice (now Innovation, Organization & Management)*, Vol.9, n.3-4, pp.292-310; with Tommaso Ciarli, Riccardo Leoncini and Marco Valente;
- (12) 2007, “Outsourcing and transaction costs in “real” time and space: evidence for a province of Emilia-Romagna”, *Journal of Industrial Economics (ICFAI)*, Vol.IV, n.3, pp.7-22; with Massimiliano Mazzanti and Paolo Pini;
- (11) 2007, “Outsourcing and structural change. What can input-output analysis say about it?”, *Economia Politica, Journal of Analytical and Institutional Economics*, Vol. XXIV, n.1, pp.43-78; with Giuseppe Vittucci Marzetti;
- (10) 2006, “Dynamic capabilities between firm organization and local development: a critical survey”, *Economia Politica, Journal of Analytical and Institutional Economics*, Vol. XXIII, n.3, pp.475-502; with Riccardo Leoncini and Giovanna Vertova;
- (9) 2005, “Accounting for core and extra-core relationships in technological systems: a methodological proposal”, *Research Policy*, Vol.34, pp.83-100; with Riccardo Leoncini;
- (8) 2004, “Resources, capabilities, competences and the theory of the firm”, *Journal of Economic Studies*, Vol.31, n.5, pp.409-434;
- (7) 2004, “Modelling the firm from a system perspective: some methodological insights”, *Institutions and Economic Development*, n.1, pp.105-140; with Alessandro Romagnoli;
- (6) 2001, “The automobile technological systems. An empirical analysis of four European countries”, *Research Policy*, Vol.30, n.8, pp.1321-1340; with Riccardo Leoncini;

- (5) 2001, “Techno-globalism, techno-nationalism and technological systems: organizing the evidence”, *Technovation*, Vol.21, n.7, pp.399-412;
- (4) 2000, “Network analysis of eight technological systems”, *International Review of Applied Economics*, Vol.14, n.2, pp.213-234; with Riccardo Leoncini;
- (3) 2000, “International co-operation and local development”, *Economia Politica, Journal of Analytical and Institutional Economics*, Vol.XVII, n.1, pp.5-20; with Gilberto Antonelli;
- (2) 1999, “Sixteen Years of "Economia Politica". An Analysis from 1984 to 1999”, *Economia politica, Journal of Analytical and Institutional Economics*, 3, 299-418.
- (1) 1996, “Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany”, *Research Policy*, n.25, pp.415-430; with Riccardo Leoncini and Mario Agostino Maggioni.

#### *Chapters in Volumes*

- (12) 2023, “Innovative Foreign Direct Investments and the knowledge sources for green and digital inventions: A patent-based analysis”; in Jong Min Lee, Eduardo Ibarra-Olivo, Katuscia Lavoratori, and Arthur Li (eds.), *Contemporary Issues in International Business: Inequality, Geography, and Global Value Chains*, Palgrave MacMillan, <https://doi.org/10.1007/978-3-031-24090-4>, pp. 161-188; with Michela Bello, Davide Castellani, Giacomo Damioli, and Giovanni Marin.
- (11) 2019, “On the support of regional policy to firm innovation: the experience of the Emilia-Romagna region (Italy)”, in Koschatzky K. and Stahlecker T. (eds.), *Innovation based Regional Change in Europe: Chances, Risks and Policy Implications*, Fraunhofer Verlag, ISBN10: 3839614201, 145-174; with Davide Antonioli.
- (10) 2015, “The multi-dimensional additionality of innovation policies. A multi-level application to Italy and Spain”, in Crespi, F. and Quatraro, F. (eds.), *The Economics of Knowledge, Innovation and Systemic Technology Policy*, Routledge, ISBN 9780367668822, pp. 239-270; with Alberto Marzucchi.
- (9) 2013, “Production and financial linkages in inter-firm networks: structural variety, risk-sharing and resilience” in Pyka, A. and Andersen, E.S. (eds.), *Long Term Economic Development – Demand, Finance, Organization, Policy and Innovation in a Schumpeterian Perspective*, Springer, pp. 113-136; with Giulio Cainelli and Giuseppe Vittucci Marzetti;
- (8) 2012, “Industrial districts in front of the financial crisis. Network structure, variety, risk sharing and resilience”, in Dallago, B. and Guglielmetti, C. (eds.), *The Consequences of the International Crisis on SMEs, Vulnerability and Resilience*, Routledge, pp. 201-221; with Giulio Cainelli and Giuseppe Vittucci Marzetti;
- (7) 2010, “Does outsourcing increase labour productivity? Evidence for a local production system in Emilia Romagna (Italy)”, in Dallago, B. and Guglielmetti, C. (eds.), *Local Economies and Global Competitiveness*, Palgrave, pp. 257-279; with Davide Antonioli, Massimiliano Mazzanti and Paolo Pini;
- (6) 2010, “Linking technological change to organizational dynamics: some insights from a quasi-NK model”, in De Liso, N. and Leoncini, R. (eds.), *Internationalization, Technological Change and the Theory of the Firm*, Routledge, pp. 89-118; with Tommaso Ciarli, Riccardo Leoncini and Marco Valente;

- (5) 2010, “Product architecture and firm organization. The role of interfaces”, in Ahrweiler P. (ed.), *Innovation in Complex Social Systems*, Routledge, pp.264-276; with Tommaso Ciarli, Riccardo Leoncini and Marco Valente;
- (4) 2009, “The general profile of the outsourcing firm: evidence for a local production system of Emilia Romagna”, in Morroni, M. (ed.), *Corporate Governance, Organization and the Firm: Co-operation and Outsourcing in a Globalised Market*, Edward Elgar, pp.208-245; with Massimiliano Mazzanti and Paolo Pini;
- (3) 2008, “Learning and firm dynamics: theoretical approaches and empirical analysis of dynamic capabilities”, in Leoncini R. and Montresor S. (eds.), *Dynamic Capabilities between Firm Organization and Local Systems of Production*, Routledge, pp. 17-72; with Riccardo Leoncini;
- (2) 2000, “Classifying technological systems: an empirical application to eight OECD countries”, in Saviotti P.P. and Nooteboom B. (eds.), *Technology and Knowledge: from the Firm to Innovation Systems*, Edward Elgar, pp.152-173; with Riccardo Leoncini;
- (1) 1999, “Theoretical models and empirical evidence in dealing with worksharing”, in Jossa, B. and Vinci, S. (eds.), *Sviluppo, Investimenti e Occupazione nel Quadro dell’Integrazione Europea*, Edizioni Scientifiche Italiane, pp.189-219; with Maria Semitiel Garcia.

*Work-in-progress (drafted mimeos, working papers, papers under review or submitted/resubmitted)*

- [14] 2023, “On the geography of New Green-Tech-Based firms (NGTBF): the role of “green demand” across EU28 regions”, with Francesco Lelli and Francesco Rentocchini (under review at *Entrepreneurship & Regional Development*).
- [13] 2023, “Regional research infrastructures and young researchers’ productivity”, with Michele Pezzoni, Francesco Rentocchini, Leonardo Vargiu, and Fabiana Visentin (drafted mimeo).
- [12] 2023, “Moneytalks: the role of (geographical and digital) proximity in the VC financing of green startups”, with Davide Consoli, Francesco Lelli, François Perruchas, and Francesco Rentocchini (drafted mimeo).
- [11] 2023, “Regional knowledge bases and the twin transition: mapping the distance between green and digital technologies”, with Stefano Basilico and Alberto Marzucchi (drafted mimeo).
- [10] 2023, “Cap-and-trade policies and regional environmental innovation: evidence from the EU Emissions Trading System (EU ETS)”; with Tim Becker and Sebastian Losacker (drafted mimeo).
- [9] 2023, “Regional green-tech diversification and inter-regional green knowledge flows: EU evidence”; with Adelia Fatikhova and Fabrizio Fusillo (drafted mimeo).
- [8] 2023, “Does environmental innovation scale up with urbanisation? Evidence from functional urban areas across OECD countries”; with Gloria Cicerone, Sebastian Losacker, and Francesco Rentocchini (drafted mimeo).
- [7] 2023, “Regional innovations in the circular economy: OECD evidence”; with Gloria Cicerone, Sebastian Losacker, and Francesco Rentocchini (drafted mimeo).

[6] 2023, “Walking the green line: government sponsored R&D and clean technologies”; with Francesco Rentocchini and Antonio Vezzani ([SSRN Working Paper](#)).

[5] 2023, “Knowledge sources for Industry 4.0 technologies in European regions: the role of inward FDIs”; with Michela Bello, Davide Castellani, Giacomo Damioli, and Giovanni Marin (to be revised and re-submitted to Industry and Innovation).

[4] 2023, “Innovation and data analytics within firms: the role of high-involvement organisational practices”; with Luca Cattani, Chiara Franco, and Fabio Landini (under review at Industrial and Corporate Change).

[3] 2022, “Social capital and regional innovation in the aftermath of crisis: Evidence from Italian provinces”; with Alessandra Faggian and Marianna Marino (drafted mimeo);

[2] 2022, “Do migrants move along the routes of technological proximity? Evidence from Spanish NUTS3 regions”; with Anna D’Ambrosio, Chiara Franco, and Francesco Quatraro (drafted mimeo).

[1] 2021, “Proximities and access to Venture Capital: evidence from Italian innovative start-ups”; with Francesca Ghinami (under review at Economics of Innovation and New Technologies).

#### *Reports and policy brief*

(6) 2023, “The geography of EU green and digital inventions and their knowledge sources”, Publications Office of the European Union, Luxembourg, 2023, doi:10.2760/669328, JRC133565; with Michela Bello, Davide Castellani, Giacomo Damioli, and Giovanni Marin.

(5) 2023, “The role of inward innovative foreign direct investments in the acquisition of foreign knowledge: the case of EU green and digital inventions”, Publications Office of the European Union, Luxembourg, 2023, doi:10.2760/387171, JRC133591”; with Michela Bello, Davide Castellani, Giacomo Damioli, and Giovanni Marin.

(4) 2014, “How do companies “perceive” their intangibles? New statistical evidence from the Innobarometer 2013”; Technical Report, February 2014 IRI-IPTS, European Commission; with Giulio Perani and Antonio Vezzani;

(3) 2014, “The patenting activity of the top IRI Scoreboard Companies: an introductory note”; Technical Report, January 2014 IRI-IPTS, European Commission; with Antonio Vezzani, Fabio Montobbio, and Gianluca Tarasconi;

(2) 2014, “Financing R&D and Innovation for Corporate Growth. What new evidence should policymakers know?”; Policy Brief, January 2014, IRI-IPTS, European Commission; with Pietro Moncada-Paterno-Castello, Antonio Vezzani, and Fernando Hervas;

(1) 2013, “The green impact of the open innovation mode. Bridging knowledge sourcing and absorptive capacity for environmental innovations”; Policy Brief, August 2013, IRI-IPTS, European Commission; with Claudia Ghisetti and Alberto Marzucchi.

## *Publications in Italian*

### *Books and Textbooks*

- (3) 2011, *Un'Indagine sulle Imprese Manifatturiere dell'Emilia-Romagna: Strategie di Innovazione e Risultati Economici* (eds.), Milan, Franco Angeli; with Davide Antonioli, Annaflavia Bianchi, Massimiliano Mazzanti, and Paolo Pini;
- (2) 2009, *Economia* (Third Edition), Giappichelli; with Gilberto Antonelli, Giulio Cainelli, Nicola De Liso and Riccardo Leoncini;
- (1) 2013, *Economia: Quesiti* (Third Edition), Giappichelli; with Stefano D'Addona and Nicola Grassano.

