

# GIACOMO CALZOLARI

## CURRICULUM VITAE

From Sept. 2018: European University Institute, Florence Italy,  
(on leave University of Bologna, Department of Statistics, Italy)

Webpage

<https://sites.google.com/view/giacomo-calzolari>

<https://www.eui.eu/DepartmentsAndCentres/Economics/People/Professors/Calzolari>

Email [giacocalzolari@gmail.com](mailto:giacocalzolari@gmail.com), giacomo.calzolari@eui.eu

Research Fellow, Centre for Economic Policy Research CEPR London, UK.

Associate Scholar, Toulouse School of Economics, France.

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### Personal Details

Marital status: married, with three children

Nationality: Italian

Born: August 5<sup>th</sup>, 1969

Residence: Bologna (Italy)

Languages: Italian (native), English (fluent), French (fluent)

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### Employment

From Sept. 2018-: European University Institute (Florence)

University of Bologna 2000-

Visiting professor Boston University 2013-2014

Visiting professor Shanghai University of Economics and Finance November 2015

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### Education

2000: Ph.D. in Economics, University of Toulouse, thesis: "Essays of Information Economics" (Supervisor Prof. Jean-Charles Rochet)

1998: Diplôme Européenne d'Economie Quantitative Approfondie (Master in advanced economics), University of Toulouse

1998: Doctorate degree in Economics, University of Bologna, Italy

1994: Laurea (B.A.) in Economics, University of Bologna (Summa cum laude)

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## Research Interests

Industrial Organization, Competition Policy, Artificial Intelligence, Digital Markets, Auctions and Procurement, Economics of Regulation, Banking, Banking Regulation and supervision, Experiments and Behavioral Economics, Mechanism Design, Incentives and Contract Theory, Information Economics.

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## Publications

- [Protecting consumers from collusive prices due to AI](#), 2020, with E. Calvano, V. Denicolò, J. Harrington, S. Pastorello. Nov 27, 2020, *SCIENCE*, cover featured article.
- [Artificial Intelligence, Algorithmic Pricing and Collusion](#), with E. Calvano, V. Denicolò and S. Pastorello, Oct. 2020, *AMERICAN ECONOMIC REVIEW*  
Media Coverage: [\[Wall Street Journal\]](#) [\[US National Public Radio\]](#) [\[Popular mechanics\]](#) [\[Le Monde\]](#) [\[MIT tech review\]](#) [\[Financial Times\]](#) [\[VOXEU column\]](#) [\[Oxford Business law blog\]](#) [\[MachineByte UK\]](#) [\[Canadian Public Radio: listen!\]](#) [\[DAS Profil - Austria\]](#)
- [Loyalty discounts and price-cost tests](#), 2020, with V. Denicolò, *INTERNATIONAL JOURNAL OF INDUSTRIAL ORGANIZATION*.
- [Exclusive contracts with costly rent extraction](#), with V. Denicolò and P. Zanchettin, 2020, *RAND JOURNAL OF ECONOMICS*.
- [Growth prospects for small and medium enterprises](#), 2019, with Giorgio Barba Navaretti, Gianmarco Ottaviano and Alberto Franco Pozzolo, in “Capital Market Union and Beyond,” Editors: Franklin Allen, Ester Faia, Michael Haliassos, Katja Langenbacher, MIT Press.
- [Bank size and financial cross-border linkages](#), 2019, with G. Barba Navaretti, A. Pozzolo, M. Trentinaglia, forthcoming *JOURNAL OF FINANCIAL SERVICES RESEARCH*.
- [Algorithmic Pricing: What Implications for Competition Policy?](#) with E. Calvano, V. Denicolò, S. Pastorello, *REVIEW OF INDUSTRIAL ORGANIZATION* 2019.
- [Multinational Banks and Supranational Supervision](#), with G. Loranth and Jean-Edouard Colliard 2019 *REVIEW OF FINANCIAL STUDIES*  
Media coverage: *The Banker* 2019.
- [Carbon is forever: A climate change experiment on cooperation](#) with R. Ghidoni, M. Casari, 2018 *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*
- [What is in a \(IP\) Box: Patents or Secrets?](#) *ECONOMIC POLICY* 2018

