

## Paolo Pin

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Dipartimento di Economia Politica e Statistica, Università di Siena, Italy  
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### Academic Career

- 2019-current Professor, Dipartimento di Economia Politica e Statistica, Università di Siena
- 2016-current Fellow, Bocconi Institute for Data Science and Analytics (BIDSA), Università Bocconi,
- 2016-2019 Associate Professor, Department of Decision Sciences, Università Bocconi
- 2016-2019 Fellow of Innocenzo Gasparini Institute for Economic Research (IGIER), Università Bocconi,
- 2008-2016 Ricercatore, Dipartimento di Economia Politica e Statistica, Università di Siena
- 2008-2009 Max Weber Fellowship in Economics, European University Institute (EUI), Florence
- 2007-2008 Post-Doc at the Condensed Matter and Statistical Physics section at ICTP, Trieste, Italy

### Visiting

- 2023 Visiting professor in “Experimental and Behavioral Economics”, at Scuola IMT Alti Studi Lucca, Italy
- 2018 Honorary Appointment at the Business School, University of Technology, Sydney, Australia
- 2014 program “Systemic Risk: Mathematical Modelling and Interdisciplinary Approaches”, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK
- 2013 Department of Economics, Stanford University, USA
- 2012 Fernand Braudel Fellowship, Department of Economics, European University Institute (EUI), Florence, Italy
- 2004-2005 visiting student, Centre for Computational Finance and Economic Agents (CCFEA), University of Essex, UK

### Education

- 2007 PhD in Economics, Università Ca’ Foscari di Venezia
- 2003 Diploma Master in “Modelling and Simulation of Complex Realities” at *Abdus Salam International Centre for Theoretical Physics* (ICTP), Trieste, Italy
- 2002 4 years degree in Mathematics, Università di Siena, Italy



## Research

I mostly work on the economics of social networks, with game theory models, experiments, and the analysis of complex networks.

- My [Scholar Google profile](#) (on August 8<sup>th</sup>, 2024) counts 3078 citations and an h-index of 20 (restricting on citations from 2019 on, they are 1476 citations, with an h-index of 16).
- [Scopus](#) (on August 8<sup>th</sup>, 2024) counts 1271 citations and an h-index of 15.
- The web site <http://ideas.repec.org/> analyses academic performances based only on publications in economics journals, my rank (on August 2024) is: 217 out of 3700 (top 6%) for Italy, 1565 out of 24314 (top 7%) for the European Union, 6552 out of 69018 (top 10%) for the whole world.
- My [Erdős number is 3](#).

My working papers are available at my webpage: <http://www.paolopin.com/>

### Articles in Refereed Journals

- 1) Decentralized Pure Exchange Processes on Networks (2024) with Daniele Cassese, *Social Choice and Welfare*;
- 2) App-based experiments (2023) with Tiziano Rotesi, *Journal of Economic Psychology* 99, 102666;
- 3) Learning and Selfconfirming Equilibria in Network Games (2023) with Pierpaolo Battigalli and Fabrizio Panebianco, *Journal of Economic Theory* 212, 105700;
- 4) Does “network closure” beef up firms’ performance? (2023) with Alessio Muscillo, Tiziano Razzolini and Francesco Serti, *Social Networks* 73, 89-103;
- 5) Debunking rumors in networks (2023) with Luca Merlino and Nicole Tabasso, *American Economic Journal: Microeconomics* 15 (1), 1-32;
- 6) Experimental Methods for Measuring Social Networks without Censoring (2023) with Rebecca Morton, Eleonora Patacchini, Tanya Rosenblat and Jonathan Rogers, *Journal of Experimental Political Science*;
- 7) Information Transmission in a Social Network: A Field Experiment (2023) with Eleonora Patacchini and Tiziano Rotesi, *Journal of Experimental Political Science*;
- 8) Personal risk or societal benefit? Investigating adults’ support for COVID-19 childhood vaccination (2023) with Chiara Chiavenna, Laura Leone, Alessia Melegaro, Tiziano Rotesi, Scott Bokemper, Elliott Paintsil, Aryn Malik, Gregory Huber, Saad Omer and Maria Cucciniello, *Vaccine* 41 (25), 3683-3687;
- 9) Adolescents’ opinions on COVID-19 vaccine hesitancy: hints toward enhancing pandemic preparedness in the future (2023) with Alessio Muscillo, Gabriele Lombardi, Elena Sestini, Francesca Garbin, Vittoradolfo Tambone and Laura Leondina Campanozzi, *Vaccines* 11 (5), 967;
- 10) No-vaxxers are different in public good games (2022) with Marcello Basili and Alessio Muscillo, *Scientific Reports* 12, 18132;
- 11) Efficiency and stability in a process of teams formation (2022) with Leonardo Boncinelli and Alessio Muscillo, *Dynamic Games and Applications*;
- 12) Altruism and Vaccination Intentions: Evidence from Behavioral Experiments (2022) with Maria Cucciniello, Blanka Imre, Alessia Melegaro and Greg Porumbescu, *Social Science & Medicine* 292, 114195;
- 13) Experimental evidence that changing beliefs about mask efficacy and social norms increase mask wearing for COVID-19 risk reduction: Results from the United States and Italy (2021) with Scott E. Bokemper, Maria Cucciniello, Tiziano Rotesi, Aryn A. Malik, Kathryn Willebrand, Elliott E. Paintsil, Saad B. Omer, Gregory A. Huber, Alessia Melegaro, *PLOS ONE* 6 (10): e02582821;
- 14) National interest may require distributing COVID-19 vaccines to other countries (2021) with Tiziano Rotesi, Maria Cucciniello, Aryn A. Malik, Elliott E. Paintsil, Scott E. Bokemper, Kathryn Willebrand, Gregory A. Huber, Alessia Melegaro and Saad B. Omer, *Scientific Reports* 11, 18253;
- 15) Spreading of an infectious disease between different locations (2021) with Alessio Muscillo and Tiziano Razzolini, *Journal of Economic Behavior and Organization* 183, 508-532;