### *Articles in Italian journals*

- (6) 2016, "Tecnologie abilitanti fondamentali" e "strategie di specializzazione intelligente". Un'analisi regionale sulla base di brevetti Europei, *Scienze Regionali*, Fascicolo 3, pag. 47-65, with Anna D'Ambrosio and Francesco Quatraro.
- (5) 2001, "Struttura produttiva e processo innovativo: un'analisi intersettoriale del sistema tecnologico italiano", *Rivista Italiana degli Economisti* (now *Italian Economic Journal*), Vol.VI, n.2, pp.169-206; with Riccardo Leoncini;
- (4) 1997, "Una nozione allargata di sistema tecnologico: aspetti teorici e metodologici per un'applicazione empirica comparata", *Economia & Lavoro*, Vol.XXXI, n.3-4, pp. 225-242; with Riccardo Leoncini;
- (3) 1997, "Flussi innovativi intersettoriali e sistemi tecnologici: metodologie reticolari per un confronto Italia - Germania", *Rivista di Politica Economica*, Vol.LXXXVII, n.3, pp.3-54; with Riccardo Leoncini and Mario Agostino Maggioni;
- (2) 1996, "Flussi innovativi e flussi produttivi intersettoriali: i sistemi nazionali di innovazione in un'ottica input-output", *Economia Politica*, Vol.XIII, n.2, pp.159-196;
- (1) 1994, "Un'analisi input-output dei sistemi nazionali di innovazione italiano e tedesco", (1994), *L'Industria*, Vol.XV, n.3, pp. 457-502.

### *Chapters in Italian Volumes*

- (5) 2006, "Le teorie dell'impresa basate su risorse, capabilities e competenze", in Cainelli, G. and De Liso, N. (eds.), *Organizzazioni, Conoscenze e Sistemi Locali*, Franco Angeli, pp.45-79;
- (4) 2005, "Le capabilities dinamiche: organizzazione di cluster o cluster organizzativi?", in Lopes, A., Lorizio, M. and Reganati, F. (eds.), *Istituzioni e Imprese nello Sviluppo Locale*, Carocci, pp. 41-70; with Riccardo Leoncini;

(3) 2005, “Patto di stabilità e di crescita e politica economica nella Costituzione Europea”, in Zanobetti, A. (ed), La Costituzione Europea: una Riflessione Interdisciplinare, Giappichelli, pp. 159-175;

(2) 2002, “Le risorse umane”, in Quadrio Curzio, A., Fortis, M., Galli G. (eds.), La Competitività dell’Italia: Ricerca del Centro Studi Confindustria; Vol.1, Scienza, Ricerca, Innovazione, Il Sole 24 Ore, pp. 85-124; with Gilberto Antonelli;

(1) 1999, “Dinamica della struttura produttiva e specializzazione internazionale”, (1999), in IDSE-CNR (I° Rapporto sul Cambiamento Strutturale dell’Economia Italiana), Trasformazioni Strutturali dei Sistemi Locali di Produzione e Competitività Internazionale, Franco Angeli, pp.129-182.

## **RESEARCH PROJECTS**

- 2023 – at present: HORIZON-RIA Project on “Strategies for just and equitable transitions in Europe” (ST4TE)

>> Member of the GSSI unit in the research network.

- 2023 – at present: 2-year National Research Project (PRIN2022) on “The geography of the “twin transition”: mapping the regional combination of the green and the digital transition” (GEOTWIN)

>> Principal Investigator of the National Project.

- 2022 – at present: 3-year PNRR Research Project within the “PRO3 joint program of Italian Schools of Advanced Studies”, on “When green meets digital: understanding the “twin” transition in the economy and society (GREEN-DIGIT)”

>> Principal investigator for the GSSI unit in the research network.

- 2022 – at present: 3-year PNRR Research Project within the “Mission Education and Research” for the Creation of Innovation Ecosystems, on “Vitality – Ecosystem for Innovation, Digitalisation and Sustainability for a Diffused Economy”

>> Member of the GSSI unit in the research network.

- 2022 – at present: 3-year Doctoral Research Project on “The twin-transition geography: green & digital transitions across heterogeneous regions”, awarded upon peer-review selection within the National Doctoral Program in Sustainability and Climate Change (IUSS Pavia).

>> Supervisor of the selected Ph.D student.

- 2021 – at present: 4-year Research Project SICURA financed by the Italian Department of Economic Development for the creation of a Hub for Emerging Technologies based in L’Aquila.

>> Co-principal investigator for the GSSI unit in the research network.

- 2018 – 2021: 3-year International Research Project “I\_KNOW - Interregional Key Networking Open Innovation empowerment”, financed by the European Regional Development Fund:

>> Reference for the Kore University of Enna, as member of the Scientific Committee.

- 2011 – 2013, 3-year Research Project on Industrial Research and Innovation Analysis and Monitoring (IRIMA), financed by DG-RTD, European Commission;  
>> Coordinator of different Work-Packages for the IRI Action at JRC-IPTS.
- 2008 – 2012, 3(+1)-year International Research Project on “Public policies and local development: innovation policies and its effects on locally embedded global dynamics”, financed by the Italian Province of Trento as Bando Grandi Progetti 2006;  
>> Coordinator of the University of Bologna Research Unit.
- 2009 – 2010, 1-year International, Inter-University Cooperation Project for “International mobility of students and researchers within the MiDIC master”, co-financed by Italian Ministry of Education and Research in the financial year 2008;  
>> Coordinator for the University of Bologna.
- 2007 – 2009, 2-year National Research Project on “Emerging economic regional powers and local systems of production: new threats or new opportunities?”, co-funded by the Italian Ministry of Education and Research as PRIN 2007-2009;  
>> Member of the University of Bologna Research Unit (national coordination unit).
- 2005 – 2007, 2-year National Research Project on “Fragmentation and local development: interpretative models and economic policy scenarios”, co-funded by the Italian Ministry of Education and Research as PRIN 2005-2007;  
>> Member of the University of Bologna Research Unit (national coordination unit).
- 2003 – 2005, 2-year National Research Project on “Dynamic capabilities between firm organisation and local systems of production”, co-funded by the Italian Ministry of Education and Research as PRIN 2003-2005;  
>> Member of the University of Bologna Research Unit (national coordination unit).
- 2000 – 2002, 2-year National Research Project on “Infrastructures, Competitiveness and Governance Levels: Knowledge and Development of the New Economy”, co-funded by the Italian Ministry of Education and Research as PRIN 2000-2002;  
>> Member of the University of Bologna Research Unit (national coordination unit).
- 1999 – 2002, European Project Deeds IST-1999-29035, “Digital Economy: Policy Exchange and Development for SMEs”;  
>> External researcher.
- 1998 – 2000, European Project on “The impact of EU regulation on innovation of European industry: Regulation and innovation in the area of end-of-life vehicles, DG JRC-IPTS”, European Commission;  
>> Member of the IDSE-CNR Research Unit.

## **ASSESSMENT, PEER-REVIEWING, AND CONSULTANCY ACTIVITIES**

### *Assessment of projects and of academic activities*

- 2023, INNOVA MEASURE V project of the EC Joint Research Centre  
>> Expert contracted by the European Commission;
- 2017, Papers submitted for peer-review within the evaluation of research quality of Italian Universities (VQR 2011-2014);  
>> Reviewer appointed by the Italian Minister of University and Research (MIUR).

- 2015, Oslo Manual Survey on academic users of innovation data;  
>> Innovation expert identified on the basis of scientific record of publications.
- 2015 - at present, REPRISE: Register of Expert Peer Reviewers for Italian Scientific Evaluation;  
>> Reviewer appointed by the Italian Minister of University and Research (MIUR).
- 2005-2011, “Progetti di Ricerca di Interesse Nazionale (PRIN)”;  
>> Reviewer appointed (in specific years) by the Italian Minister of University and Research (MIUR).
- 2000 - at present, papers submitted to the conferences of the following associations:
  - Danish Research Units of Industrial Dynamics (DRUID);
  - International Joseph A. Schumpeter Society (ISI);
  - European Network on the Economics of the Firm (ENEF);
  - Italian Association of Italian Economists (Società Italiana di Economia, SIE);
 >> Reviewer appointed (in specific years) by the relative associations.

#### *Reviewers (for the following journals)*

Research Policy (Certificate of Outstanding Contribution in Reviewing, March, 2017);

Business, Strategy and the Environment; China Economic Review; Economics of Innovation and New Technology; Industrial and Corporate Change; Journal of Environmental Planning and Management; Journal of International Business Studies; Journal of Management Studies; Journal of Evolutionary Economics; Journal of Product Innovation Management; Papers in Regional Science; Regional Studies;; Structural Change and Economic Dynamics; Technology Analysis and Strategic Management; Technological Forecasting and Social Change; Statistica Quarterly Journal; Economia Politica – Journal of Analytical and Institutional Economics; Economic Systems Research; Empirical Economics; Industry and Innovation; Italian Economic Journal (continuation of Rivista Italiana degli Economisti and Giornale degli Economisti);

#### *Consultancies*

- 2007-2010, Ex-ante and ex-post evaluation of innovation projects proposed by the local municipalities of the Emilia-Romagna region (Italy) for the development of its mountain areas (“Appennino Bolognese”);  
>> Organisation: School of Development Innovation and Change (SDIC, Bologna, Italy).
- 2006-2007, Preparation of a report on the competitiveness factors and on the development strategy of the Italian province of Ravenna;  
>> Organisation: Nomisma Research Institute (Bologna, Italy).
- 2004-2005, Experimentation and evaluation of the access to the micro-data of the National Italian Statistical Office (ISTAT): Micro-data Lab Adele;  
>> Organisation: Commission for the Quality of Statistical Information; Italian Government (Council of Ministers).



*Commissions for recruitment (of the following positions)*

- Associate Professor (13A4, SECS-P/06, Applied Economics); University Catholic of Milan. Decreto Rettoriale n. 10240 del 24 luglio 2023;
- Tenure Track Assistant Professor (13/A4, SECS-P06 Applied Economics); Gran Sasso Science Institute (GSSI). D.R. n. 60, 2023.
- Full Professor (13A4, SECS-P/06, Applied Economics); University of Sassari (IT). Decreto Rettoriale 4393 2021;
- Assistant Professor (13A4, SECS-P/06, Applied Economics); Gran Sasso Science Institute (GSSI). D.R. 93/2021.
- Tenure Track Assistant Professor (13/A4, SECS-P06 Applied Economics); Gran Sasso Science Institute (GSSI). D.R. n. 91, 2021.
- Tenure Track Assistant Professor (13/A4, SECS-P06 Applied Economics); Gran Sasso Science Institute (GSSI). D.R. n. 72, 2019.
- Full Professor (13A2, SECS-P/02, Economic Policy); University of Roma Tre (IT). Decreto Rettoriale 17 July 2018;
- Assistant Professor (A.T.2: Applied Economics, Innovation and Complex Systems); Area Science Park (Italian Public Research Institute), Trieste (IT). Bando n. 8/2016 A.T. 2 (Decreto Ministeriale 105, 26 February 2016);
- Associate Professor (13A2, SECS-P/02, Economic Policy); University of Padua (IT). Decreto Rettoriale n. 2032, 24 June 2015;
- Associate Professor (13A2, SECS-P/02, Economic Policy); University of Turin (IT). Decreto Rettoriale n. 1889, 25 May 2015;
- Assistant Professor (13A1, SECS-P/01, Economics); University of Catania (IT). Decreto Rettoriale. n. 1898, 05 May 2014.

**CONFERENCES, WORKSHOPS AND SEMINARS**

*Invited speeches and lectures*

- 31 October 2023, Workshop on “Creation of shared value in the territories: research, innovation and sustainability” within the 100 Anniversary of the National Research Council of Italy (CNR), L’Aquila.  
>> Invited speech on “Emerging Digital Technologies and Environmental Sustainability: businesses and territories”.
- 23 May 2023, University of Bologna Workshop on “The Use of Patents in Economic Research”.  
>> Invited speech on “Regional green-tech diversification and inter-regional green knowledge flows”.