- [Climate change: Behavioral responses from extreme events and delayed damages](#), 2017, with M. Casari and R. Ghidoni 2017 ENERGY ECONOMICS
- [Inelastic Buyers and Competition](#), with A. Ichino, F. Manaresi, V. Nellas 2017, ECONOMIC JOURNAL  
Media coverage: The Economist 2018.
- [Effective Reminders](#), with M. Nardotto, 2016 MANAGEMENT SCIENCE, *Volume 63, Issue 9*
- [Conglomerates and regulation](#), with C. Scarpa, ECONOMIC INQUIRY, Vol. 54, Issue 3, pp. 1648-1669, 2016.
- [Exclusive contracts and market dominance](#), with V. Denicolò AMERICAN ECONOMIC REVIEW 2015, 105(11): 3321–3351
- [Competition with exclusive contracts and market-share discounts](#) with V. Denicolò AMERICAN ECONOMIC REVIEW 2013 103(6): 2384-2411  
  
(Best Paper Award: ACE Association of Competition Economics)
- [Competitive quantity discounts](#), with V. Denicolò, INTERNATIONAL JOURNAL OF INDUSTRIAL ORGANIZATION, Volume 29, Issue 3, May 2011, Pages 337-341
- [Multinational Banking in Europe: Financial Stability and Regulatory Implications Lessons from the Financial Crisis](#) with G. Barba Navaretti,, M. Levi and A. F. Pozzolo, ECONOMIC POLICY, Volume 25, Issue 64, pages 703–753, October 2010
- [On the Regulation of Multinational Banks: a theoretical inquiry](#), with G. Loranth JOURNAL OF FINANCIAL INTERMEDIATION, Volume 20, Issue 2, April 2011, Pages 178-198
- [Truthful Revelation Mechanisms for Simultaneous Common Agency Games](#), with A. Pavan (Northwestern University), AMERICAN ECONOMIC JOURNAL: MICROECONOMICS, Volume 2, Number 2, May 2010 , pp. 132-190(59)
- [Footloose monopolies: regulating a national champion](#), with C. Scarpa, JOURNAL OF ECONOMICS AND MANAGEMENT STRATEGY vol. 18(4), pages 1179-1214, December 2009
- [Sequential Contracting with Multiple Principals](#), with A. Pavan, JOURNAL OF ECONOMIC THEORY, vol. 144(2), pages 503-531, March 2009
- [On the use of menus in sequential common agency](#), with A. Pavan GAMES AND ECONOMIC BEHAVIOR Volume 64, Issue 1, September 2008, Pages 329-334
- [Export restraints in a model of trade with capital accumulation](#), with L. Lambertini JOURNAL OF ECONOMIC DYNAMICS AND CONTROL, Volume 31, Issue 12, December 2007, Pages 3822-3842

- [Monopoly with Resale](#), with A. Pavan, THE RAND JOURNAL OF ECONOMICS, 2006, Volume 37, No. 2
- [On the Optimality of Privacy in Sequential Contracting](#), with A. Pavan, JOURNAL OF ECONOMIC THEORY, 2006, Volume 130, No. 1
- [Hormone Beefs, Chlorinated Chickens and International Trade](#), with G. Immordino, EUROPEAN ECONOMIC REVIEW (when former review of the European Economic Association), 2005, Volume 49, Issue 1, pp: 145-172  
(Winner of the Young Economist Award, EUROPEAN ECONOMIC ASSOCIATION)
- [Incentive Regulation of Multinational Enterprises](#), INTERNATIONAL ECONOMIC REVIEW, Volume 45, Issue 1, February 2004, pp:257-282
- [Theory and practice of regulation facing multinational enterprises](#), JOURNAL OF REGULATORY ECONOMICS, 20 (2):191-211, September 2001
- [Tariffs vs Quotas in a model of trade with capital accumulation](#), with L. Lambertini, (University of Bologna), REVIEW OF INTERNATIONAL ECONOMICS Vol. 14, NO. 4, PP. 632-644, September 2006
- [On the Regulation of Multinational Banks](#), with G. Loranth, in *Rivista di Politica Economica*, n. 91, 2001, also published in *Antitrust, Regulation and Competition: Theory and Practice*, Palgrave (Macmillan-StMartin's Press) Lambertini, L. (2002, ed.)

