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CONTACTS

Dipartimento di Economia e Finanza
Università Cattolica del Sacro Cuore
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Bocconi University
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CURRENT POSITIONS

Associate Professor of Economics, Department of Economics and Finance Università Cattolica del Sacro Cuore (UCSC)

Director, MSc. in Economics (LM), UCSC

Research Affiliate, ICRIOS (Center for Research on Innovation and Organization Studies), Bocconi University

EXPERIENCE

UCSC, Department of Economics and Finance
Assistant Professor of Economics, 2011-2015

Bocconi University, Department of Management and Technology
Assistant Professor of Applied Economics, 2010-2011

Bocconi University, Department of Economics
Assistant Professor of Applied Economics, 2003-2010
Post Doctoral Research Fellow, 2000 – 2003

Bocconi University, CRIOS-KITeS-CESPRI
Research Fellow, 1999-2013

PROFESSIONAL QUALIFICATIONS

Italian Full Professorship Qualification in *Economic Policy* (13-A2), December 23, 2014

EDUCATION

Ph.D. in Economics, London School of Economics, 2004

Dottorato in Economia Politica, Università degli Studi di Siena, 2000

MSc. in Economics, London School of Economics, 1997

Degree in Economics (Laurea in Discipline Economiche e Sociali), Bocconi University, 1995

RESEARCH INTERESTS

Economics of innovation, Applied econometrics, International trade, Industrial organization

PUBLICATIONS

REFEREED JOURNAL ARTICLES

- “Innovation and export in SMEs: the role of relationship banking.” (with S. Frazzoni, Z. Rotondi, M. Sobrero and A. Vezzulli), *Economica*, vol. 85, n.337, 2018, pp. 177-204, DOI: 10.1111/ecca.12252
- “R&D investments, Financing Constraints, Exporting and Productivity” (with C. Altomonte, S. Gamba and A. Vezzulli), *Economics of Innovation and New Technology*, vol. 25, n.3, 2016, pp. 283-303. DOI: 10.1080/10438599.2015.1076203
- “R&D and Credit Rationing in SMEs” (with A. Vezzulli), *Economic Inquiry*, vol 52, n. 3, 2014, pp. 1153-1172. DOI: 10.1111/ecin.12080
- “Knowledge-Intensive Entrepreneurship: Sectoral Patterns in a Sample of European High-Tech Firms” (with S. Breschi, C. Lenzi and F. Malerba), *Technology Analysis and Strategic Management*, vol. 27, n. 7, 2014, pp. 751-764. DOI 10.1080/09537325.2014.886683
- “Innovation, international R&D spillovers and the sectoral heterogeneity of knowledge flows” (with F. Malerba and F. Montobbio), *Review of World Economics*, vol. 149, n. 4, 2013, pp. 697-722. DOI: 10.1007/s10290-013-0167-0
- “National Externalities and Path Dependence in Technological Change: An Empirical Test”, *Economica*, Vol. 79, Issue 314, 2012, pp. 329-349. DOI: 10.1111/j.1468-0335.2011.00893.x
- “Innovation, profitability and growth in medium- and high-tech manufacturing industries: Evidence from Italy” (with C. Cozza, F. Malerba, G. Perani and A. Vezzulli), *Applied Economics*, Vol. 44, n. 15, 2012, pp. 1963-1976. DOI: 10.1080/00036846.2011.556594
- “Globalisation of Production and Innovation: How Outsourcing is Reshaping an Advanced Manufacturing Area” (with L. Cusmano and A. Morrison), *Regional Studies*, vol 44, n. 3, 2010. DOI: 10.1080/00343400802360451
- “Imprenditorialità e nascita di nuove imprese innovative in Europa: un’analisi delle determinanti in alcuni settori ad alta tecnologia” (with C. Lenzi), *Economia e Politica Industriale* 1-2009. DOI: 10.3280/POLI2009-001006
- “Innovation and the geographical and functional dimensions of outsourcing: An empirical investigation based on Italian firm level data” (with L. Cusmano and A. Morrison), *Structural Change and Economic Dynamics*, vol. 20, n. 3, 2009. DOI: 10.1016/j.strueco.2009.02.001
- “International Spillovers and Absorptive Capacity: A Cross-Country Cross-Sector Analysis Based on Patents and Citations”, *Journal of International Economics*, vol. 76, n. 2, December 2008. DOI: 10.1016/j.jinteco.2008.06.007
- “Dinamica e Determinanti della Specializzazione Tecnologica Internazionale” (with F. Montobbio), *L’Industria*, 1-2006. DOI: 10.1430/21816
- “Geographical Concentration and the Dynamics of Country Specialization in Technologies”, *Economics of Innovation and New Technology*, vol. 12, n. 3, April 2003. DOI: 10.1080/1043859022000000817
- “Technological Specialization in Industrial Countries: Patterns and Dynamics”, *Weltwirtschaftliches Archiv*, vol. 137, n. 4, December 2001. DOI: 10.1007/BF02707425