- 16) Link value, market scenario and referral networks (2021) with Yongli Li and Peng Luo, *Journal of Economic Behavior and Organization* 181, 135-155;
- 17) Externalities Aggregation in Network Games (2020), with Francesco Feri, *International Economic Review* 61 (4), 1635-1658;
- 18) Covid19: unless one gets everyone to act, policies may be ineffective or even backfire (2020) with Alessio Muscillo and Tiziano Razzolini, *PLOS ONE* 15 (9): e0237057;
- 19) Bring a friend! Privately or Publicly? (2020), with Elias Carroni and Simone Righi, *Management Science* 66 (5), 2269-2290;
- 20) Utility-Based Model for Characterizing the Evolution of Social Networks (2020), with Yongli Li and Peng Luo, *IEEE Transactions on Systems, Man, and Cybernetics: Systems* 50 (3), 10831094;
- 21) Credibility of climate change denial in social media (2019), with Abhishek Samantray, *Palgrave Communications* 5, article number 127;
- 22) Altruism and the Pressure to Share: Laboratory Evidence from Tanzania (2019) with Salvatore Di Falco, Peter Martinsson and Razack Lokina, *PLOS ONE* 14 (5): e0212747;
- 23) Network-based Risk Measurements for Interbank Systems (2018), with Yongli Li and Guanghe Liu, *PLOS ONE* 13 (7): e0200209;
- 24) The Stochastic Stability of Decentralized Matching on a Graph (2018), with Leonardo Boncinelli, *Games and Economic Behavior* 108, 239-244;
- 25) Ties that Bind: Network Redistributive Pressure and Economic Decisions in Village Economies (2018), with Salvatore Di Falco, Francesco Feri and Xavier Vollenweider, *Journal of Development Economics* 131, 123-131;
- 26) Contagious disruptions and complexity traps in economic development (2017), with Matthew Bonds, Charles Brummitt, Kenan Huremovic and Fernando Vega Redondo, *Nature Human Behaviour* 1, 665672;
- 27) Constrained Mobility and the Evolution of Efficient Outcomes (2017), with Elke Weidenholzer and Simon Weidenholzer, *Journal of Economic Dynamics and Control* 82, 165-175;
- 28) Friendship Network in the Classroom: Parents Bias and Peer Effects (2016), with Fabio Landini, Natalia Montinari and Marco Piovesan, *Journal of Economic Behavior and Organization* 129, 56-73;
- 29) Paying Positive to Go Negative: Advertisers' Competition and Media Reports (2016), with Andrea Blasco and Francesco Sobbrío, *European Economic Review* 83, 243-261;
- 30) Cooperation, Punishment and Immigration (2015) with Brian Rogers, *Journal of Economic Theory* 160, 72-101;
- 31) A network centrality method for the rating problem (2015), with Yongli Li and Chong Wu, *PLOS ONE* 10 (4): e0120247;
- 32) Communities and Social Inefficiency with Heterogeneous Groups (2014), with Alberto Dalmazzo and Diego Scalise, *Journal of Economic Dynamics and Control* 48, 410-427;
- 33) Is there psychological pressure in competitive environments? (2013) with Francesco Feri and Alessandro Innocenti, *Journal of Economic Psychology* 39, 249-256;
- 34) The Informational Divide (2013), with Manfred Nermuth, Giacomo Pasini and Simon Weidenholzer, *Games and Economic Behavior* 78, 21-30;
- 35) Homophily and Long-Run Integration in Social Networks (2012), with Yann Bramoullé, Sergio Currarini, Matthew Jackson and Brian Rogers, *Journal of Economic Theory* 147 (5), 17541786;
- 36) Excess Covariance and Dynamic Instability in a Multi-Asset Model (2012), with Mikhail Anufriev, Giulio Bottazzi and Matteo Marsili, *Journal of Economic Dynamics and Control* 36 (8), 1142-1161;
- 37) Stochastic Stability in the Best Shot Network Game (2012), with Leonardo Boncinelli, *Games and Economic Behavior* 75 (2), 538-554;
- 38) Collaboration in Social Networks (2012), with Luca Dall'Asta and Matteo Marsili, *Proceedings of the National Academy of Sciences* 109 (12), 4395-4400;
- 39) Optimal equilibria of the best shot game (2011) with Luca Dall'Asta and Abolfazl Ramezanpour, *Journal of Public Economic Theory* 13 (6), 885-901;
- 40) Eight Degrees of Separation (2011), *Research in Economics* 65 (3), 259-270;