Papers submitted, Working papers, Work in progress, Sleeping projects (downloadable from the webpage)

- **Algorithmic collusion with imperfect monitoring**, with E. Calvano, V Denicolò and Sergio Pastorello, December 2020.
- **Autonomous algorithmic collusion: Economic research and policy implications**, 2020, with Stephanie Assad, Emilio Calvano, Robert Clark, Vincenzo Denicolò, Daniel Ershov, Justin Johnson, Sergio Pastorello, Andrew Rhodes, Lei Xu, Matthijs Wildenbeest
- **Asset trade, Real investment and a tilting Financial transaction tax**, 2020, with Swarnava Biswas, Fabio Castiglionesi, Tobias Dieler.

- **Exploiting rivals's strengths**, with V. Denicolò, wp 2020.
- **Trade credit and raising rival's prices**, with G. Cestone, V. Denicolò
- **Transparency and Lobbying**, with V. Denicolò
- **Happy Uber? Companies and their workers in the "Gig Economy"**, forthcoming ECONOMIC POLICY
- **On Economic Integration, splitting countries and fishes in the sea**, forthcoming ECONOMIC POLICY
- **Innovation, Competition and Trust: Evidence from German Car Manufacturers**, with L. Felli, J. Koenen, G. Spagnolo, K. Stahl, 2015.
- **Relational Contracts, Procurement Competition, and Supplier Collusion**, 2017, with G. Spagnolo University of Bologna CEPR Submitted
- **On regulation and competition: pros and cons of a diversified monopolist** with C. Scarpa, 2009 WP University of Bologna CEPR
- **Relational Procurement**, 2006, with G. Spagnolo, mimeo, University of Bologna and CONSIP.
- **Regulating a Multiutility Firm**, 2005, with C. Scarpa (University of Brescia), mimeo, University of Bologna.
- **A Markovian Revelation Principle for Common Agency Games**, 2001, with A. Pavan (Northwestern University).
- **Optimal Design of Privacy Policies**, 2000, with A. Pavan (Northwestern University), mimeo, Northwestern University and of Toulouse.
- **Non-intrinsic common agency**, 1999, with C. Scarpa (University of Brescia), ENI-FEEM Nota di lavoro 84.99, under review.
- **Regulation at Home, Competition Abroad: A Theoretical Analysis**, 2000 with C. Scarpa (University of Brescia), ENI-FEEM Nota di lavoro 39.01, under review.
- **Regulatory Competition and Exclusion in an International Context**, with K. Diaw and J. Pouyet. 1999, mimeo, University of Toulouse.
- **Regulation in an international setting, the case of a Multinational Enterprise**, 1998, mimeo, University of Toulouse;

- **A concise survey on Multinational Enterprises**, 1997, l'Universiteè de la Mediterranee, Aix en Provence et Marseille. Workshop "Théorie des organisations et les firmes multinationales".
- **International trade and property rights: a theory of South-North trade**, 1996, ENI-FEEM Nota di lavoro 62.96, 1996.