- 28 April 2022, RSA Cities, Regions and Sustainability Transitions (CReST) (virtual event).  
>> Invited speech on “The geography of green and digital technologies: what’s beyond relatedness?”
  
- 23 November 2021, Workshop on “Assessing regional competences and inter-regional collaborations in research and innovation”, Polytechnic University of Le Marche (Ancona)  
>> Invited speech on ““With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification”
  
- 18 December 2020, SEEDS Annual Workshop (virtual event);  
>> Invited speech on: “Regional artificial intelligence and the geography of environmental technologies: Does the digital transformation meet the green transition?”
  
- 10 October 2019: OECD, Spatial productivity for regional and local development, - 5th meeting, Fondazione Venezia, Venice (Italy);  
>> Invited speech on: “Migration, communities on the move and international innovation networks: Evidence from Spanish regions”.
  
- 7 June 2019: International Workshop on the “The Impact of Industry 4.0 on Employment, Global Value Chains and Sustainable Development”, Saint Jean d’Angely Campus, Université Côte d’Azur (France);  
>> Invited speech on: “Green regional development in times of Industry 4.0: The role of KETS and MNEs”.
  
- 10 October 2018: Kick-off meeting of the International Project “I\_KNOW, - Interregional Key Networking Open Innovation empowerment”, University Kore of Enna (Italy);  
>> Invited roundtable speech on: “Open Innovation approach, sectors environmental, sustainability and the quality of life and human health, best practices and success cases start-up”.
  
- 20 – 21 September 2018: Research Workshop on “The Geography of Innovation, Environment and Resilience”, University of Turin (Italy);  
>> Invited speech on: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”.
  
- 8 September 2018: Summer School on: “Innovation, Institutional Change and Intellectual Property Rights”, University of Bologna (Italy);  
>> Invited roundtable speeches on: “Theories and Facts Supporting Industrial and Innovation Policies”; “Varied perceptions of innovation and IPR at the firm level”
  
- 15 March 2018: Workshop on: “Smart Specialization Strategy: Measuring S3, theory and practice”, Polytechnic University delle Marche, Ancona (Italy);  
>> Invited speech on: “Green technologies and S3: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies (KETs)”.
  
- 25 October 2017: 9th IRIMA Workshop on: “Intangible investments for competitiveness: micro-macro evidences”, European Commission, Bruxelles;  
>> Invited speech on: “Intangibles and innovation across the EC Innobarometers: methodological issues and empirical evidence”.
  
- 6 October 2017: Inaugural Workshop of the Global Studies International PhD Program, University of Urbino, Carlo Bo’ (Italy);  
>> Invited commentary on: “Innovation between firms and locations”.

- 11 November 2016: II International Workshop of Kore Business & Economics (KoreBE) on “Local resources for tourism: from impact to growth”, Kore University of Enna (Italy);  
>> Final key-note speech on: “Innovation as a resource for tourism”.
- 10-12 July 2015: International Summer School on Knowledge Dynamics, Industry Evolution, and Economic Development - KID 2014, CNRS, Nice (France);  
>> Invited lecture on: “R&D and innovation modes: new micro-evidences and policy implications at the European level.”
- 5 March 2015: Inauguration of the Jean Monnet Chair in European Innovation Policy, University of Basilicata, Potenza (Italy);  
>> Invited key-note speech on: “R&D and innovation modes: new micro-evidences and policy implications at the European level”.
- 10 December 2013: II IRIMA Workshop on “Counting (and accounting) R&D and non-R&D intangibles, drivers of firm’s innovation and growth”, European Commission, Bruxelles (Belgium);  
>> Invited speech on: “The Innobarometer 2013: Investing in Intangibles”.
- 14 – 15 June 2012: IPTS Steering Workshop on “Industrial Research and Innovation”, JRC-IPTS, European Commission, Seville (Spain);  
>> Invited speech on: “Technological profile and innovation patterns of European top R&D investors”.
- 16 – 17 April 2012: Workshop for inaugurating the Academic Year 2011-2012 of the International Master in Development, Innovation and Change (MiDIC), University of Bologna (Italy);  
>> Invited-speech on: “Corporate R&D and Innovation in Europe”.
- 22 – 23 October 2004: 45th Annual Meeting of the Italian Economists Society (Società Italiana degli Economisti SIE), University of Bologna (IT);  
>> Invited speech on: “Learning and firm dynamics” (with Riccardo Leoncini).
- 16-17 December 2002: Workshop of the EC Project DEEDS “Digital Economy: Policy Exchanges and Development for SMEs” (DEEDS), Bruxelles (BE).  
>> Invited speech on: “The Resorce-Capability-Competence approach: towards a system view of the firm” (with Alessandro Romagnoli).

#### *Invited seminars*

- 30 January 2024: Seminar series Collegio Carlo Alberto and University of Turin (Italy);  
Paper presented: “Green-tech transition beyond regional borders: the role of embodied green knowledge flows”, with Adelia Fatikhova and Fabrizio Fusillo.
- 1 December 2023: Seminars on Environmental Economics and Policy, The University of Ferrara (IT);  
Paper presented: “Firms’ eco-innovations and I4.0 technologies in urban and rural areas”, with Luca Cattani and Antonio Vezzani.
- 21 November 2022: Seminar Series of the Manchester Institute of Innovation Research, The University of Manchester (UK);  
Paper presented: “Look where they are!” Firms’ eco-innovations and digital technologies in urban vs. rural areas”, with Luca Cattani and Antonio Vezzani.

- 10 March 2022: Seminar Series of the University of Trento, Department of Economics and Management, Trento (Italy);  
Paper presented: ““Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.
- 4 November 2021: Seminar Series, Collegio Carlo Alberto and University of Turin (Italy);  
Paper presented: “Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.
- 14 October 2019: Seminar Series, University Parthenope of Naples (Italy);  
Paper presented: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti;
- 27 August 2019: Lunch Seminar Series, TIK, University of Oslo (Norway);  
Paper presented: “Unlocking the green door of regional development: the role of MNEs in greening local inventive activities”, with Davide Castellani, Giovanni Marin, and Antonello Zanfei;
- 8 January 2019: Seminar Series in the Economics of Innovation and Knowledge, Department of Economics and Statistics University of Turin (Italy);  
Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms”, with Davide Antonioli;
- 20 December 2018: Seminar series of DEAMS Department of Economics, Business, Mathematics and Statistics, University of Trieste (Italy);  
Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms”, with Davide Antonioli;
- 3 December 2018: IRCRES-CNR, Italian National Research Council:  
Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms”, with Davide Antonioli;
- 6 June 2018: UNU-MERIT, Academic seminar series (Netherlands):  
Paper presented: “Green technologies and smart specialization: a European patent-based analysis of the intertwining of relatedness and Key-Enabling-Technologies”; with Francesco Quatraro.
- 1 March 2018: GREDEG, University of Nice, Sophia Antipolis (France);  
Paper presented: “Better late than never: the interplay between green technology and age for firm growth”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo.
- 22 November 2017: Seminar series of the Department of Economics and Management, University of Pavia (Italy);  
Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms (2005 - 2010)”, with Davide Antonioli;
- 19 December 2016: Seminar series of DEAMS Department of Economics, Business, Mathematics and Statistics, University of Trieste (Italy);  
Paper presented: “Better Late Than Never: a longitudinal quantile regression approach to the interplay of employment growth, green technology and age”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo.
- 30 November 2016: Spanish National Research Council, Institute of Public Goods and Policies (IPP), Madrid (Spain);

Paper presented: “Regional branching and Key-Enabling-Technologies (KETS): patent-based evidence for smart and sustainable specialisation strategies”, with Francesco Quatraro.

- 28 September 2016: European Commission, JRC – Directorate B - Growth and Innovation, B3 Unit: Territorial Development, Seville (Spain);

Paper presented: “Innovating successfully through design: Evidence from European companies”, with Antonio Vezzani.

- 20 September 2016: Kore Business and Economics Seminar Series, University Kore of Enna (Italy);

Paper presented: “Better Late Than Never: a longitudinal quantile regression approach to the interplay of employment growth, green technology and age”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo.

- 12 January 2016: Kore Business and Economics Seminar Series, University Kore of Enna (Italy);

Paper presented: “Design, innovation and firm performance. Evidence from the Innobarometer 2015”, with Antonio Vezzani.

- 12 November 2015: Seminar Series in the Economics of Innovation and Knowledge, Department of Economics and Statistics University of Turin (Italy);

Paper presented: “Forms of knowledge and eco-innovative modes. Evidence from Spanish manufacturing firms”, with Alberto Marzucchi.

- 4 November 2015: Kore Business and Economics Seminar Series, University Kore of Enna (Italy);

Paper presented: “Forms of knowledge and eco-innovative modes. Evidence from Spanish manufacturing firms”, with Alberto Marzucchi.

- 21 April 2015: Kore Business and Economics Seminar Series, University Kore of Enna (Italy);

Paper presented: “Key Enabling Technologies and Smart Specialization patterns. European evidence from patent data”, with Francesco Quatraro.

- 16 April 2015: Seminar series of the Department of Economics of the University of Trento; (Italy);

Paper presented: “Key Enabling Technologies and Smart Specialization patterns. European evidence from patent data”, with Francesco Quatraro.

- 25 February 2015: Seminar series of DEAMS Department of Economics, Business, Mathematics and Statistics, University of Trieste (Italy);

Paper presented: “Key Enabling Technologies and Smart Specialization patterns. European evidence from patent data”, with Francesco Quatraro.

- 3 December 2014: Seminar Series in the Economics of Innovation and Knowledge, Department of Economics and Statistics University of Turin (Italy);

Paper presented: “CO<sub>2</sub>-reducing innovations and outsourcing: evidence from two “green industries in North-East Italy”; with Riccardo Leoncini and Francesco Rentocchini;

- 21 November 2014: SEEDS Seminar Series, Catholic University of Milan (Italy);

Paper presented: “CO<sub>2</sub>-reducing innovations and outsourcing: evidence from two “green industries in North-East Italy”; with Riccardo Leoncini and Francesco Rentocchini;

- 3 November 2014: JRC-IPTS, European Commission, Seville (Spain);

Paper presented: “Key Enabling Technologies and Smart Specialization patterns. European evidence from patent data”; with Francesco Quatraro.

- 11 June 2014: GSBC-EIC, The Economics of Innovative Change, Department of Economics Friedrich Schiller University and Max Planck Institute of Economics (Jena, Germany);  
Paper presented: “Intangible investments and innovation. Evidence from the EU28 (... and more)”, with Antonio Vezzani;”
- 15 May 2014: Manchester Institute of Innovation Research (MIOIR), The University of Manchester, Manchester Business School (UK);  
Paper presented: “Intangible investments and innovation. Evidence from the EU28 (... and more)”, with Antonio Vezzani;”
- 9 May 2014: DEAMS Department of Economics, Business, Mathematics and Statistics, University of Trieste (Italy);  
Paper presented: “Innovation cooperation within and across regional boundaries. Does innovation policy add something?” with A. Marzucchi and Davide Antonioli;
- 17 April 2014: GREDEG, CNRS and University Sophia Antipolis (Nice, France);  
Paper presented: “Intangible investments and innovation. Evidence from the EU28 (... and more)”, with Antonio Vezzani;”
- 14 February 2013: Orkestra Institute of the Deusto University, San Sebastian (Spain);  
Paper presented: “Innovation cooperation within and across regional boundaries. Does innovation policy add something?” with A. Marzucchi and Davide Antonioli.
- 19 October 2012: SPRU Freeman Centre Friday Seminars, University of Sussex (UK).  
Paper presented: “The additionality of innovation policy: dimension, levels and results”.