- 41) Identifying the roles of race-based choice and chance in high school friendship network formation (2010), with Sergio Currarini and Matthew O. Jackson, *Proceedings of the National Academy of Sciences* 107 (11), 4857-4861;
- 42) Observed choices and underlying opportunities (2010), with Silvio Franz and Matteo Marsili, *Science and Culture* 76 (9-10), 471-476;
- 43) An Economic Model of Friendship: Homophily, Minorities and Segregation (2009), with Sergio Currarini and Matthew O. Jackson, *Econometrica* 77 (4), 1003-1045;
- 44) Assessing the relevance of node features for network structure (2009), with Ginestra Bianconi and Matteo Marsili, *Proceedings of the National Academy of Sciences* 106 (28), 11433-11438;
- 45) Effects of Tobin Taxes in Minority Game markets (2009), with Ginestra Bianconi, Tobias Galla and Matteo Marsili, *Journal of Economic Behavior and Organization* 70, 231-240;
- 46) Statistical Mechanics of maximal independent sets (2009), with Luca Dall'Asta and Abolfazl Ramezanzpour, *Physical Review E* 80 (6), 061136;
- 47) Optimization in task-completion networks (2008), with Luca Dall'Asta and Matteo Marsili, *Journal of Statistical Mechanics*, P02003;
- 48) Marginal contribution, reciprocity and equity in segregated groups: Bounded rationality and selforganization in social networks (2007), with Simone Giansante, Alan Kirman and Sheri Markose, *Journal of Economic Dynamics and Control*, 31 (6), 2085-2107;
- 49) Evolution of Risk Preferences (2006), *Mathematical Methods in Economics and Finance*, 1 (1), 65-76;

#### **Invited papers and entries in books and handbooks**

- 50) Preface: DGAA Focused Issue on Dynamic Games and Social Networks (2022) with Ennio Bilancini, Leonardo Boncinelli and Simon Weidenholzer, *Dynamic Games and Applications*;
- 51) Stochastic network formation and homophily (2016), with Brian Rogers, *Oxford Handbook on the Economics of Networks*, Y. Bramoullé, B. Rogers and A. Galeotti (Eds.), Oxford University Press;
- 52) Public Goods in Networks: A Statistical Mechanics Approach (2013), with Luca Dall'Asta and Abolfazl Ramezanzpour, Chapter 5 in "Game Theory and Applications – Volume 16", editors L. Petrosjan and V. Mazalov, NOVA Publisher, 59-80;
- 53) Simulations on Correlated Behavior and Social Learning (2010), with Andrea Blasco, in "Progress in Artificial Economics", editors M. LiCalzi, L. Milone and P. Pellizzari, Springer, 89-100;
- 54) The grass is always greener on the other side of the fence - The effect of misperceived signalling in a network formation process (2007), with Simone Giansante, Alan Kirman and Sheri Markose, in "Artificial Market Modeling", ed. Andrea Consiglio, Springer, 221-233;
- 55) A Model of Myerson-Nash equilibria in networks (2006), in "Artificial Economics", editors P. Mathieu, B. Beaufils and O. Brandouy, Springer, 175-188;

#### **Books**

- 56) in 2009 Editor VDM Verlag published a book from my 2007 PhD Thesis: "Four multi-agents economic models - From evolutionary competition to social interaction" (ISBN 3639186540).