#### Working papers and work in progress

- **The scope of exclusivity clauses**, 2020, with V. Denicolò.
- **Exploiting rivals' strengths**, 2020, with V. Denicolò.
- **Trade credit and raising rival's prices**, with G. Cestone, V. Denicolò
- **Lobbying, Transparency and Polarization**, with V. Denicolò.
- **Q-learning to cooperate**, 2018, with E. Calvano, V. Denicolò, S. Pastorello, wp.
- **On the use of the as-efficient-competitor test in loyalty discount cases**, with V. Denicolò
- **CO2, where do we stand?** with R. Ghidoni, M. Casari
- **Raising rivals' prices**, with Vincenzo Denicolò
- **Relational common agency**, with Alessandro Pavan
- **Hybrid screening**, with Alessandro Pavan and Vincenzo Denicolò
- **Incentives to invest and exclusivity**, with V. Denicolò

#### Other articles

- **ALGORITHMIC COLLUSION: A REAL PROBLEM FOR COMPETITION POLICY?**. 2020 In COMPETITION POLICY INTERNATIONAL - ISSN:1554-0189 vol. 0, pp1-9, with Emilio Calvano, Vincenzo Denicolò, Sergio Pastorello.
- **What are the wider supervisory implications of the Wirecard case?** with Giorgio Barba Navaretti and Alberto Pozzolo, 2020, Report for the European Parliament.
- [Supranational supervision of multinational banks: A moving target](#), with Jean-Edouard Colliard, Gyöngyi Lóránth, JOURNAL OF FINANCIAL TRANSFORMATION, 2018.
- **Fintech and Banks: friends or foes?** with Giorgio Barba Navaretti, Alberto Pozzolo in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2017-2.

- **Getting rid of NPLs in Europe**, with Giorgio Barba Navaretti, Alberto Pozzolo in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2017-1.
- **Bank Resolution and the Mutualisation of Risk**, with Giorgio Barba Navaretti, Alberto Pozzolo in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2016-2.
- **Bail-in: Limits and work in progress**, with Giorgio Barba Navaretti, Alberto Pozzolo, 12 December 2016 VOXEU
- **Multinational Banks and Supranational Supervision**, with Jean-Edouard Colliard and Gyöngyi Lóránth, 17 Aug 2016, Oxford Business Law Blog
- **Sovereign and banking risk: Completing the union and breaking the loop**, with Giorgio Barba Navaretti, Alberto Pozzolo 15 July 2016 VOXEU
- **"The SSM and Multinational Banks"**, with Jean-Edouard Colliard, Gyöngyi Lóránth, SUERF Conference Proceedings 2016/3
- **Diabolic loop or incomplete union? Sovereign and banking risk**, with Giorgio Barba Navaretti, and Alberto Franco Pozzolo, in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2016-1
- **Needed: A theory of harm for the Intel case**, with Vincenzo Denicolò, VOXEU, 20 January 2016
- **Sand in the wheels: Implementing the Single Supervisory Mechanism and Multinational Banking in Europe**, with Giorgio Barba Navaretti, and Alberto Franco Pozzolo, in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2015-3
- **Is special treatment for SMEs warranted?** with Giorgio Barba Navaretti, and Alberto Franco Pozzolo, in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2015-2.
- **The tangled web: do capital requirements and loss absorption capacity foster a systemic risk free, pro-growth banking environment?** with Giorgio Barba Navaretti, and Alberto Franco Pozzolo, in EUROPEAN ECONOMY, BANKS, REGULATION, AND THE REAL SECTOR, Issue 2015-1.
- **Sovereign and banking risk**, with Giorgio Barba Navaretti, and Alberto Pozzolo, VOXEU, 15 July 2016
- **The Single Supervisory Mechanism and multinational banks**, with Jean-Edouard Colliard, Gyöngyi Lóránth, VOXEU, 30 July 2016
- **How SME funding risk is allocated**, with Giorgio Barba Navaretti, Alberto Pozzolo, VOXEU, 18 November 2015
- **Capital requirements and loss absorption capacity for large banks**, with Giorgio Barba Navaretti, Alberto Pozzolo, VOXEU, 8 July 2015