CHAPTERS IN BOOKS, REPORTS AND OTHER PUBLICATIONS

“Offshoring, immigration and the labour market: a micro-level perspective” (with D. Castellani, G. Santangelo and A. Zanfei), *Journal of Industrial and Business Economics*, Editorial for the special section on “Offshoring and the labour market”, April 2015. DOI 10.1007/s40812-015-0009-2

“Exploring the links between offshoring and innovation” (with D. Castellani, G. Santangelo and A. Zanfei), *Journal of Industrial and Business Economics*, Editorial for the special section on “Offshoring and Innovation”, January 2015. DOI 10.1007/s40812-014-0008-8

“Esportazioni, innovazione e relazioni banca-impresa”, in Osservatorio Monetario, n. 3, 2013. ISSN: 1592-5684

“Più fondi all’innovazione per le nostre imprese”, Vita e Pensiero, n. 6, 2013, ISSN 0042-725X

“Relationship with banks and access to credit for innovation and internationalization in SMEs” (with Vezzulli A., Frazzoni S., Rotondi Z., Sobrero M.), in Bracchi G. and Masciandaro D. (Eds.), *L’EUROPA E OLTRE. Banche e imprese nella nuova globalizzazione*, XVI Rapporto sul sistema finanziario italiano, Bancaria Editrice, 2011. ISBN: 978-88-449-0495-1

“New Innovators and Knowledge-Based Entrepreneurship: A field analysis” (with Lenzi C., Bishop K., Breschi S., Buenstorf G., Llerena P., Malerba F., McKelvey M.), in Malerba F. (Ed.), “Knowledge-Intensive Entrepreneurship and Innovation Systems: Evidence from Europe”, Routledge, London, 2010. ISBN-13: 978-0415745246

“Survival of Innovative Entrants in Knowledge Based Sectors: Some Preliminary Results” (with S. Breschi and F. Malerba), in Malerba F. (Ed.), “Knowledge-Intensive Entrepreneurship and Innovation Systems: Evidence from Europe”, Routledge, London, 2010. ISBN-13: 978-0415745246

“La riorganizzazione del sistema industriale italiano tra outsourcing locale e delocalizzazione internazionale: il caso di un’area manifatturiera matura” (with L. Cusmano and A. Morrison), in L. Rondi and F. Silva (eds.) “Produttività e cambiamento nel Sistema Produttivo Italiano – Indagini Quantitative”, Il Mulino, 2009. ISBN 978-88-15-13284-0

“Il modello italiano di specializzazione tecnologica: un’analisi basata sui brevetti europei” (with S. Breschi), in D. Archibugi and G. Imperatori (eds.) “Economia globale e innovazione: la sfida dell’industria italiana”, Donzelli Editore, Roma, 1997. ISBN-13: 978-8879893121

PAPERS UNDER REVIEW

“Financial constraints and public funding for eco-innovation: Empirical evidence on European SMEs” (with G. Cecere and N. Corrocher), Dipartimento di Economia e Finanza (UCSC) WP 46, 2016 (presented at the workshop “The Governance of a Complex World: Smart, Sustainable and Inclusive Growth”, Turin, 18-20 June 2014), *Re&R*

“Transition Towards a Green Economy in Europe: Innovation and Knowledge Integration in the Renewable Energy Sector” (with C. Conti, F.Sanna-Randaccio, R. Sestini, E. Verdolini), *FEEM WP* 2016.071, 2016 (presented at Conference on Economics of innovation, diffusion, growth and the environment, London 2015; EIBA 2015; IFKAD 2015; SIE 2015, Concord 2017), *Re&R*

OTHER WORKING PAPERS

“Innovation and Entry in the Pharmaceutical Industry” (with M.L. Giorgetti), *DEMM Working Paper* 2016-02, 2016, Dipartimento di Economia, Management e Metodi Quantitativi, Università degli Studi di Milano (presented at SIE 2015, IIOC 2013, CRESSE 2013, EARIE 2014, the

EIEF-Unibo-IGIER Fourth Workshop in Industrial Organization)

“Innovation and the International Fragmentation of Production: complements or substitutes?” (with G. Felice and L. Tajoli), *mimeo* 2015 (presented at ETSG 2015)

“R&D and Credit Rationing over the Credit Cycle” (with A. Vezzulli), *mimeo* 2015 (presented at XII Workshop SIEPI 2014, IO Workshop Theory, Empirics and Experiments 2014, EARIE 2014)

PARTICIPATION TO NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

“Offshoring di produzione, R&S e conoscenza: analisi ed implicazioni per l'Italia” (2011-2013), MIUR, Progetti di Ricerca di Interesse Nazionale (PRIN 2009) - 2009KEKA5W.