#### *Organisation of conferences and workshops*

- 18 – 21 October 2023: 64th Annual Meeting of Italian Economists Society (Società Italiana di Economia SIE). Member of the hosting committee.
- 25 January 2023: Oxford Style Debate on: “Net-zero transition policies and inequality”, PhD Kick-off meeting of the National PhD Program in Sustainable Development and Climate Change, IUSS Pavia (Italy).
- 17 – 18 May 2022: 5th Workshop of the series on “Migration, Globalization and the Knowledge Economy”, GSSI of L’Aquila (Italy).
- 23 – 24 September 2021: 2021 Workshop of the European Network on the Economics of the Firm (ENEF) (virtual event).
- 3 June 2021: RSAI-GSSI Workshop on “Regions in-between the green transition and the digital transformation, GSSI of L’Aquila (virtual event).
- 21 – 22 January 2021: 2021 Meeting of the European Networks of the Economics of the Firm (ENEF), Department of Economics, University of Bergamo (Italy) (virtual event).
- 25 – 27 October 2018: Special Session of the 59<sup>th</sup> Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE) on “Green Regional Economy and Eco-innovation”, Bologna (Italy), with Francesco Aiello, Francesco Quatraro, Alessandro Sapio, and Stefano Usai.
- 31 January – 2 February 2018: Special Session of 4th Geography of Innovation Conference, Barcelona (Spain), on “The geography of eco-innovations”, with Francesco Quatraro.

- 17 May 2016: I Kore University International Workshop in Business and Economics (KoreBE) on “Differentiation, related variety, and regional development: research issues and policy implications”, Kore University of Enna (Italy).
- 26 – 27 September 2013: 4th European Conference on Corporate R&D and Innovation, Concord-i 2013, JRC-IPTS, European Commission, Seville (Spain).
- 14 – 15 June 2012: IPTS Steering Workshop on “Industrial Research and Innovation”, JRC-IPTS, European Commission, Seville (Spain).
- 13 – 14 September 2012: 9th Meeting of the European Networks of the Economics of the Firm (ENEF), Department of Economics, University of Bologna (Italy).
- 6-7 February 2009: OPENLOC & PRIN2007 Opening Conference on “Emerging economic regional powers and local systems of production: New threats or new opportunities?”, Department of Economics, University of Bologna (Italy).
- 25 – 26 November 2005: Final Conference of PRIN2003 on “Dynamic Capabilities between Firm Organisation and Local Production Systems”, University of Bologna (Italy).
- 17 December 2003: I Workshop of PRIN2003 on “Dynamic Capabilities between Firm Organisation and Local Production Systems”, University of Bologna (Italy).
- 19 October 2002: I Workshop of PRIN2000 on “Infrastructures, Competitiveness and Governance Levels: Knowledge and Development of the New Economy”, University of Bologna (Italy).

*Presentations at conferences and workshops subject to peer-review*

- 10 – 12 January 2024, GeoInno Conference 2024, University of Manchester.  
Paper presented: “Regional green-tech diversification and inter-regional green knowledge flows: EU evidence”; with Adelia Fatikhova and Fabrizio Fusillo.
- 24 – 26 October 2023, 9th European Conference on Corporate R&D and Innovation, Joint Research Center, European Commission, Seville (Spain).  
Paper presented: “Walking the green line: government sponsored R&D and clean technologies”; with Francesco Rentocchini and Antonio Vezzani.
- 19 – 21 October 2023, 64th Annual Conference of the Italian Economic Association, GSSI L’Aquila (Italy).  
Paper presented: “Innovation and data analytics within firms: the role of high-involvement organisational practices”; with Luca Cattani, Chiara Franco, and Fabio Landini.
- 6 – 8 September 2023, 2023 AISRE Conference, University of Naples Parthenope (Italy).  
Paper presented: “Regional green-tech diversification and inter-regional green knowledge flows: EU evidence”; with Adelia Fatikhova and Fabrizio Fusillo.
- 15 – 16 June 2023, XXI SIEPI Annual Workshop, University Federico II of Naples (Italy).  
Paper presented: “Regional green-tech diversification and inter-regional green knowledge flows: EU evidence”; with Adelia Fatikhova and Fabrizio Fusillo.

- 10 – 12 June 2023, 2023 DRUID Conference, NOVA School of Business and Economics of Lisbon (Portugal).

Paper presented: “Innovation and data analytics within firms: the role of high-involvement organisational practices”; with Luca Cattani, Chiara Franco, and Fabio Landini.

- 4 – 6 May 2023, 2023 SEEDS Workshop, University of Ferrara (Italy).

Paper presented: “Regional green-tech diversification and inter-regional green knowledge flows: EU evidence”; with Adelia Fatikhova and Fabrizio Fusillo.

- 20 – 22 October 2022, 63rd Annual Conference of the Italian Economic Association, University of Turin (Italy).

Paper presented: Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.

- 27 – 29 September 2022, 2022 CERCIS Conference, University of Ferrara (Italy).

Paper presented: ““Look where they are!” Firms’ eco-innovations and I4.0 technologies in urban and rural areas”, with Luca Cattani and Antonio Vezzani.

- 5 – 6 September 2022, AISRE Conference, Polytechnic University of Milan (IT).

Papers presented: ““Look where they are!” Firms’ eco-innovations and I4.0 technologies in urban and rural areas”, with Luca Cattani and Antonio Vezzani.; “Social capital and regional innovation in the aftermath of crisis: Evidence from Italian provinces”; with Alessandra Faggian and Marianna Marino.

- 11- 13 July 2022, 2022 R&D Management Conference, University of Trento (IT), hybrid event.

Paper presented: “Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.

- 4 – 6 July 2022, 6<sup>th</sup> Conference on the Geography of Innovation (GEOINNO2022), Bocconi University of Milan (IT).

Papers presented: “Eco-innovation and digitalisation in Small Medium Enterprises: Does geographical location make the difference?” with Luca Cattani and Antonio Vezzani; “Do migrants move along the routes of technological proximity? Evidence from Spanish NUTS3 regions” with Anna D’Ambrosio, Chiara Franco, and Francesco Quatraro; ““With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe” with Claudio Cozza, Alessandro Palma, and Francesco Tarasconi.

- 16 – 17 June 2022, XX SIEPI Annual Workshop, University of L’Aquila (IT).

Paper presented: “Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.

- 13 – 15 June 2022, 2022 DRUID Conference, Copenhagen Business School (DK).

Paper presented: “Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.

- 21 – 22 April 2022, 10th IAERE Annual Conference, University of Cagliari (IT), hybrid event.

Paper presented: “Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.

- 16 – 18 December 2021, CERCIS Annual Workshop, University of Ferrara (IT).



Paper presented: “Digital technologies and eco-innovations. Evidence of the “twin transition” from Italian firms”, with Antonio Vezzani.

- 26 – 29 October 2021, 62<sup>nd</sup> Annual Workshop of the Italian Association of Italian Economists (Società Italiana di Economia, SIE) on “Economia e sfide globali. Salute, cambiamenti climatici, tecnologie digitali” (virtual event).

Paper presented: ““With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe”, with Claudio Cozza, Iliaria Gandin and Gianluca Tarasconi.

- 18 – 20 October 2021, 2021DRUID Conference, Copenhagen Business School.

Papers presented: “On the geography of radical innovations: Key Enabling Technologies (KETs) and technological novelty in European regions”, with Gianluca Orsatti and Francesco Quatraro; “Proximities and access to Venture Capital: evidence from Italian innovative start-ups”; with Francesca Ghinami.

- 23 – 24 September 2021, 18<sup>th</sup> Workshop of the European Network on the Economics of the Firm (ENEF) on “Green and Digital Transformations in Times of Recovery. The Role of Incumbent Firms, Start-ups and Financial Institutions”(virtual event).

Paper presented: “Digital technologies and new environmentally sustainable production processes. A privileged role for Artificial Intelligence?”, with Antonio Vezzani.

- 24 – 27 August 2021, 60<sup>th</sup> ERSA Conference, organised by the University of Bolzano (virtual).

Papers presented: “Do migrants move along the routes of technological proximity? Evidence from Spanish NUTS3 regions”, with Anna D'ambrosio, Chiara Franco, and Francesco Quatraro; “Proximities and access to Venture Capital: evidence from Italian innovative start-ups”; with Francesca Ghinami; “Foreign Direct Investments and regional specialization in environmental technologies”, with Davide Castellani, Giovanni Marin and Antonello Zanfei; ““With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe”, with Claudio Cozza, Iliaria Gandin and Gianluca Tarasconi.

- 8 – 10 July 2021, 18<sup>th</sup> International Schumpeter Society (ISS) Conference, organised by LUISS Rome (virtual)

Papers presented: “Regional technological diversification and the global R&D network: “be related, but also connected!””, with Chiara Burlina, Fabrizio Fusillo, and Alessandro Palma; “With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe”, with Claudio Cozza, Iliaria Gandin, Alessandro Palma, and Gianluca Tarasconi. “Harnessing artificial intelligence for regional eco-innovation: a patent-based analysis of European regions’ green-tech diversification”, with Gloria Cicerone, Alessandra Faggian and Francesco Rentocchini.

- 10 -11 June 2021, XIX Annual Workshop of the Italian Association of Industrial Economics and Politics (SIEPI) (Virtual)

Paper presented: “Regional technological diversification and the global R&D network: “be related, but also connected!””, with Chiara Burlina, Fabrizio Fusillo, and Alessandro Palma;

- 25 – 28 May 2021, 13<sup>th</sup> World Congress of the Regional Science Association International (RSAI) (Virtual)

Paper presented: “With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe”, with Claudio Cozza, Iliaria Gandin, Alessandro Palma, and Gianluca Tarasconi.

- 22 – 25 February 2021, Western Regional Science Association 60th Annual Meeting (Virtual):  
 Paper presented: “Harnessing artificial intelligence for regional eco-innovation: a patent-based analysis of European regions’ green-tech diversification”, with Gloria Cicerone, Alessandra Faggian and Francesco Rentocchini.
- 21-22, January 2021, ENEF2020, 17th European Network on the Economics of the Firm (ENEF):  
 Paper presented: ““With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe”, with Claudio Cozza, Iaria Gandin, Alessandro Palma, and Gianluca Tarasconi
- 20 – 23 October 2020, 61st Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE), Virtual Conference:  
 Paper presented: “Harnessing artificial intelligence for regional eco-innovation: a patent-based analysis of European regions’ green-tech diversification”, with Gloria Cicerone, Alessandra Faggian and Francesco Rentocchini.
- 9-10 September 2020, XVII Workshop c.MET05, Virtual Conference:  
 Papers presented: “With no siblings, but with home: single patent-class inventions and regional technological diversification in Europe”, with Claudio Cozza.
- 2-4 September 2020, AISRE 2020 Conference on “Regions in-between unexpected threats and opportunities”, Virtual Conference:  
 Papers presented: “Harnessing artificial intelligence for regional eco-innovation: a patent-based analysis of European regions’ green-tech diversification”, with Gloria Cicerone, Alessandra Faggian and Francesco Rentocchini; “MNEs and regional specialisation in environmental technologies”, with Giovanni Marin, Davide Castellani, and Antonello Zanfei”; “The geography of Covid-19 and the structure of local economies: the case of Italy”, with Andrea Ascani and Alessandra Faggian; “With no siblings, but with home: single patent-class inventions and regional technological diversification in Europe”, with Claudio Cozza.
- 29 – 31 January 2020, GeoInno2020, 5<sup>th</sup> Geography of Innovation Conference, University of Stavanger (Norway).  
 Papers presented: “Unlocking the Green Door of Regional Development: The Role of MNEs in Greening Local Inventive Activities”, with Davide Castellani, Giovanni Marin and Antonello Zanfei; “Design and Innovation: does the "green-matching" Actually Help?”, with Claudia Ghisetti and Antonio Vezzani; “On the geography of radical innovations: Key Enabling Technologies (KETs) and technological novelty in European regions”, with Gianluca Orsatti and Francesco Quatraro; “Harnessing artificial intelligence for regional eco-innovation: a patent-based analysis of European regions’ green-tech specialization”, with Gloria Cicerone, Alessandra Faggian, and Francesco Rentocchini.
- 7 – 8 November 2019, Regional Innovation Policies Conference 2019 on “Technological change, social innovation, and regional transformation”, University of Florence (Italy).  
 Papers presented: “Harnessing artificial intelligence for regional eco-innovation: a patent-based analysis of European regions’ green-tech diversification”, with Gloria Cicerone, Alessandra Faggian and Francesco Rentocchini; “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti; ““With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe”, with Claudio Cozza, Iaria Gandin and Gianluca Tarasconi.
- 24 – 26 October 2019, 60th Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE) on “Economies, Ideas and Politics”, University of Palermo (Italy):

Papers presented: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti; “Unlocking the green door of regional development: the role of MNEs in greening local inventive activities”, with Davide Castellani, Giovanni Marin, and Antonello Zanfei; “Circular economy and sustainability: a conceptually ambiguous relationship”, with Jacopo Zotti.