- **Too big to fail or too small to maintain stability?**, with Giorgio Barba Navaretti, Alberto Pozzolo, Micol Levi, VOXEU, 23 May 2010
- **Multinational banks and European financial integration**, with Giorgio Barba Navaretti, Guido Ferrarini, Alberto Pozzolo, VOXEU, 8 April 2009

### Publications in Italian

- **Intelligenza artificiale e mercati**. AIBA Magazine, 2019.
- **Organismi geneticamente modificati ed incertezza scientifica**, 2000, con G. Immordino, in *Mercato, Concorrenza e Regole*, 2/2001, Il Mulino
- **Gli accordi commerciali preferenziali**, with G. Basevi and G. Ottaviano, online supplement to *Economia internazionale*, P. R. Krugman, M. Obstfeld, Hoepli, 2003, <http://www.liuc.it/krugmanobstfeld/accordi/default.htm>
- **La regolazione del prezzo in presenza di concorrenza estera: uno schema teorico**, with C. Scarpa, in Bulckaen, Cambini eds. *I Servizi di Pubblica Utilità*, 2000, Franco Angeli Editore
- **La regolamentazione delle imprese Multinazionali**, with C. Scarpa, in Bulckaen, Cambini eds. *I Servizi di Pubblica Utilità*, 2000, Franco Angeli Editore.

### Books and chapters

- **Industrial Organization**, by Lynne Pepall, Daniel J. Richards, George Norman, Giacomo Calzolari, 2012, The McGraw-Hill Companies, (co-author of the Italian version)
- **“Separation of selection and award criteria, including exclusion of reputation indicators like references to experience, performance and CV’s from award criteria”** with Chris Bovis in *The Applied Law and Economics of Public Procurement*, 2012 Routledge, Edited by Gustavo Piga, Steen Treumer
- **Teoria e Politica del Commercio Internazionale**, 2001, with G. Ottaviano and G. Basevi, Carocci Editore. Handbook on international trade.
- Contributor to **EIB Investment Report 2018/2019** edition, "Retooling Europe's Economy".

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## Teaching Experience

PhD	2018-	Advanced Industrial Organization
PhD	2018-	Microeconomics



Undergraduate	2000-2003	Microeconomics
Undergraduate	2000-2011	International trade
Undergraduate	2001-2003	Internet and Information Economics
Undergraduate	2003-2018	Industrial Organization
Master	2004-2008	International trade, theory and policy
Master	2010-2018	Game theory
Master	2009-2010	Advanced Industrial Organization and game theory
Master	2017-	Advanced Industrial Organization
Master	2004-2008	Second year student seminar in Economic Theory
PhD	2003-2018	Economics of Regulation and Advanced Industrial Organization
PhD	2009	Behavioral economics: seminar course
Graduate	2004-2010	Contract theory and Mechanism design (graduate)

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## Academic Activity

Scientific Committee for The State of the Union 2020, 2021, European University Institute.

PhD Admission Coordinator EUI 2018-

Director of research activities Department of Economics, University of Bologna 2015-17.

Director of BA international program in Economics and Finance 2014-2017.

Director of the PhD program in Economics, University of Bologna, 2010-2013.

Resident member of the Institute for advanced studies, <http://www.ias.unibo.it> University of Bologna 2013-2018.

Member of the School of Excellence of Alma Mater Studiorum - University of Bologna.

Member of the Academy of Sciences of the Institute of Bologna  
<http://www.accademiascienzebologna.it>.