#### **Prizes:**

- 2013 Italian Scientific Qualification as Full Professor in Sectors 13/A1 (Economia Politica), 13/A2 (Politica Economica) and 13/D4 (Metodi Matematici dell'Economia e delle Scienze Attuariali e Finanziarie);
- 2009 *Vinci prize*, of the Parthenope University of Naples, for papers extracted from the PhD thesis, for the paper "Eight Degrees of Separation".

#### **Editorial activities**

- 2022-current Editor for Economics of Network Science;
- 2021-current member of the Editorial Board of the European Economic Review;

- 2021-current member of the Editorial Board of the International Journal of Economic Theory;
- 2018-current Academic Editor of PLOS ONE;
- 2013-current member of the Editorial Board of Journal of Economic Behavior and Organization;
- 2013-current member of the Editorial Board of Journal of Behavioral and Experimental Economics;
- 2019-current member of the Editorial Advisory Board of Heliyon;
- 2018-2019 member of the Editorial Board of Heliyon;
- 2023-2024 guest editor for Mathematics, with Alessio Muscillo, for a special issue on "Game Theory and Social Networks in Mathematics and Economics";
- 2020-2022 guest editor for Dynamic Games and Applications, with Ennio Bilancini, Leonardo Boncinelli and Simon Weidenholzer, for a special issue on "Dynamic Games in Social Networks";
- 2020-2021 guest editor for Games, with Yongli Li, for a special issue on "Game Theory in Social Networks";
- 2019-2020 guest editor for Entropy, for a special issue on "Social Networks and Information Diffusion II";
- 2018-2019 guest editor for Information, for a special issue on "Information Diffusion/Spreading in Social Networks";
- 2017 guest editor for Games, for a special issue on "Combinatorial Optimization and Games";
- 2013 guest editor for Entropy, for a special issue on "Social Networks and Information Diffusion".

#### **Refereeing Activity** (last time in parenthesis)

*American Economic Review* (2024), *Chaos, Solitons and Fractals* (2024), *Econometrica* (2024), *Economics Letters* (2024), *Heliyon* (2024), *International Journal of Intercultural Relations* (2024), *Journal of Economic Behavior and Organization* (2024), *Network Science* (2024), *PNAS Nexus* (2024), *Social Networks* (2024), *Social Science & Medicine* (2024), *Telematics and Informatics* (2024), *Vaccine* (2024), *Advances in Complex Systems* (2023), *Applied Mathematics and Computation* (2023), *Applied Science* (2023), *Ecological Economics* (2023), *European Journal of Operational Research* (2023), *Frontiers in Physics* (2023), *Games and Economic Behavior* (2023), *International Journal of Environmental Research and Public Health* (2023), *Journal of Economic Dynamics and Control* (2023), *Journal of Economic Theory* (2023), *Nature Communications* (2023), *Personality and Social Psychology Bulletin* (2023), *Proceedings of the National Academy of Sciences* (2023), *Quarterly Journal of Economics* (2023), *Review of Economic Studies* (2023), *Social Choice and Welfare* (2023), *The Economic Journal* (2023), *Theoretical Economics* (2023), *Health Economics* (2022), *Informatics* (2022), *Information Economics and Policy* (2022), *Journal of Behavioral and Experimental Economics* (2022), *Mathematical Biosciences and Engineering* (2022), *Science Advances* (2022), *Scientific Reports* (2022), *Algorithms* (2021), *Biometrics* (2021), *Economic Inquiry* (2021), *Games* (2021), *International Journal of Game Theory* (2021), *Journal of Economic Geography* (2021), *Journal of Mathematical Economics* (2021), *Journal of the European Economic Association* (2021), *Nature Mathematics* (2021), *Networks & Spatial Economics* (2021), *Symmetry* (2021), *Computation* (2020), *Dynamic Games and Applications* (2020), *Education Sciences* (2020), *Journal of Evolutionary Economics* (2020), *Journal of Health Economics* (2020), *Journal of the Royal Society Interface* (2020), *Nature Human Behaviour* (2020), *Sustainability* (2020), *Entropy* (2019), *IEEE Access* (2019), *Information* (2019), *Journal of Economics & Management Strategy* (2019), *Mathematical Biosciences and Engineering* (2019), *Review of Social Economy* (2018), *Communications in Nonlinear Science and Numerical Simulation* (2018), *Discrete Dynamics in Nature and Society* (2018), *Economics and Policy of Energy and the Environment* (2018), *European Economic Review* (2018), *Information Technology & People* (2018), *Journal of Global Economics* (2018), *Journal of the Association for Information Science and Technology* (2018), *Human Behaviour* (2018), *Operations Research* (2018), *Plos One* (2018), *Science Advances* (2018), *American Economic Journal: Microeconomics* (2017), *Artificial Intelligence* (2017), *Economic Theory* (2017), *International Journal of Industrial Organization* (2017), *Management Science* (2017), *Journal of Defense Management* (2016), *Journal of Economic Interaction and Coordination* (2016), *Journal of Financial Stability* (2016), *Journal of Statistical Mechanic* (2016), *Review of Economic Design* (2016), *Scandinavian Journal of Economics* (2016), *Chaos* (2015), *American Journal of Political Science* (2014), *Asia Pacific Management Review* (2014), *Canadian Journal of Economics* (2014), *Game Theory* (2014), *Physica A* (2014), *Theory and Decision* (2014), *B.E. Journal of Theoretical Economics* (2013),