- 25 – 27 September 2019, CONCORDi 2019 Conference on “Innovation for transformation”, JRC-EC, Seville (ES):

Papers presented: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti; “Financial constraints and intangible investments: Deterring or revealed barriers to engage in innovation?”, with Antonio Vezzani; “Design and innovation: Does the “green-matching” actually help?”, with Claudia Ghisetti and Antonio Vezzani.

- 16-18 September 2019, AISRE 2019 Conference on “Beyond the crises: Renewal, reconstruction and local development”, GSSI, L’Aquila (Italy):

Papers presented: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti; “Unlocking the green door of regional development: the role of MNEs in greening local inventive activities”, with Davide Castellani, Giovanni Marin, and Antonello Zanfei; “On the geography of radical innovations: Key Enabling Technologies (KETs) and technological novelty in European regions”, with Gianluca Orsatti and Francesco Quatraro.

- 27-29 June 2019, Uddevalla Symposium 2019: “Unlocking the potential of regions through entrepreneurship and innovation”, GSSI, L’Aquila (Italy):

Papers presented: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti; “Unlocking the green door of regional development: the role of MNEs in greening local inventive activities”, with Davide Castellani, Giovanni Marin, and Antonello Zanfei.

- 19-21 June 2019, Danish Research Unit for Industrial Dynamics (DRUID) 2019 Conference, Copenhagen Business School (Denmark):

Papers presented: “Regional diversification patterns and Key Enabling Technologies (KETs) in Italian regions”, with Roberto Antonietti; “Financial constraints and intangible investments: Deterring or revealed barriers to engage in innovation?”, with Antonio Vezzani.

- 28-30 May 2019: Workshop on Technology, Work and Internationalization, University of Urbino Carlo Bo’:

Paper presented: “Unlocking the green door of regional development: the role of MNEs in greening local inventive activities”, with Davide Castellani, Giovanni Marin, and Antonello Zanfei.

- 7-8 February 2019: Annual Workshop of the Italian Association of Environmental and Resource Economists (IAERE 2019), University of Udine (IT):

Paper presented: “Does “financing-as-usual” still matter for circular economy practices? Evidence from European SME”, with Claudia Ghisetti.

- January 31 – February 1, 2019: XVII Annual Workshop of the Italian Association of Industrial Economics and Policy (Società Italiana di Economia e Politica Industriale), University of Roma Tre (IT):

Paper presented: “Financial constraints and intangible investments: Deterring or revealed barriers to engage in innovation?”, with Antonio Vezzani.

- 25 – 27 October 2018: 59<sup>th</sup> Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE) on “Globalisation and development: cities, regions and countries”, Bologna (Italy):

Papers presented: “Persistence of innovation in times of crisis: evidence from Italian firms”, with Davide Antonioli”; “Green technologies and S3: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies”, with Francesco Quatraro.

- 26 – 28 September 2018: 2018 SMARTER Conference on Smart Specialisation and Territorial Development: “Implementation across Global Networks of Regions, Cities and Firms”, JRC-EC, Seville (ES):

Paper presented: “Key Enabling Technologies (KETs) in-between smart specialization and (un)related diversification: An empirical analysis of Italian regions”, with Roberto Antonietti.

- 18 September 2018: Sustainability, Environmental Economics and Dynamic Studies (SEEDS2018) Workshop, University of Ferrara (Italy):

Paper presented: “On the adoption of circular economy practices by Small and Medium-size Enterprises (SMEs): does their financing matter?”, with Claudia Ghisetti.

- 13 – 14 September 2018: 15th European Network on the Economics of the Firm (ENEF) meeting on “Firm Automation in the Era of Artificial Intelligence: The Future of Organisation, Employment, and Productivity”, SPRU, University of Sussex (UK):

Paper presented: “Key Enabling Technologies and (Un)related Diversification in Italian Regions”, with Roberto Antonietti.

- 11– 13 June 2018: Danish Research Unit for Industrial Dynamics (DRUID) 2018 Conference, Copenhagen Business School (Denmark):

Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms”, with Davide Antonioli.

- 31 January – 2 February 2018: 4th Geography of Innovation Conference, University of Barcelona (Spain):

Papers presented: “Green technologies and S3: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies”, with Francesco Quatraro.

- 19 – 21 October 2017: 57th Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE), University of La Calabria (Italy):

Papers presented: “Green technologies and regional specialisation: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies”, with Francesco Quatraro; “Un-packing eco-design: new evidence on eco-innovation and design from the Eurobarometer survey”, with Claudia Ghisetti.

- 27 – 29 September 2017: CONCORDi 2017 Conference on “Innovation and Industrial Dynamics: Challenges for the next decade”, European Commission, Joint Research Centre – Directorate for Growth and Innovation, in collaboration with OECD Directorate for Science, Technology and Innovation, Seville (Spain):

Paper presented: “Green technologies and regional specialisation: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies”, with Francesco Quatraro.

- 14 – 15 September 2017: 14th European Network on the Economics of the Firm (ENEF) meeting on “Technological change and employment dynamics at the firm and industry level”, Institute of Economics, Sant’Anna School of Advanced Studies (Pisa, Italy):

Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms (2005 - 2010)”, with Davide Antonioli; “Un-packing eco-design: new evidence on eco-innovation and design from the Eurobarometer survey”, with Claudia Ghisetti.

- 8 – 9 June 2017: 2017 Workshop c.MET05 (Dataset MET), University of Ferrara (Italy);

Paper presented: “Persistence of innovation in times of crisis: evidence from Italian firms (2005 - 2010)”, with Davide Antonioli.

- 16 – 17 February 2017: 2017 Conference of the International Association of Environmental and Resource Economists, University of Rome Tor Vergata (Italy);

Paper presented: “Un-packing eco-design: new evidence on eco-innovation and design from the Eurobarometer survey”, with Claudia Ghisetti.

- 20 – 22 October 2016: 56th Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE), Bocconi University of Milan (Italy).

Papers presented: “Innovating successfully through design: Evidence from European companies”, with Antonio Vezzani; “Better Late Than Never: a longitudinal quantile regression approach to the interplay of employment growth, green technology and age”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo;

- 28 – 30 September 2016: First SMARTER Conference on Smart Specialisation and Territorial Development, Seville (Spain).

Paper presented: “Smart and Sustainable Smart Strategies (S4) in European Regions: A patent-based analysis”, with Francesco Quatraro.

- 15 – 16 September 2016: 13th European Network on the Economics of the Firm (ENEF) meeting on “Firms, technology and the quest for sustainable development”, University of Turin (IT);

Papers presented: “Innovating successfully through design: Evidence from European companies”, with Antonio Vezzani; “Better Late Than Never: a longitudinal quantile regression approach to the interplay of employment growth, green technology and age”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo;

- 22 – 24 June 2016: GCW 2016 Conference on “Innovation, Employment and the Environment”, Politechnic University of Valencia (Spain)

Papers presented: “Innovating successfully through design. Evidence from European companies”, with Antonio Vezzani; “Better Late Than Never: a longitudinal quantile regression approach to the interplay of employment growth, green technology and age”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo;

- 13 – 15 June 2016: Danish Research Unit for Industrial Dynamics (DRUID) 2016 Conference, Copenhagen Business School (Denmark):

Paper presented: “Better Late Than Never: a longitudinal quantile regression approach to the interplay of employment growth, green technology and age”; with Alberto Marzucchi, Riccardo Leoncini, Francesco Rentocchini and Ugo Rizzo;

-11 – 12 February 2016: 2016 Conference of the International Association of Environmental and Resource Economists (IAERE), University of Bologna (Italy);

Paper presented: “Forms of knowledge and eco-innovative modes. Evidence from the Spanish PITEC”, with Alberto Marzucchi;

- 22 – 24 October 2015: 56th Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE), University of Naples (Italy).

Papers presented: “Smart Specialisation Strategies and Key Enabling Technologies. A patent based analysis of European data”; with Francesco Quatraro; “CO2-reducing innovations

and outsourcing: evidence from photovoltaics and green construction in North–East Italy”; with Riccardo Leoncini and Francesco Rentocchini.

- 10 – 11 September 2015: 12th European Network on the Economics of the Firm (ENEF) meeting on “Firms, Networks and Innovation Behaviour”, University of Toulouse, LEREPS and INRA, UMR AGIR, Tolose (France);

Papers presented: “Forms of knowledge and eco-innovative modes. Evidence from the Spanish PITEC”, with Alberto Marzucchi; “Do Key Enabling Technologies shape regional smart specialization strategies? A patent based analysis of European data”; with Francesco Quatraro.

- 15 – 17 June 2015: Danish Research Unit for Industrial Dynamics (DRUID) 2015 Conference, LUISS University of Rome (Italy);

Papers presented: “Do Key Enabling Technologies shape regional smart specialization strategies? A patent based analysis of European data”; with Francesco Quatraro; “Multinationality, R&D and productivity. Evidence on the top R&D spenders”; with Davide Castellani, Torben Schubert, and Antonio Vezzani; “CO2-reducing innovations and outsourcing: evidence from two "green industries" in North-East Italy; with Riccardo Leoncini and Francesco Rentocchini.

- 1 – 3 June 2015: European Meeting on Applied Evolutionary Economics (EMAEE) 2015 Conference, University of Maastricht (The Netherlands);

Papers presented: “Forms of knowledge and eco-innovative modes. Evidence from the Spanish PITEC”, with Alberto Marzucchi; “Do Key Enabling Technologies shape regional smart specialization strategies? A patent based analysis of European data”; with Francesco Quatraro.

- 20 – 21 February 2015: 2015 Conference of the International Association of Environmental and Resource Economists (IAERE), University of Padua (I);

Paper presented: “Exploration, exploitation in R&D and external knowledge search. What matters for eco-innovation strategies?”; with Alberto Marzucchi.

- 23 – 25 October 2014: 55th Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE), University of Trento (Italy).

Papers presented: “Intangible investments and innovation. Empirical evidence from the Innobarometer 2013”; with Antonio Vezzani; “Key Enabling Technologies and Smart Specialization patterns. European evidence from patent data”; with Francesco Quatraro.

- 18 – 19 September 2014: 10th EIASM (European Institute for Advanced Studies in Management) Workshop on Intangibles, Intellectual Capital and Extra-financial Information, University of Ferrara (Italy).