Chair of Advisory Board for Research, Economics Department University of Verona, 2019-

### Papers presented at invited seminars

European Economic Association various meetings; Econometric Society: European, American and World meetings; ASSET meetings; Auctions and Market Design I, Milan, EARIE and CEPR various meetings, University of Florence, Venice, Padua, Trento, Bocconi University, University of Milan Cattolica, University of Milan Bicocca, University of Salerno, University of Bologna, University of Sassari, University of Bonn, FEEM, University of Groningen, CONSIP, WZB Berlin, London Business School, New York University, Oxford University, University of Tel Aviv, University of Toulouse, University of Rotterdam, Ente Luigi Einaudi Rome, European University Institute, Bergen University, Humboldt University Berlin, Università Autonoma de Barcelona, Bonn University, University of British Columbia, Berkeley University, Cambridge University, University of Chicago, Chicago GSB, ECARES-Brussels, Harvard University, LSE, University of Maryland, University of

Michigan, Minneapolis FRB, NYU Economics, Tilburg University, University of Toronto, University College of London, Universite' Catholique de Leuven, UCLA Columbia University, London School of Economics, Stockholm School of Economics, Said Business School, The Judge Institute, Boston College, University of Istanbul Koç University; Mannheim University, NBER meeting, Spanish Central Bank – Madrid, Sorbonne University Paris, Madrid Carlos III, University of Luxembourg, Stavanger University, Pittsburgh University, MIT, Boston University, University of Montreal, University of Washington (Seattle), Tilburg TILEC, Leicester, Jiao Tong University, Shanghai University of economics and Finance, Luiss University, CREST Paris, Madrid CUNEF, University of Chile, Bocconi University, DG Competition European Commission, University of Leipzig, University of Bern, Bank for International Settlements, Basel Committee for Banking Supervision, University of Zurich and ETH, University of Bozen, University of Bristol Finance. Universidad Carlos III, Berlin IO days 2019, BECCLE Bergen Competition Economics Conference 2019, Swiss IO conference Bern 2019, Paris School of Economics 2019, IMT Lucca 2019, UPF Barcelona, 2019, Federal Trade Communication US, University of St. Gallen, Thema Paris, Bocconi, Bristol Department of Economics, OFCOM UK, University of Southern California, Durham University. University of Cambridge.

#### Editorial Boards and associations

Member of the Steering Committee of ACE, Association of Competition Economics, 2016-2018.

Member of the Executive committee of ACE, Association of Competition Economics, 2017-2018.

Member of the Steering Committee of EARIE, European association for Industrial Economics, 2016-

Panel member ECONOMIC POLICY for Industrial Organization and Competition Policy 2017-2019.

Associate Editor INTERNATIONAL JOURNAL OF INDUSTRIAL ORGANIZATION, 2011-2013

Co-Editor INTERNATIONAL JOURNAL OF INDUSTRIAL ORGANIZATION, 2013-20.

Main Editor INTERNATIONAL JOURNAL OF INDUSTRIAL ORGANIZATION, 2020-

Co-Editor LABOUR: REVIEW OF LABOUR ECONOMICS AND INDUSTRIAL RELATIONS 2015-2020.

Co-Editor EUROPEAN ECONOMY BANKS, REGULATION, AND THE REAL SECTOR 2015-  
<http://european-economy.eu/>

Member of the scientific committee of the *Rivista di politica economica*, 2008-

### Conference organization

Organizer of ACE Association of Competition Economics conference November 2018.

Co-organizer and member of the scientific committee of the FOURTEENTH CEPR/JIE CONFERENCE ON APPLIED INDUSTRIAL ORGANIZATION, Bologna May 2013.

Member of the *Program Committee* for the *Econometric Society* 2006 and 2007, 2017 meetings; ASSET 07, 08 meetings, EARIE 2011-2019, IFABS Global banking 2012-2014, Society for Institutional and Organizational Economics (SIOE) 2017.

2006-2010 member of the Italian Steering Committee of the Italian Association of Competition Economics (ACE).

Founder and co-organizer of the Unibo – EIEF – Bocconi yearly Conference in Industrial Organization, 2011-.

Organizer of the workshop "Competition with non-linear pricing and loyalty discounts" University of Bologna Nov. 2010.