*Computational Economics* (2013), *EPJ Data Science* (2013), *International Game Theory Review* (2013), *International Journal of Forecasting* (2013), *Metroeconomica* (2013), *Research in Economics* (2013), *Annals of Operations Research* (2012), *Quality & Quantity* (2012), *Rationality and Society* (2012), *Journal of Population Economics* (2011), *Quantitative Economics* (2011), *Rationality and Society* (2011), *Review of Network Economics* (2011), *Mathematical Social Sciences* (2010), *Molecular Psychiatry* (2009), *Open Economic Journal* (2009), *Economics* (2008), *Regional Science and Urban Economics* (2008), *The European Physical Journal B* (2007);

Fund for Scientific Research, Belgium (2023 & 2024), Israel Science Foundation (2024, 2023 and 2018), Austrian Science Fund (2023), Danish Agency for Higher Education and Science (2022), Italian Ministry of Research VQR 2015-19 (2021), Swiss National Science Foundation (2021), British Academy (2021), Università di Modena e Reggio Emilia (2019), National Science Foundation (2017), Università di Verona (2016), German Science Foundation (2015), The Netherlands Organisation for Scientific Research (NOW, 2014), Advanced Systems Analysis Program at IIASA (2013), Università dell'Insubria (2013).

Member of the Program Committee for the 2019 European Meeting of the Econometric Society, Manchester.

### **Research projects as Principal Investigator**

2023-2025 PRIN PNRR project P20228SXNF “Following a cohort of university students through app-based experiments: beliefs, attitudes, narratives, and their consequences on social outcomes”, financed by the Italian Ministry of Research (148k€);

2022-2024 project “Urban Transition Preparedness” with Enel X, financed by the Italian Ministry of Research (125k€);

2020-2024 PRIN project 2017ELHNNJ “The economics of vaccination”, financed by the Italian Ministry of Research (238k€);

2020-2022 project “CIRCULAR ECONOMY PA” financed by Enel X (25k€);

2018-2019 pilot project “The economics of vaccination”, financed by Bocconi Senior Researchers’ Grants (10k€).

### **Research projects as Head of Local Unit**

2023-2025 PRIN project 2022389MRW “Co-designing robust schools to create public value for the young generations” with Università Bocconi and Università Bicocca di Milano, financed by the Italian Ministry of Research (48k€ for the unit);

2021-2024 project “Spinta gentile, vaccinazione anti-COVID-19 e salute pubblica” (Spin.Ge.Vac.S.) with IMT Lucca (principal investigator Gustavo Cevolani), Università di Firenze, ARS Toscana, Azienda Usl Toscana Sud Est, Azienda Usl Toscana Nord Ovest, financed by Regione Toscana (61k€ for the unit);

### **Research projects as Co-Principal Investigator**

2014-2016 project “Virtual social networks and entrepreneurship in low-income countries: A randomized controlled experiment in Ghana” with Emanuele Colonnelli, Fernando Vega Redondo and Constantine Yannelis, financed by the PEDL Exploratory Research Grant Projects;

2013-2015 project “Too central to fail: financial networks, risks and policy responses”, with Valentyn Panchenko and Mikhail Anufriev, financed by the Centre for International Finance and Regulation in Sydney;

2013-2014 project “Bovine viral diarrhea virus (BVDV, BVDV3 genotype) and quantitative methods to calculate and identify the risk factors of the disease spreading in the cattle herd mobility network”, with University of Turin and IZSAM Teramo, financed by the Italian Ministry of Health.