“Advancing Knowledge-Intensive entrepreneurship and Innovation for Economic Growth and Social Well-being in Europe” (2009-2011), European Commission, Seventh Framework Programme, Project no. 225134.

“Analisi dell'export lombardo e suo impatto sulla competitività” (2009), IReR (Istituto Regionale di Ricerca della Lombardia), IReR 2009A006

“L'approvvigionamento internazionale di conoscenza: criticità organizzative ed effetti di sistema” (2008-2010), MIUR, Progetti di Ricerca di Interesse Nazionale (PRIN 2007) - 2007CFABCS.

“Ricerca ed imprenditorialità nella società della conoscenza: effetti sulla competitività dell'Italia in Europa” (2005-2009), MIUR, Fondo per gli Investimenti per la Ricerca di Base (FIRB) – RBNE039XKA.

“Knowledge-Based Entrepreneurship: Innovation, Networks and Systems (KEINS)” (2004-2007), European Commission, Sixth Framework Programme, Priority 7 - Citizens and Governance in a Knowledge-Based Society - Contract CIT2-CT-2004-506022.

“Survey sulle imprese e sulla struttura economica lombarda” (2004-2005), IReR 2004A013

RESEARCH PRESENTATIONS

2018: 4th Geography of Innovation Conference (GeoInno2018), Barcellona. **2017:** 6th European Conference on Corporate R&D and Innovation (ConcodI 2017), Seville. **2015:** Paris Environmental and Energy Economics Seminar (Paris School of Economics), *invited seminar*; EU-SPRI Conference, Bergamo. **2014:** XII Workshop SIEPI, Napoli; IRIMA Workshop on the Internationalisation of Corporate R&D and Innovation, Bruxelles (*invited discussion*); IO Workshop Theory, Empirics and Experiments, Alberobello; Italian Trade Study Group, Cagliari; EARIE 2014, Milano; SIE 2014, Trento; EIEF-Unibo-IGIER Fourth Workshop in Industrial Organization, Bologna. **2013:** ICEE, Fifth Italian Congress of Econometrics and Empirical Economics, Genova; International Industrial Organization Conference, Boston; 8th International Conference on Competition and Regulation (CRESSE), Corfu; AIDEA Bicentenary Conference – Track 6: Banking and Finance, Lecce; CONCORD 2013, Conference on corporate R&D, Seville. **2012:** Global Challenges Research Seminar Series, Bocconi University (*invited seminar*); EARIE 2012, Conference of the European Association of Research in Industrial Economics, Rome. **2011:** Imperial College, London (*invited seminar*); University of Siena (*invited seminar*); 2nd Workshop ‘Industrial Organization: Theory, Empirics and Experiments’, Otranto; EARIE 2011, Stockholm; CONCORD 2011, Conference on corporate R&D, Seville. **2010:** Politecnico di Torino (*invited seminar*); Università di Valencia (*invited seminar*); Universidad Autonoma de Barcelona (*invited seminar*); Ecole Polytechnique – Paris (*invited seminar*); International Industrial

Organization Conference, Vancouver; CONCORD 2010, Conference on corporate R&D, Seville; EARIE 2010, Istanbul; XXV Jornadas de Economía Industrial, Madrid; Convegno della Società Italiana degli Economisti, Catania; Invited speaker: “Outsourcing della ricerca industriale: Problematiche e potenzialità della ricerca affidata a terzi (in Italia, all'estero, importata)”, AIRI, Roma. **2009**: BITE Project Workshop “Barriers to Entry, Internationalisation and Technology”, Norwegian Institute of International Affairs, University of Oslo, Oslo; XXXIII Convegno Annuale di Economia e Politica Industriale, Ferrara; XXIV Jornadas de Economía Industrial, Vigo; Conference on Research and Entrepreneurship in the Knowledge-Based Economy, Milano; EARIE 2009, Lubiana. **2007**: CRENOS, Università di Cagliari (*invited seminar*); CONCORD 2007, Knowledge for Growth: Role and Dynamics of Corporate R&D, First European Conference (European Commission), Seville; Keins-Dime International Conference on Knowledge Based Entrepreneurship: Innovation, Networks, and Systems – Milano; Workshop “L'Italia nella competizione tecnologica internazionale”, Università Roma Tre; **2006**: EARIE 2006, Amsterdam, 2006; 11th International Schumpeter Society Conference, “Innovation, Competition and Growth: Schumpeterian Perspectives”, Nice; **2005**: First Italian Congress of Econometrics and Empirical Economics, Venezia; **2004**: Dipartimento di Economia, Università di Brescia (*invited seminar*); 45° Riunione Scientifica Annuale della Società Italiana degli Economisti, Bologna; EARIE 2004, Berlin; Annual Congress of the European Economic Association (EEA), Madrid; 10th International Schumpeter Society Conference, “Innovation, Industrial Dynamics and Structural Transformation: Schumpeterian Legacies”, Milano; Annual Meeting of the American Economic Association (AEA), San Diego; **2003**: CEPN, Université Paris 13, Paris, 2003 (*invited seminar*); Dynamics, Economic Growth, and International Trade (DEGIT VIII), Helsinki; **2002**: European Meeting of the Econometric Society (ESEM), Venezia; **2001**: Nelson and Winter Conference, Aalborg; Spring Meeting of the Young Economists (SMYE), Copenhagen; **2000**: Annual Congress of the European Economic Association (EEA), Bolzano; Evolution of specialization patterns (CNR), Università C. Cattaneo