### Regular reviewer for the following academic journals:

American Economic Journal: Microeconomics American Economic Review, Behavioral Science & Policy, Bulletin of Economic Research, Berkeley Electronic Press Journal of Theoretical Economics, B.E. Journal of Economic Analysis & Policy, Canadian Journal of Economics, Econometrica, Economic Inquiry, Economic Journal, Economic Modelling, Economic Policy, *Economia Politica*, Economic Notes, Emerging Markets Finance and Trade, Energy Journal, Energy Economics, European Economic Review, European Journal of Comparative Economics, Games and Economic Behavior, German Economic Review, International Economic Review, International Journal of Industrial Organization, International Journal of Economics and Management, International Review of Economics and Finance, International Tax And Public Finance, Journal of Banking and Finance, Journal of Development Economics, Journal of Economic Behavior and Organization, Journal of Economics and Management Strategy, Journal of Economic Theory, Journal of the European Economic Association, Journal of Financial Stability, Journal of Economic Surveys, Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of International Economics, Journal of Mathematical Economics, Journal of Public Economics, Journal of Public Economic Theory, Journal of Political Economy, Journal of Regulatory Economics, Mathematical Social Science, Management Science, Oxford Economic Papers. Rand Journal of Economics, Review of Economic Dynamics, Research in Economics, Review of Economic Studies, Review of Law and Economics, Rivista Italiana di Economia, Rivista di Politica Economica, Small Business Economics, Theoretical Economics, Review for Economics and Business Letters.

Reviewer for the *National Science Foundation* USA several years, ERC grants European Commission, the Swiss National Science Foundation, the Italian agency for research evaluation ANVUR (VQR1, VQR2), the Romanian National Council for Scientific Research, Social Sciences and Humanities Research Council of Canada, the Netherlands council for scientific research, Open Research Area Plus, National science foundation Kuwait, the Hong Kong National Science Foundation.

Reviewer for Wikipedia invited to comment articles in economics, competition and regulation, 2016.

### Seminar organization

Department of Economics EUI, microeconomics, 2018-

Department of Economics, University of Bologna, lunch and regular seminars organizer, 1999-2002.

Organizer workshop in Experimental Economics and Behavioral Economics at the Department of Economics, University of Bologna, 2002.

### Reports and invited speaker

- June 1999, CEPR report for the Conference on “Psychology and Economics” Toulouse.
- Invited speaker ABLP UBI Bank May 2008 workshop on Federal Banks: “Local information and decentralized decisions in banks”.
- Invited speaker Unicredit forum on banking regulation 2009, 2010.
- Invited speaker to the conference “Contracts, Procurement and Public-Private Agreements, SORBONNE UNIVERSITY, PARIS, Monday 14th and Tuesday 15th, June 2010
- Invited speaker with V. Denicolò at the European Association for Research in Industrial Economics (EARIE), August 2010 Istanbul congress.
- Invited speaker 1<sup>st</sup> INTERDISCIPLINARY SYMPOSIUM ON PUBLIC PROCUREMENT, 2011 Villa Mondragone Rome.
- Invited speaker on Competition and multi-utility firms International Congress of Energy Science and Industry Energi@21, Poznan, May 2015.
- Zurich Workshop in Economics, Keynote Speaker, September 2nd - 4th, 2015, Lucerne, Switzerland
- Round table on “Single Supervision and Cross-Border Banking,” House of Finance, Goethe University, Frankfurt, March 14, 2016
- Invited speaker on round table on Capital Market Union and SMEs, ABI (Associazione Bancaria Italiana), Rome July 2017.
- Invited speaker on “Exclusive dealing,” at the European Commission, DG-Competition, March 2017.
- Round table on “Is there a Way out of Non-Performing Loans in Europe?” Bruegel, Brussels, July 6, 2017.
- Keynote speaker XIII workshop IBEO, Credit and financial frictions, June 2018.
- Keynote speaker at the CCE ECN European Competition Network of competition authorities, annual meeting Lisbon 17th October 2018.