Paper presented: “Intangible investments and innovation. Empirical evidence from the Innobarometer 2013”; with Antonio Vezzani;

- 11 – 13 September 2014: XXXV Scientific Conference of the Italian Association of Regional Economics (Associazione Italiana di Scienze Regionali), University of Padua (Italy).

Paper presented: “CO2-reducing innovations and outsourcing: evidence from two green industries in North-East Italy”; with Riccardo Leoncini and Francesco Rentocchini.

- 27 – 30 July 2014: 15th Conference of the International J. Schumpeter Society (ISS), Friedrich Schiller University Jena (Germany).

Papers presented: “Intangible Investments and Innovation – Evidence from the EU28 (... and more)”, with Antonio Vezzani; “Environmental innovations and firm’s boundaries: evidence from two ecological industries in North--East Italy”; with Riccardo Leoncini and Francesco Rentocchini.

- 18 – 20 June 2014: 3rd International Conference of the Governance of a Complex World 2014, Campus Luigi Einaudi (CLE), Turin (Italy).

Paper presented: “Environmental innovations and firm’s boundaries: evidence from two ecological industries in North--East Italy”; with Riccardo Leoncini and Francesco Rentocchini;

- 16 – 19 June 2014: 2014 Danish Research Unit for Industrial Dynamics (DRUID) Conference, Copenhagen Business School, Denmark.

Paper presented: “On the R&D giants’ shoulders: Do FDI help to stand on them?; with Antonio Vezzani.

- 24 – 26 October 2013: 54th Annual Conference of the Italian Economic Association (Società Italiana degli Economisti, SIE), University of Bologna.

Paper presented: “Does external knowledge affect environmental innovations? An empirical investigation on eleven European countries”; with Claudia Ghisetti and Alberto Marzucchi.

- 26 – 27 September 2013: 4th European Conference on Corporate R&D and Innovation (Concord-i 2013), IPTS-JRC Seville (Spain).

Steering document prepared: “Financing R&D and Innovation for Corporate Growth in Europe: Strategies, Drivers and Barriers”; with the steering committee.

- 19 – 20 September 2013: 10th Meeting of the European Networks of the Economics of the Firm (ENEF), Spanish National Research Council, Madrid (Spain).

Paper presented: “Does external knowledge affect environmental innovations? An empirical investigation on eleven European countries”; with Claudia Ghisetti and Alberto Marzucchi.

- 17 – 19 June 2013: 35th Danish Research Unit for Industrial Dynamics (DRUID) Celebration Conference 2013, ESADE Barcelona (Spain).

Paper presented: “The production function of top R&D investors: accounting for size and sector heterogeneity with quantile estimations”; with Antonio Vezzani.

- 13 – 14 September 2012: 9th Meeting of the European Networks of the Economics of the Firm (ENEF), Department of Economics, University of Bologna (Italy).

Papers presented: “Innovation cooperation within and across regional boundaries. Does innovation policy add something?” with A. Marzucchi and Davide Antonioli; “Do green-sectors benefit from technology transfer? A two-industry investigation for North-East Italy”, with R. Leoncini and Francesco Rentocchini.

- 30 January -1 February 2012: Workshop on “Innovation systems and innovative firms”, University of Deusto and the Basque Institute of Competitiveness (Orkestra), San Sebastian (Spain).

Paper presented: “Production and financial linkages in inter-firm networks: structural variety, risk-sharing and resilience”; with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 12-13 December 2011: International OPENLOC Workshop on: “Knowledge and production networks for sustainable local development”, University of Trento (Italy).

Paper presented: “On the potential face of absorptive capacity: evidence for an area of 3 European countries”; with Chiara Franco and Alberto Marzucchi.

- 20 – 21 October 2011: International Conference on “Clusters in Global Value Chains/ Production Networks: What is the Role of Innovation Systems?”, University of Deusto, San Sebastian (Spain).

Paper presented: “On the potential face of absorptive capacity: evidence for an area of 3 European countries”; with Chiara Franco and Alberto Marzucchi.

- 7 October 2011: 3rd Conference on Corporate R&D - CONCORD 2011, IPTS-JRC Seville (Spain).

Paper presented: “On the potential face of absorptive capacity: evidence for an area of 3 European countries”; with Chiara Franco and Alberto Marzucchi.

- 7 – 8 September 2011: 8th European Network on the Economics of the Firm (ENEF) Workshop on “Strategy & Economics of the Firm”, Universities of Strasbourg (France).

Paper presented: “On the potential face of absorptive capacity: evidence for an area of 3 European countries”; with Chiara Franco and Alberto Marzucchi.

- 12 – 13 November 2010: Final Workshop of the PRIN Project on “Emerging economic regional powers and local systems of production”, University of Roma Tre (Italy).

Paper presented: “Firms' death rate and spatial agglomeration. Evidence on the resilience of Italian districts”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 16 – 17 September 2010: 7th European Network on the Economics of the Firm (ENEF) Workshop on “Ronald Coase and the economics of the firm”, Amsterdam School of Economics (NL).

Paper presented: “Firms' death rate and spatial agglomeration. Evidence on the resilience of Italian districts”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 21 – 24 June 2010: 2010 International Joseph A. Schumpeter Society (ISS) Conference, Aalborg University (Denmark).

Paper presented: “Production and financial linkages in inter-firm networks: structural variety, risk sharing and resilience”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 16 – 18 June 2010: 2010 Danish Research Unit for Industrial Dynamics (DRUID) Summer Conference, Imperial College London (UK).

Paper presented: “Production and financial linkages in inter-firm networks: structural variety, risk sharing and resilience”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 09 – 10 June 2010: IV PRIN07 Workshop on “Emerging economic regional powers and local systems of production”, University of Novara (Italy).

Paper presented: “Firms' death rate and spatial agglomeration. Evidence on the resilience of Italian districts”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 29 January 2010: International Workshop on “Local production systems and global economic crisis: responses and restructuring”, School of Local Development, University of Trento (Italy).

Paper presented: “Production and financial linkages in inter-firm networks: structural variety, risk sharing and resilience”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 22 – 23 January 2010: III PRIN07 Workshop on “Emerging economic regional powers and local systems of production”, University of Padua (Italy).

Paper presented: “Production and financial linkages in inter-firm networks: structural variety, risk sharing and resilience”, with Giulio Cainelli and Giuseppe Vittucci Marzetti.

- 22 – 23 October 2009: 50th Annual Meeting of Italian Economists Society (Società Italiana degli Economisti SIE), Bank of Italy and University LUISS Guido Carli of Rome (Italy).

Paper presented: “Indirect trade related R&D spillovers: the Average Propagation Length of foreign R&D”, with Chiara Franco and Giuseppe Vittucci Marzetti.

- 17-19 September 2009; 6th European Network on the Economics of the Firm (ENEF) Workshop on “Institutional complementarities and the firm: financialisation, globalisation and beyond”, CNAM-INTEC, Paris (France).

Paper presented: “From techno-scientific grammar to organizational syntax: new production insights on the nature of the firm”, with Mauro Lombardi and Riccardo Leoncini.



- 13-17 July 2009: 17th International Input-Output Association (IIOA) Conference, University of Sao Paulo – USP, San Paolo (Brasil).

Paper presented: “On indirect trade-related R&D spillovers: the role of the international trade network”; with Chiara Franco and Giuseppe Vittucci Marzetti.

- 19-20 June 2009: II PRIN07 Workshop on “Emerging economic regional powers and local systems of production”, University of Foggia (Italy).

Paper presented: “On indirect trade-related RD spillovers: the role of the international trade network”, with Chiara Franco and Giuseppe Vittucci Marzetti.

- 6-7 February 2009: OPENLOC & PRIN2007 Opening Conference on “Emerging economic regional powers and local systems of production: New threats or new opportunities?”, Department of Economics, University of Bologna (Italy).

Paper presented: “Outsourcing, delocalization and firm organization: transaction costs vs. industrial relations in a local production system of Emilia Romagna”, with Massimiliano Mazzanti and Paolo Pini.

- 6-11 November 2008: 2008 Conference of the European Association of Evolutionary Political Economy (EAEPE), University of Roma Tre, Rome (Italy).

Paper presented: “Outsourcing and firm productivity: evidence for an Italian local production system”, with Davide Antonioli, Massimiliano Mazzanti and Paolo Pini.

- 9-11 October 2008: International Conference on “Apparent Antithesis: Globalisation and Local Development”, School on Local Development, University of Trento (Italy).

Paper presented: “Outsourcing and firm productivity: evidence for an Italian local production system”, with Davide Antonioli, Massimiliano Mazzanti and Paolo Pini.

- 18 – 20 June 2008: 25th Danish Research Unit for Industrial Dynamics (DRUID) Celebration Conference 2008, Copenhagen Business School, Copenhagen (Denmark).

Papers presented: “Outsourcing, delocalization and firm organization: transaction costs vs. industrial relations in a local production system of Emilia Romagna”, with Massimiliano Mazzanti and Paolo Pini; “The deindustrialisation tertiarisation hypothesis reconsidered. A subsystem application to the OECD7”, with Giuseppe Vittucci Marzetti.

- 12 – 13 June 2008: International Workshop on “Local Development and Global Dynamics”, School of Local Development, University of Trento (Italy).

Paper presented: “Outsourcing in local production systems: determinants and consequences. The case of an Emilia Romagna province”.

- 3 – 4 June 2008: Final Workshop of PRIN2005 on “Fragmentation and local development: interpretative models and economic policy scenario”, University of Padua (Italy).

Paper presented: “Outsourcing and firm performance: evidence for an Italian local production system”, with Davide Antonioli, Massimiliano Mazzanti and Paolo Pini.

- 2 May 2008: International Workshop on “Conflict, coordination, and governance in local development”, Corvinus University of Budapest, Budapest (Hungary).

Papers presented: “The local governance of outsourcing and delocalization processes: transaction costs vs. industrial relations in a local production system of Emilia-Romagna”.

- 1 – 3 November 2007: 2007 Conference of the European Association of Evolutionary Political Economy (EAEPE), University of Porto (Portugal).

Papers presented: “Outsourcing, delocalization and firm organization: transaction costs vs. industrial relations in a local production system of Emilia Romagna”, with Massimiliano Mazzanti and Paolo Pini; “Innovation clusters in technological systems: a network analysis of 15 OECD countries for the middle '90s”, with Giuseppe Vittucci Marzetti; “Product

architecture and the organisation of industry. The role of firm competitive behaviour”, with Tommaso Ciarli, Riccardo Leoncini and Marco Valente.

- 2 – 6 July 2007: 16th International Input-output Association (IIOA) Conference, University of Istanbul (Turkey).

Papers presented: “Innovation clusters in technological systems: a network analysis of 15 OECD countries for the middle ’90s”, with Giuseppe Vittucci Marzetti; “Constructing intersectoral innovation diffusion networks with input-output: how to get relative flows? An illustrative application to six OECD technological systems for the middle ’90s”, with Giuseppe Vittucci Marzetti.

- 28 – 29 June 2007: III Workshop of PRIN2005 on “Fragmentation and local development: interpretative models and economic policy scenario”, University of Novara (Italy).

Papers presented: “The deindustrialisation/tertiarisation hypothesis reconsidered: a subsystem application to the OECD7”, with Giuseppe Vittucci Marzetti; “Dynamic capabilities and industrial evolution: a simulation model”, with Tommaso Ciarli, Riccardo Leoncini and Marco Valente.

- 21 – 23 June 2007: XVI Conference of the Italian Association of Comparative Economic Systems (AISSEC), University of Parma (Italy).