REFEREE FOR

Economia e Politica Industriale, Economica, Economics of Innovation and New Technology, Economic Inquiry, Energy Economics, Industrial and Corporate Change, Industry and Innovation, International Journal of Management Reviews, International Review of Economics and Finance, Journal of Applied Econometrics, Journal of Business and Economic Statistics, Journal of Economic Surveys, Journal of Evolutionary Economics, L'Industria, Oxford Economic Papers, Regional Science and Urban Economics, Regional Studies, Research Policy, Review of Industrial Organization, Small Business Economics, Southern Economic Journal, Weltwirtschaftliches Archiv (Review of World Economics)

TEACHING

Graduate:

Empirical Economics-Econometrics(in English; Master, UCSC), since 2014
Innovation, Trademarks and Intellectual Property (Master, UCSC), since 2011
Microeconometrics – Tutorials (in English; PhD, UCSC), 2012-2015
Political Economy of the European Union (in English; Master, UCSC), 2012-2015
Econometric Analysis – Microeconometrics (*in English*; Master, Bocconi), 2013
Innovation, competition and growth (*in English*; Master, Bocconi), 2008-2011
Managerial Economics (Master in Business Strategy, Bocconi), 2002-2004
Development Economics (Master, Università degli Studi di Parma), 2010

Undergraduate:

Econometrics (Bocconi), 2002-2013

Microeconomics, Bocconi 1999-2011; UCSC since 2016

Industrial Organization (*in English*; Bocconi), 2003-2005

Economics of Innovation and Industrial Dynamics (*in English*; Bocconi), 2003

Microeconomics – TA (London School of Economics), 1997-1998

Jean Monnet Seminar series on European Innovation and Competitiveness, Università di Catania, January 2010 (*invited lecture*)

European Summer School in Industrial Dynamics, Institut d'etudes scientifiques de Cargèse, September 2002

OTHER PROFESSIONAL ACTIVITIES

Seminar series organization:

Department seminar series, Department of Economics and Finance, UCSC, 2013-2016

Research Seminar Series on “Global Challenges” (Bocconi-Cattolica-UniMi), 2012-2015

KITeS seminar series, 2009-2010

Cespri seminar series, 2007-2008

Conferences and Workshops Organization

Workshop on “Global Challenges”, Università Milano-Bicocca (Milano), June 23, 2014

International Workshop on “Production, R&D and Knowledge Offshoring: Economic Analyses and Policy Implications”, Bocconi University, Milano, September 24-25, 2013 (local organizer and scientific committee)

International Conference “Research and entrepreneurship in the knowledge-based economy”, Bocconi University, Milano, September 7-8, 2009 (local organizer and scientific committee)

Second Workshop “Ricerca ed imprenditorialità nella società della conoscenza: effetti sulla competitività dell'Italia in Europa”, Università di Pavia, October 8, 2007 (co-organizer)

First Workshop “Ricerca ed imprenditorialità nella società della conoscenza: effetti sulla competitività dell'Italia in Europa”, ISSIRFA CNR (Roma), October 19-20, 2006 (co-organizer)

Editorial services

Co-Editor, Special issue sections on “Production, R&D and knowledge offshoring”, *Economia e Politica Industriale - Journal of Industrial and Business Economics (JIBE)*, 2015

AWARDS

“Best paper award”, 6th European Conference on Corporate R&D and Innovation, 2017

“Premio alla ricerca”, UCSC 2012, 2013, 2014, 2015, 2016, 2017

“Premio di Eccellenza nella ricerca”, Bocconi University, 2009

“Young Economists’ Essay Award”, European Association of Research in Industrial Economics (EARIE), 2004

LANGUAGES

Italian (native), English (proficient)