### **Research projects as member**

2022-2023 PNRR Project THE (Tuscan Health Ecosystem);

2017-2019 PRIN project 2015592CTH “The Dark Side of Networks”;

2017-2019 Australian Research Council grant “Real economy and financial networks”;  
 2014-2016 Unicredit-Modigliani Research Grant “The Co-Evolution of Social Preferences and Friendship Network”;  
 2013-2016 FIRB project RBFR1269HZ “Social and spatial interactions in the accumulation of civic and human capital”;  
 2008-09 PRIN project 2007TKLTSR “Computational markets design and agent-based models of trading behavior”;  
 2006-08 EU-STREP project no. 516446 COMPLEXMARKETS.

#### **Presentations at invited seminars and workshops**

- 2024 seminars: Scuola Superiore Sant’Anna, Pisa; Carlos III, Madrid;  
 workshops: SAET conference, Santiago, Chile; Workshop on Networks and Development, Naples; 35<sup>th</sup> Stony Brook Conference on Game Theory;
- 2023 seminar: IMT, Lucca;  
 workshop: Workshop on Games on Networks, Singapore;
- 2022 seminar: Dipartimento di Economia, Società, Politica, Urbino;  
 workshops: workshop on Covid and Behavior at the University of Milan Bicocca; workshop in memory of Cristiana Benedetti Fasil, EUI Florence; 37th Annual Congress of the European Economic Association, Milan; Model Evaluation and Causal Search, Pisa;
- 2021 workshops: 1st DISEI-Workshop, University of Florence; 36th Annual Congress of the European Economic Association Virtual;
- 2020 seminars: Dipartimento di Scienze Economiche, Bologna; Learning, Games and Network Seminar, Oxford University; Department of Economics, University of Antwerp;  
 webinars: Facultad de Economía, Universidad de los Andes, Colombia; Dipartimento di Economia Politica e Statistica, Siena;
- 2019 seminars: Department of Economics, University of Copenhagen; BELLS Lab, Bocconi; Department of Economics, University of Florence; Department of Economics, University of Verona;  
 workshops: VERA workshop on the Economics of Social Interactions, Venice; III BEEN Workshop, Università Statale di Milano; Fifth Conference on Network Science and Economics, Indiana University; 24th CTN Workshop, Aix-en-Provence; Adansonian Conference, Bocconi; 7th European Meeting on Networks, Cambridge, UK; 2nd Padua Workshop on Economic Design and Institutions, Padua, Italy;
- 2018 seminars: Business School, University of Technology Sydney, Australia; Social Science Division, New York University in Abu Dhabi, United Arab Emirates;  
 workshops: II BEEN Workshop, Bologna; Big Data: Challenges and New Trends, Siena; Workshop on Dynamic Models of Interactions, Paris School of Economics; ASSET Conference, Florence;
- 2017 seminars: Dipartimento di Economia Politica e Statistica, Siena;
- 2016 seminars: University of East Anglia; GREQAM, Marseille; Department of Decision Sciences, Bocconi; Università Cattolica, Milan;  
 workshops: X GRASS Workshop on collective choices, Florence;
- 2015 seminars: Center for Studies in Economics and Finance, Naples; Institute of Economics and Econometrics, University of Geneva;
- 2014 seminars: Isaac Newton Institute for Mathematical Sciences, Cambridge, UK; Department of Economics, Università di Verona; Department of Economics, University of Copenhagen; Department of Decision Sciences, Bocconi; Department of Economics, Università di Venezia; Department of Economics, University of Sussex, UK; School of Economics and Finance, Queen Mary, London, UK;  
 workshop: 4th Ravello Workshop, Italy;
- 2013 seminars: Department of Economics, Northeastern University, Boston; Dipartimento di Economia Politica e Statistica, Siena; University LUISS, Rome; Department of Economics, Stanford University; Department of Economics, Cal Tech; Department of Economics, Berkeley University;