Paper presented: “Outsourcing, delocalization and firm organization: transaction costs vs. industrial relations in a local production system of Emilia-Romagna”, with Massimiliano Mazzanti and Paolo Pini.

- 18 – 21 June 2007: 2007 Danish Resource Unit for Industrial Dynamics (DRUID) Summer Conference, Copenhagen Business School, Copenhagen (Denmark).

Paper presented: “Innovation clusters in technological systems: a network analysis of 15 OECD countries for the middle ’90s”, with Giuseppe Vittucci Marzetti.

- 26 – 27 January 2007: II Workshop PRIN2005 on “Fragmentation and local development: interpretative models and economic policy scenario”, University of Lecce (Italy).

Papers presented: “Foreign Direct Investments (FDI) and productivity spillovers: a critical survey”, with Chiara Franco; “Innovation clusters in technological systems: a network analysis of 15 OECD countries for the middle ’90s”, with Giuseppe Vittucci Marzetti; “Dynamic capabilities and industrial evolution: a simulation model”, with Tommaso Ciarli, Riccardo Leoncini, and Marco Valente.

- 19 – 20 January 2007: REF International Workshop on “Internal Organisation, Cooperative Relationships among Firms and Competitiveness”, University of Pisa, Lucca (Italy).

Paper presented: “The general profile of the outsourcing firm: evidence for a local production system of Emilia Romagna”, with Massimiliano Mazzanti and Paolo Pini.

- 21-24 June 2006: 2006 International Joseph A. Schumpeter Society (ISS) Conference, Sophia-Antipolis Technopole, Nice (France).

Paper presented: “The organisation of industry in a modular world: some insights from a Pseudo-NK model”, with Tommaso Ciarli, Riccardo Leoncini and Marco Valente.

- 18-20 June 2006: 2006 Danish Resource Unit for Industrial Dynamics (DRUID) Summer Conference, Copenhagen Business School, Copenhagen (Denmark).

Papers presented: “Technological competition in modular environments”, with Tommaso Ciarli, Riccardo Leoncini and Marco Valente; “The general profile of the outsourcing firm: evidence for a local production system of Emilia Romagna”, with Massimiliano Mazzanti and Paolo Pini.

- 15-17 June 2006: 2006 Annual Workshop on Economic Science with Heterogeneous Interacting Agents (WEHIA), University of Bologna (Italy).  
Paper presented: “The organisation of industry in a modular world: some insights from a Pseudo-NK model”, with Tommaso Ciarli, Riccardo Leoncini and Marco Valente.
- 14-15 January 2006: National Research Council of Italy (CNR) Working Group of International Economics and Development on “International Flows of Goods, Capital and People: implications for development and competitiveness”, University Statale of Milan (Italy).  
Paper presented: “Outsourcing and structural change: shifting firm and sectoral boundaries”, with Giuseppe Vittucci Marzetti.
- 25 – 26 November 2005: Final Conference of PRIN2003 on “Dynamic Capabilities between Firm Organisation and Local Production Systems”, University of Bologna (Italy).  
Paper presented: “Linking technological change to organizational dynamics”, with Tommaso Ciarli, Riccardo Leoncini and Marco Valente.
- 20 – 21 June 2005: III Workshop of PRIN2003 on “Dynamic Capabilities between Firm Organisation and Local Production Systems”, University of Novara (Italy).  
Papers presented: “Outsourcing and structural change: shifting firm and sectoral boundaries”, with Giuseppe Vittucci Marzetti; “How dynamic capabilities evolve: Part II”, with Tommaso Ciarli and Riccardo Leoncini.
- 4 November 2004: School of Development Innovation and Change (SDIC) International Round Table on “National Ownership and Transferability of Political, Legal and Economic Institutions in Conflict and Post-Conflict Situations: the Role of the United Nations and Academia”, University of Bologna (Italy).  
Paper presented: “ICT and development: a feasibility study on Afghanistan”.
- 25-26 June 2004: II Workshop of PRIN2003 on “Dynamic Capabilities between Firm Organisation and Local Production Systems”, University of Lecce (Italy).  
Paper presented “On the nature of dynamic capabilities: clusters of organizations or organizational clusters? with Riccardo Leoncini.
- 14-16 June 2004: 2004 Danish Resource Unit for Industrial Dynamics (DRUID) Summer Conference, Elsinore (Denmark).  
Paper presented: “On the nature of dynamic capabilities: clusters of organizations or organizational clusters? with Riccardo Leoncini.
- 9-12 June 2004: 2004 International Joseph A. Schumpeter Society (ISS) Conference, University Bocconi of Milan (Italy).  
Paper presented: “On the nature of dynamic capabilities: clusters of organizations or organizational clusters?” with Riccardo Leoncini.
- 17 December 2003: I Workshop of PRIN2003 on “Dynamic Capabilities between Firm Organisation and Local Production Systems”, University of Bologna (Italy).  
Paper presented: “Dynamic capabilities: evolving organisations in evolving (technological) systems”; with Riccardo Leoncini and Giovanna Vertova.
- 20 June 2003: III Workshop of PRIN2000 on “Infrastructures, Competitiveness and Governance Levels: Knowledge and Development of the New Economy”, Catholic University of Milan (Italy).  
Paper presented: Modelling the firm from a system perspective: some methodological insights; with Alessandro Romagnoli.

- 19 October 2002: I Workshop of PRIN2000 on “Infrastructures, Competitiveness and Governance Levels: Knowledge and Development of the New Economy”, University of Bologna (Italy).

Papers presented: “Dynamic capabilities: evolving organisations in evolving (technological) systems”; with Riccardo Leoncini and Giovanna Vertova); “Towards an actual system-view of the firm: some methodological premises”; with Alessandro Romagnoli.

- 21 June 2002: II Workshop of PRIN2000 on “Infrastructures, Competitiveness and Governance Levels: Knowledge and Development of the New Economy”, University of Padua, Treviso (Italy).

Paper presented: “The ‘Resources, Capabilities, Competence’ perspective: towards an alternative theory of the firm”.

- 8 - 11 November 2001: 2001 Conference of the European Association of Evolutionary Political Economy (EAEPE), University of Siena (Italy).

Papers presented: “The ‘Resources, Capabilities, Competence’ perspective: towards an alternative theory of the firm”; “Unfolding the technological system: the foreign market and the institutional set-up”; with Riccardo Leoncini.

- 16 October 2000: Workshop of the Murst ex-40% Project on “Infrastructures, Competitiveness and Governance Levels: from the Italian to the European Economy”, University of Verona (Italy).

Paper presented: “Innovazione e cambiamento strutturale del sistema tecnologico italiano”; with Riccardo Leoncini.

- 9-10 December 1999: 1999 European Network on Industrial Policy (EUNIP) International Conference, Dublin (Ireland).

Paper presented: “The automobile technological systems. An empirical analysis of four European countries”; with Riccardo Leoncini.

- 7 December 1999: Workshop of the Murst ex-40% Project on “Infrastructures, Competitiveness and Governance Levels: from the Italian to the European Economy”, University of Trento (Italy).

Paper presented: “Il sistema tecnologico italiano nell’ultimo ventennio: un’analisi reticolare delle relazioni tra il settore manifatturiero ed il settore dei servizi”; with Riccardo Leoncini.

- 7-9 June 1999: 1999 European Meeting on Applied Evolutionary Economics (EMAE) Conference, Grenoble (France).

Paper presented: “Network analysis of eight technological systems”; with Riccardo Leoncini.

- 3-5 June 1999: XII Conference of the Italian Association of Comparative Economic Systems (AISSEC), University of Siena (Italy).

Paper presented: “Network analysis of eight technological systems”; with Riccardo Leoncini.

- 6-9 November 1997: 1997 Conference of the European Association of Evolutionary Political Economy (EAEPE), Panteion University, Athens (Greece).

Paper presented: “An alternative approach to the technological system: theoretical and methodological aspects for an empirical comparison”; with Riccardo Leoncini.

- 3-5 October 1996: XI Conference of the Italian Association of Labour Economists (AIEL), University of Naples (Italy).

Paper presented: “Modelling a reduction in standard working time: some empirical analysis of a firm’s demand perspective”; with Maria Semitiel Garcia.

## TEACHING AND SUPERVISION

### *i) Teaching modules in postgraduate courses: doctoral and master*

#### *International and/or taught in English*

- 2022/2023: “The Geography of Innovation and New Technologies” (Convenor and Lecturer), Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2022/2023: “The Geography of Innovation: an Introduction” (Lecturer), Module of the Course of “Economic Geography”, Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2022/2023: “Academic Writing and Presenting” (Co-Convenor and Lecturer), Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2021/2022: “Where to do it right. Proximity in entrepreneurial activities and financing”, 2h lecture within the Master in High-tech Entrepreneurship, Sant’Anna Institute of Management and Jotto (Joint Technology Transfer Office).
- 2021/2022: “Academic Writing and Presenting” (Co-Convenor and Lecturer), Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2021/2022: “Research Papers: From Design to Publication” (Convenor), Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2021/2022: “Economics of Innovation” (Convenor and Lecturer), Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2020/2021: “Economics of Innovation” (Convenor and Lecturer), Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2019/2020: “Economics of Innovation” (Convenor and Lecturer), Doctoral Program in Urban Studies and Regional Science, Gran Sasso Science Institute (GSSI) of L’Aquila (Italy).
- 2017/2018 – 2018/19: “Advanced economics 1”, Doctoral Program in Economics, Business and Law, Kore University of Enna (Italy).
- 2015/16: “Economic and legal analysis of innovation”, and “Local development, institutions and policies”, Doctoral Program in Economics, Business and Law, Kore University of Enna (Italy).
- 2014/15 – 2015/16: “Economics of innovation”, Doctoral Program in “Economics and Management of Innovation and Sustainability” (EMIS), University of Ferrara (Italy).
- 2011/12 – 2012/13: “Systems of innovation, growth and competitiveness”, International Doctoral Programme in “Business Competitiveness and Economic Development”; University of Deusto, San Sebastian (Spain).

- 2009/10 – 2011/12: “Economic of industries and innovation”, Global Studies Program of Master, University of Freiburg (Germany), in partnership with the International Master in Development, Innovation and Change (MiDIC), University of Bologna (Italy).
- 2002/03 – 2011/12: “Economic of industries and innovation”, International Master in Development, Innovation and Change (MiDIC), University of Bologna (Italy).
- 2008/09 – 2010/11: “Evolutionary economics, institutions and systems of innovation”; International Doctoral Program in “Local Development and Global Dynamics”; University of Trento (Italy), in partnership with the Universities of Bologna (Italy), Corvinus (Hungary), Deusto (Spain), Freiburg (Germany), Ljubljana (Slovenia), Manchester (UK), North Carolina (US), and Regensburg (Germany).
- 2008/09 – 2009/10: “Dynamic capabilities in local production systems”; Joint European Master in Comparative Local Development; University of Trento (Italy), in partnership with the Universities of Corvinus (Hungary) and Ljubljana (Slovenia).

*Taught in Italian*

- 2016/17 – 2018/19: “Economia e diritto dell’ambiente (Environmental economics and law)” (with Andrea di Landro and Filippo Cimino), Doctoral Program in Economics, Business and Law, Kore University of Enna (Italy).
- 2015/16: “Economia Applicata (Applied Economics)” (with Raffaele Scuderi), Corso di Laurea Magistrale in Economia e Direzione Aziendale, Facoltà di Scienze Economiche e Giuridiche (Master in Business and Management, Faculty of Economics and Law), Kore University of Enna (Italy).
- 2014/15: “Economia dell’Impresa e dell’Innovazione (Economics of the firm and innovation)”, Corsi di Laurea Specialistica in Giurisprudenza, Scuola di Giurisprudenza (Master Degree in Law, School of Law) and in Cooperazione e Sviluppo Locale ed Internazionale, Scuola di Scienze Politiche (Master Degree in Cooperation and Local and International Development, School of Political Sciences), University of Bologna (Italy).
- 2004/05 – 2013/14 (with on-leave suspension between 2010/11 – 2012/13): “Economia dell’Impresa e dell’Innovazione (Economics of the firm and innovation)”, Corsi di Laurea Specialistica in Giurisprudenza, Facoltà di Giurisprudenza (Master Degree in Law, Faculty of Law) and in Cooperazione e Sviluppo Locale ed Internazionale, Facoltà di Scienze Politiche, di Giurisprudenza e di Statistica (Master Degree in Cooperation and Local and International Development, Faculties of Political Sciences, of Law and of Statistics), University of Bologna (Italy) [Theses: 5].