- Invited speaker on Excessive prices, CRA Conference on "Economic Developments in Competition Policy" - Brussels 5 December 2018.
- Keynote speaker Berlin IO days 2019.
- Invited speaker Current Economic Challenges at the basis of Competition Law ASCOLA 2019 Aix-en-Provence
- Invited speaker A EUROPEAN APPROACH TO ARTIFICIAL INTELLIGENCE? Workshop with Margrethe Vestager, 2019.
- Invited speaker BECCLE Conference competition economics Bergen 2019.
- Keynote speaker Swiss IO days Bern 2019.
- Invited speaker, BRICS Competition Conference 2019, Moscow.
- Keynote speaker, European Competition Policy Forum, October 2019, Lake of Como.
- Invited speaker, Global Challenges Workshop, October 2019, Milan.
- Keynote speaker, British Institute of International and Comparative Law, November 2019, London.
- Invited speaker, The European Approach to Artificial Intelligence, November 2019, Bruegel Brussels.
- Invited speaker, The Impact of Machine Learning and AI on the UK Economy, Conference Bank of England, CEPR, Imperial College, 25 and 26 March 2020, London.
- Invited speaker, 2020 (moved to 2021) OECD/Swiss ComCo/CIPCO Workshop on algorithmic market activity and competition law.
- Invited speaker EARIE conference 2020.
- Invited panel speaker BIS-CEPR Fintech Conference, "Financial innovation: Implications for competition, regulation, and monetary policy", September 2020.
- Invited speaker Oct. 16th 2020, WORKSHOP Artificial Intelligence Lab, Intesa Sanpaolo Innovation Center
- OFCOM seminar on "Loyalty discounts and price-cost tests", Oct. 2020
- Invited speaker Inclusive Competition Forum and the Ada Lovelace Institute, Inspecting algorithms in competition investigations online workshop 7 October 2020.
- Invited speaker, annual conference European Banking Institute, 2021.
- Expert intervention AIDA Committee the European Parliament, Jan. 2021.
- Brussels School of Competition, Jan 2021, Law & AI : Competition and Consumer Protection

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## Grants, Awards, Recognitions and Scholarships

- B.A. Dissertation Prize ANDAF 1994 "Giovanni De Fornaris"
- Scholarship Bonaldo Stringher 1997 Bank of Italy

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- Post-Doc proposal Ente L. Einaudi (Rome), 1999
- Jean Monnet Fellowship proposal European University Institute, 1999
- Mention of Italian Doctorate Thesis from the Italian Economists Society, 1999
- Research Fellowship, Department of Economics, University of Bologna, 1999
- Young Economist Award, European Economic Association, 2000
- Since 2007 research affiliate of CEPR (the Centre for Economic Policy Research) London.
- Since 2014 research fellow CEPR.
- Classified A-top researcher (RFO grants University of Bologna) every year, since first appointment.
- National coordinator for a research project on two-sided markets financed by the Italian Ministry of Research (PRIN 2007).
- 2009 EIEF Einaudi Institute for Economics and Finance Grant for a project on behavioral economics
- 2009 Participant in a FIRB project with other members of the Department funded by the Italian Ministry of Research.
- Prize for research excellence Department of Economics University of Bologna 2013 and 2015.
- Best paper award 2014 Association of Competition Economics ACE (Competition with exclusive contracts and market-share discounts).
- EUI 2020 Research grant €25k.
- EUI 2021 Research grant €25k.

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## Counselling and other activities

Head of research team on Distance Learning technologies and methodologies for MAEM European interuniversity network, 2004.

Reviewer for European Regional Development Fund (ERDF).

Member of the working group for the National Research Authority ANVUR, for the list of academic journals (ASN), 2017-.

**Member of the Economic Advisory Group on Competition Policy (EAGCP) of the European Commission, 2017-.**

Last update, January 2021