- workshops: Workshop on Social Capital, Banca d'Italia, Rome; WIN Workshop, New York University; VII GRASS Workshop on collective choices, Pisa; 8th International Conference on Nonlinear Economic Dynamics, Siena;
- 2012 seminars: Department of Economics, EUI, Florence; Economics Department, University of Essex; School of Economics, University of Amsterdam;  
workshops: ASSET Annual Meeting, Cyprus;
- 2011 seminars: Economic Department, Università di Pisa;  
workshop: Max Weber Programme Lustrum Conference, Florence;
- 2010 seminars: IMT, Lucca; Department of Economics, EUI, Florence; Center for Complex Systems, Università di Siena;  
workshops: Artificial Economics 2010, Treviso, Italy; 15th CTN Workshop, Marseille;
- 2009 seminars: Lecture "Salvatore Vinci", Napoli; Dipartimento di Economia Politica, Università di Siena; Faculty of Economics, Humboldt University in Berlin;  
workshops: Workshop on Evolution and market behavior in economics and finance, Pisa; III GRASS Workshop on collective choices, Padova; 24th Annual Congress of the European Economic Association, Barcelona; Public Economic Theory Conference, Galway; Max Weber Programme Conference, EUI, Florence; 14th CTN Workshop, Maastricht;
- 2008 seminars: Department of Economics, University of Florence; Department of Economics, University of Vienna; Department of Economics, EUI, Florence; Department of Economics, Università di Venezia; School of Economics, University of Amsterdam; Economic Department, University of Padua; Scuola Superiore Sant'Anna, Pisa;  
workshops: International Workshop on Sociophysics, ISI Foundation, Torino; Complexity in Markets Conference, University of Warwick; 13th CTN Workshop, Venice;
- 2007 seminars: Department of Economics, University of Pisa; Dipartimento di Scienze Economiche, Bologna;  
workshops: Econophysics colloquium and beyond, Ancona; GRASS Workshop on collective choices, Siena; Artificial Economics 2007, Palermo; 22nd Annual Congress of the European Economic Association, Budapest; Workshop on Statistical Physics and Financial Markets, ICTP, Trieste;
- 2006 seminars: Center for Complex Systems, University of Siena;  
workshops: 12th Conference on the Foundations of Utility and Risk Theory, LUISS University, Rome; 1st Conference on Economic Sciences with Heterogeneous Interacting Agents, Bologna; Spring Meeting of Young Economists, Seville; QED Workshop, Vienna; 11th CTN Workshop, University of Warwick;
- 2005 seminars: Department of Applied Mathematics, Università di Venezia;  
workshops: Conference on CAE and Computational Technologies, Lecce, Italy; Symposium in Agentbased Computational Methods, Lille; 10th Workshop on Economic Heterogeneous Interacting Agents, University of Essex; 2004 seminars: CCFEA, University of Essex.

### **Teaching** at Università di Siena

2023-2023	Behavioral Economics, Master in Economics;
2020-2023	Political Economy, undergraduate;
2022-2023	Topic course on Networks, PhD in Economics;
2012-2015 & 2019-2022	Mathematics, PhD in Economics;
2020-2022	Economia Comportamentale, Master in Environmental Economics;
2019	Laboratory of Experimental Economics, Master in Economics;
2015	Microeconomics II, Master in Economics;
2011-2015	Pre-course in Mathematics and Microeconomics, Master in Economics;



2013-2014      Metodi matematici per l'Economia, undergraduate;  
 2012            Introductory course to Matlab and Stata, Master in Economics;  
 2009-2011      Macroeconomia, undergraduate at Grosseto;  
 2010            Teoria dei Giochi, Master in Economics;  
 2009            Teoria dei Giochi, Master in Mathematics;  
 2009            Research Workgroup on Social Interactions, PhD in Economics;

at Università Bocconi

2017-2018 & 2020    30261 Experimental Economics and Psychology, undergraduate;  
 2018-2019            40051 Microeconomics 1, PhD in Economics;  
 2016-2019            40385 Advanced Microeconomics 3 (Networks and Development), PhD in Economics;  
 2018                  30449 Mathematics – Module 2, undergraduate BESS;  
 2016-2017            30063 Mathematics – Module 2, undergraduate;

at Scuola Superiore S.Anna di Pisa

2024    Game Theory, PhD in Economics;  
 2015    Games and Decisions, PhD in Economics;

at IMT Lucca

2023    PhD course on Diffusion in Networks

at Scuola Normale Superiore di Pisa

2014    Summer School of Mathematics for Economics and Social Sciences;

at University of Copenhagen

2014    PhD course in Social Networks;

at Stanford University

2013    Econ 102B “Introduction to Econometrics”, undergraduate;

at Università Ca' Foscari di Venezia

2006-2008      Mathematics, Master;  
 2008            Economia Politica Avanzato, Master;  
 2006            Matematica I, prima parte, undergraduate;  
 2005-2007      teaching assistances: Economia Politica, undergraduate; Microeconomics II, PhD in Economics; Mathematics, PhD in Economics.

**Invited lectures**

2021-2023      “Nudge Day” webinar organized by Regione Toscana;  
 2020            video lecture on Covid19 for High Schools in Tuscany;  
 2015            “Social networks and homophily”, 10th International Winter School on Inequality and Social Welfare Theory, Canazei (Italy);

- 2013-2014 Lectures on Social Networks in several High Schools in Tuscany;  
 2011 “Complex Networks & (real) Social Networks”, Università di Pisa;  
 2010 Lecture on Complex Networks at the High School Sarrocchi in Siena;  
 2009 “Social networks in Economics”, Università di Bologna a Forlì & Humboldt University in Berlin.