*ii) Teaching modules (and theses supervised) in undergraduate courses: bachelors (Italian)*

- 2017/18 – 2018/19: “Economia dell’impresa e dei contratti (Economics of the firm and contracts)”, Corso di Laurea Magistrale in Giurisprudenza, Facoltà di Scienze Economiche e Giuridiche (Bachelor in Law, Faculty of Economics and Law), Kore University of Enna (Italy).
- 2014/15 – 2018/19: “Politica Economica (Economic Policy)”, Corso di Laurea in Economia Aziendale, Facoltà di Scienze Economiche e Giuridiche (Bachelor in Business Economics, Faculty of Economics and Law), Kore University of Enna (Italy) [Theses: 11]

- 2015/16 – 2018/19: “Economia Industriale (Industrial Economics)”, Corso di Laurea in Economia Aziendale, Facoltà di Scienze Economiche e Giuridiche (Bachelor in Business Economics, Faculty of Economics and Law), Kore University of Enna (Italy) [Theses: 7].
- 2015/16: “Economia Applicata (Applied Economics)”, Corso di Laurea Specialistica in Economia e Direzione Aziendale, Facoltà di Scienze Economiche e Giuridiche (MA in Business Economics and Management, Faculty of Economics and Law), Kore University of Enna (Italy).
- 2006/07 – 2013/14 (with on-leave suspension between 2010/11 – 2012/13): “Economia Politica (Economics)”, Corso di Laurea Magistrale in Giurisprudenza, Facoltà di Giurisprudenza (Bachelor Degree in Law, Faculty of Law), University of Bologna (Italy) [Thesis: 1].
- 2001/02 – 2013/14 (with on-leave suspension between 2010/11 – 2012/13): “Strategie e Gestione delle Imprese (Business strategies)”, Corso di Laurea triennale in Operatore Giuridico d'Impresa/Giuristi d'Impresa e delle Pubbliche Amministrazioni, Facoltà di Giurisprudenza (Bachelor Degree for Firm Legal Consultants, Faculty of Law) and in Consulente del Lavoro, Facoltà di Giurisprudenza (Bachelor Degree for Labour Consultants, Faculty of Law), University of Bologna (Italy) [Theses: 27].
- 1999/00 – 2006/07: “Economia Politica (Economics)”, Corso di Laurea in Scienze Giuridiche, Facoltà di Giurisprudenza (Bachelor Degree in Legal Studies, Faculty of Law), University of Bologna (Italy) [Theses: 1].

*Supervision of doctoral students*

*In progress*

Roy Mathew: “The Geography of the Twin (green & digital) Transition”, National PhD Program in Sustainable Development and Climate Change, administrated by IUSS Pavia (Italy).

Date of beginning: December 2022.

Francesco Lelli: “Essays on the geography of green start-ups”, Doctoral Program in Doctoral Program in Regional Science and Economic Geography, Gran Sasso Science Institute (GSSI) of L’Aquila, Italy; In-progress;

Date of beginning: November 2020 (co-supervision).

Francesca Mazzoni: “The Geography of the Circular Economy”, Doctoral Program in Urban Studies and Regional Science, Gran Sasso Science Institute (GSSI) of L’Aquila, Italy; In-progress;

Date of beginning: November 2020 (co-supervision).

Adelia Fatikhova: “Essays on Energy Efficiency policies and Regional Economic Performance”, Doctoral Program in Urban Studies and Regional Science, Gran Sasso Science Institute (GSSI) of L’Aquila, Italy; In-progress;

Date of beginning: November 2019 (co-supervision).

Leonardo Vargiu: “An assessment of the regional socio-economic impact of the European research infrastructures policy”, Doctoral Program in Urban Studies and Regional Science, Gran Sasso Science Institute (GSSI) of L’Aquila, Italy; In-progress;

Date of Beginning: November 2018 (co-supervision).



*Completed:*

Francesca Ghinami: “Frictions and Proximities in Factors (Mis)Allocation among cities”, Doctoral Program in Urban Studies and Regional Science, Gran Sasso Science Institute (GSSI) of L’Aquila, Italy;

Date of discussion: October 2023 (co-supervision).

Marcella Miracolini: “Economic and Legal Instruments to deal with Firm Crisis”, Doctoral Program in Economics, Business and Law, Kore University of Enna, Italy;

Date of discussion: May 2019 (co-supervision).

Annamaria D’Ambrosio: “Immigrants and Knowledge Sharing within Industrial Districts: A Comparative Investigation of Italy and Spain”; International Doctoral Program in Local Development and Global Dynamics, University of Trento, Italy;

Date of discussion: April 2015. Job-placement: Tenure Track Researcher at the Polytechnic University of Turin (Italy).

Claudia Ghisetti: “The Interactive Drivers of Eco-innovations. An Investigation at Different Levels of Analysis”; Doctoral Program in Law & Economics, University of Bologna, Faculty of Law, Italy;

Date of discussion: June 2014. Job-placement: Tenure Track Researcher at the Bicocca University of Milan (Italy).

Alberto Marzucchi: “Evaluating the Additionality of Innovation Policy. An Investigation at Different Levels of Analysis”; International Doctoral Program in Local Development and Global Dynamics, University of Trento, Italy;

Date of discussion: 10/2012; Job-placement: Associate Professor at the GSSI of L’Aquila (Italy).

Chiara Franco: “Productivity Spillovers and Foreign Direct Investments (FDI): Theoretical and Empirical Issues at Different Levels of Analysis”; Doctoral Program in Law & Economics, University of Bologna, Faculty of Law, Italy;

Date of discussion: 10/2009; Job-placement: Associate Professor at the University of Pisa (Italy)

Claudia Tronconi: “Intangible Resources and Organization Capital: Measurement and Economic Evaluation”; Doctoral Program in Law & Economics, University of Bologna, Faculty of Law, Italy;

Date of discussion: 10/2008; Job-placement: Business analyst for Siemens Ltd (New York, US).

*Examination of doctoral students (as member of PhD Viva committees or as Opponent  
Discussant in the final seminar)*

Artur Miguel Pinheiro Hargreaves Santoalha: “Technological Diversification in European Regions” (TIK, University of Oslo), Date of the final seminar: 27/8/2019.

Jasmine Mondolo: “The relationship between inward FDI and domestic institutions”, Doctoral Program in Economics and Management (University of Padua), Date of Discussion: 18/2/2019.

Chiara Pollio: “L’industria dell’auto in Cina e nei Paesi emergenti dell’Asia Orientale”, Doctoral Program in Economics (University of Ferrara, Italy), Date of Discussion: 15/04/2016.

Silvestri Francesco: “Municipal Waste Economics in Europe Market structure, empirical insights, and innovation, Doctoral Program in Economics (University of Ferrara, Italy), Date of Discussion: 15/04/2016.

Andrea Rosalinde Hofer: “Innovation in new small firms - the case of Berlin”, Doctoral Program in Local Development and Global Dynamics (University of Trento, Italy), Date of Discussion: 24/04/2015.

Jamilya Jeenbaeva: “Green enterprise workers' participation: the case of China”, Doctoral Program in Local Development and Global Dynamics (University of Trento); Date of Discussion: 24/04/2015.

Marianna Gilli: “Linking emissions, innovation and competitiveness. The European path towards sustainability”, Doctoral Program in Economics (University of Ferrara, Italy), Date of Discussion: 10/04/2015.

Seyed Mostafa H. Deldoost: “Macroeconomic impact of CO2 tax on Italian Economy”, Doctoral Program in Economics (University of Ferrara, Italy), Date of Discussion: 10/04/2015.

Mery Patricia Tamayo: “R&D Services Offshoring by Spanish Firms”, Doctoral Program in Applied Economics (Universidad Computense de Madrid), Date of Discussion: 10/12/2013.

#### *Participation to Doctoral Teaching Committees*

- 2022/23 at present (Cycle XXXVIII): National Doctoral Program in “Sustainable Development and Climate Change”, IUSS Pavia (Italy, Coordinator University).

- 2019/20 at present (Cycles XXXVI, XXXVII, XXXVIII): Doctoral Program in “Regional Science and Economic Geography”, GSSI (Italy).

- 2015/16 at present (Cycles XXXIII, XXXIV, XXXV): Doctoral Program in “Economics, Business and Law”; Kore University of Enna (Italy).

- 2013/14 – 2014/15: Doctoral Program in “European Law”, curriculum in “European Law and Economics”; University of Bologna (Italy).

- 2010/11 – 2012/13: International Doctoral Program in “Local Development and Global Dynamics”; University of Trento (Italy) (in partnership with the Universities of Bologna (Italy), Corvinus (Hungary), Deusto (Spain), Freiburg (Germany) Ljubljana (Slovenia), Manchester (UK), North Carolina (US), and Regensburg (Germany).

- 2008/09 - 2009/10: Doctoral Program in “Economic Law and Industrial Relations”, curriculum in “Law & Economics”; University of Bologna (Faculty of Law), Italy.

2005/06 - 2008/09: Doctoral Program in “Law & Economics”; University of Bologna (Faculty of Law), Italy.

## OUTREACH AND PUBLIC ENGAGEMENT ACTIVITIES

- 19/10/2023: Organization and participation to the outreach event of the PRO3 Research Project “Dialogues on the Twin Transition”, open to the participants of the Annual Scientific Meeting of the Italian Society of Economics; GSSI, L’Aquila (Italy).
- 24/05/2023: Guest speech on the “Twin Transition: opportunities and challenges for firms” within the Networking Day 2023 of the private technological broker CRIT, open to managers and CEOs of CRIT associated companies; Sacmi Group, Imola (Italy).
- 23/02/2023: Speech on the “Impacts and evaluation of public financing to research and knowledge transfer”, within the Master in Intellectual Property Valorisation for Knowledge Exchange and Impact (KEI, Netval, Unibo and UIBM), open to knowledge transfer officers of Italian universities and research institutions; GSSI, L’Aquila (Italy).
- 22/09/2021: Guest speech within the REMTECH EXPO Fair on “Circular Economy: research, development and sustainable growth”, open to Fair participants; Fair Center of Ferrara, Ferrara (Italy).
- 12/2016: Involvement in the proposal for a *Contamination Lab at the Kore University of Enna* (Italian Ministry of University and Research), aiming at “contaminating” its graduates with local private and public firms and institutions; University of Enna, Enna (Italy).
- 7/2015 – 11/2015: Involvement in the *Fondazione Edison* Cycle of Conferences on Innovation, Institutions and Economy during *Expo 2015*; Edison, Milan (Italy).
- 1/2013 – 15/2015: Involvement in the *Workshops of the HerAcademy, Corporate University of the HERA Group*; Hera Group, Bologna (Italy);
- 10/2011 – 10/2013: Involvement in the public dissemination of the research activities and outcomes of the *Institute of Prospective Technological Studies* (IPTS), JRC, European Commission; Seville (Spain).
- 10/2009 - 10/2011: Involvement in the activities for the development of a business culture organised by the *Association of Craft Firms of Ravenna* (Italy).