#### **Post doc students and researchers under my supervision**

- 2024- Roberto Rozzi under grant PRIN 2022389MRW;  
 2021- Alessandro Stringhi under grant SPIN.GE.VAC.S and PRIN P20228SXNF;  
 2019-2024 Alessio Muscillo under grants PRIN 2015592CTH and “CIRCULAR ECONOMY PA”;  
 2022-2023 Anna Pirogova under PNRR grant THE – Tuscan Health Ecosystem;  
 2022-2023 Patrick Allmis under grants PRIN 2017ELHNNJ and SPIN.GE.VAC.S;  
 2022 Marco Stimolo under grants PRIN 2017ELHNNJ and SPIN.GE.VAC.S;  
 2021-2022 Andrea Albertazzi under grant PRIN 2017ELHNNJ.

#### **PhD Students**

- 2023 Vieri Calogero (Siena) “The New Economics of Positioning: places as knowledge platforms”;  
 2020 Abhishek Samantray (IMT Lucca - coadvisor) “Collective Behaviour in Digital Societies”;  
 2019 Sebastiano Della Lena (Venezia - coadvisor) “Three Essays on the Economics of Social Interactions”;  
 2017 Alessio Muscillo (Siena) “Endogenous Diffusion in Social Networks – Two cases: Infectious Diseases and Sharing of Knowledge”;  
 Andrea Deghi (Siena) “Essays on Interbank Formation and the Implications of Financial Structure”;  
 Gülşah Gülen Çiftçi (Siena) “Social Movements and Network Theory”;  
 2016 Daniele Cassese (Siena) “Three Essays on Dynamical Processes on Networks”;  
 2011 Sladjana Pavlinovic (Siena) “Three Essays on Consumer Communication and Information Asymmetry”.

#### **Institutional activity**

- 2022-current President of the Teaching Committee of the Master Degree in Economics, Università di Siena,  
 2023-current member of the Commission for International Relations and of the Task Force for International Courses, Università di Siena,  
 2011-current member of the Faculty Board of the PhD Program in Economics of the Tuscan Universities of Firenze, Pisa and Siena,  
 2023-current Member of the Advisory Board of the PhD in Economics at Ca’ Foscari University, Venezia,  
 2023 President of the Italian National Commission for Scientific Qualification in Sector 13/A1 (Economia Politica),  
 2021-2022 Member of the Italian National Commission for Scientific Qualification in Sector 13/A1 (Economia Politica),

#### **Member of commissions for hiring**

Università di Siena (2012, and from 2020 to 2023), University of Cyprus (2023), Duke Kunshan University, China (2023), Università di Messina (2023), Università di Bologna (2022), Università di Firenze (2021), Università dell’Insubria (2021), Università di Palermo (2022), Università di Chieti-Pescara (2020), Università Bocconi (from 2016 to 2019), Università di Verona (2016), Scuola Superiore Sant’Anna di Pisa (2014).

#### **PhD Commissions**

- 2024 Paulo Medeiros (Siena) “Diversity in Motion: Essays on Macro-Dynamics with Heterogeneity”;  
 2021 Shaden Shabayek (Paris School of Economics) “Behavior, Opinion Formation and Cultural Identity in Social Networks”;

- 2020 Chenghong Luo (UC Louvain, Belgium) “Homophily and Segregation in Social Networks when Individuals are Limitedly Forward-Looking”;  
Eugenio Vicario (Siena) “Three Essays on Segregation, Minorities, and Imitation”;
- 2019 Nicola Campigotto (Siena) “Essays on Social Interactions”;  
Alexsandros Cavgias Martins Fraga (Bocconi) “Essays on Political Economy”;  
Tiziano Rotesi (Bocconi) “Essays in Political Economy and Social Networks”;
- 2016 Graeme Cokayne (Lund, Sweden) “Networks, Information and Economic Volatility”;
- 2015 Irina Kirysheva (EUI) “Essays in Applied Game Theory”;
- 2014 Elias Carroni (Namur, Belgium) “Pricing Based on Consumers’ Behaviour and Interconnections”;
- 2012 Gioia De Melo (Siena) “Essays on social interactions”;  
Domenico Buccella (Siena) “Issues on Labor Unions and Economic Integration”;
- 2011 Gergely Horváth (Alicante, Spain) “Three Essays on Dynamic Processes and Information Flow on Social Networks”;  
Roman Chuhay (Alicante, Spain) “Three Essays on Social Networks”;
- 2010 Michel Alexandre da Silva (Siena) “Group Inequality, Endogenous Categorization and Neighborhood Effects”;  
Anna Papaccio (Siena) “Essays on Markets and Networks”.

