

# ANDREA MINA

(July 2023)

## CURRICULUM VITAE

Institute of Economics  
Scuola Superiore Sant'Anna  
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### EMPLOYMENT

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December 2021 –	<i>Full Professor</i> , Institute of Economics, Sant'Anna School of Advanced Studies, Pisa
October 2019 –	<i>Pro-Rector for International Relations</i> , Sant'Anna School of Advanced Studies, Pisa
July 2018 –	<i>Associate Scientific Co-ordinator of EMbeDS Centre of Excellence</i> (Economics and Management in the era of Data Science), Sant'Anna School of Advanced Studies, Pisa
Oct 2016 – Nov 2021	<i>Associate Professor</i> , Institute of Economics, Sant'Anna School of Advanced Studies, Pisa
Sept 2007 –	<i>Senior Research Fellow</i> , Centre for Business Research (CBR), University of Cambridge, Cambridge UK
Oct 2016 – 2020	<i>Fellow</i> , Cambridge Judge Business School, University of Cambridge, Cambridge UK
Sept 2015 – Sept 2016	<i>Director of Economic Studies</i> , St Edmund's College, University of Cambridge, Cambridge UK
Feb 2015 – Sept 2016	<i>Fellow</i> , St Edmund's College, University of Cambridge, Cambridge UK
Jan 2013 – Sept 2016	<i>University Lecturer (Assistant Professor)</i> in Economics of Innovation, Cambridge Judge Business School, University of Cambridge, Cambridge UK
Jan 2009 – June 2014	<i>Research Associate</i> , UK Innovation Research Centre (UK~IRC), University of Cambridge (CBR) and Imperial College London Business School
Feb 2005 – Aug 2007	<i>Research Associate</i> , Centre for Research on Innovation and Competition (CRIC), University of Manchester, Manchester UK
Feb 2004 – Jan 2005	<i>Research Assistant</i> , Centre for Research on Innovation and Competition (CRIC), University of Manchester, Manchester UK.

## EDUCATION

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- *PhD*, Centre for Research on Innovation and Competition (CRIC)/Faculty of Social Sciences and Law, University of Manchester, and Dept. of Economics Cognetti de Martiis/School of Law, Politics and Socio-Economic Sciences, University of Turin, Italy
- *MSc*, Science and Technology Policy, Science and Technology Policy Research Unit (SPRU), University of Sussex, UK
- *Laurea*, Communication Sciences/Faculty of Letters and Philosophy, 110/110 *summa cum laude* (Innovation Economics thesis), University of Turin, Italy
- *Diplôme d'Etudes Universitaires Françaises* – DEUF (French Certificate of Graduate Studies) University of Jean Moulin Lyon III, France
- *Diploma di Maturità Classica*, Liceo Classico A. Rosmini, Turin, Italy (A Level equivalents: Ancient Greek and Physics, 60/60 – top marks).

### Other qualifications:

- Italian National Scientific Qualification as Full Professor ('Abilitazione Scientifica Nazionale', art. 16, comma 1, Legge 240/10) for the period 03/06/2021-03/06/2030 in:
  - 13/A1 Political Economy ('Economia Politica')
  - 13/A2 Economic Policy ('Politica Economica')
  - 13/A4 Applied Economics ('Economia Applicata')
- UK Office of National Statistics (ONS) Qualified Researcher, since 2011.

### Honours and Awards

- *Nominated for the Best Paper Award* of the Strategic Management Society Knowledge and Innovation Interest Group, SMS Annual Conference, London, 17-20<sup>th</sup> September 2022
- *BEST PAPER AWARD*, DRUID Summer Conference 2022, Copenhagen Business School, 13-15<sup>th</sup> June 2022
- *Outstanding Contribution in Reviewing*, Research Policy, Elsevier, November 2016
- *BEST PAPER AWARD*, CONCORDi-2013 Conference, JRC-IPTS/European Commission, Seville, 26-27<sup>th</sup> September 2013
- *Best Paper Proceedings*, 2013 Academy of Management Meeting, Lake Buena Vista, Orlando, 9-13<sup>th</sup> August
- *Nominated for the International Schumpeter Prize* at the 7<sup>th</sup> European Meeting of Applied Evolutionary Economics (EMAE), Sant'Anna School of Advanced Studies, Pisa, 14-16<sup>th</sup> February 2011
- *BEST PAPER AWARD*, 25<sup>th</sup> DRUID Celebration Conference 'Entrepreneurship and Innovation', Copenhagen Business School, 17-20<sup>th</sup> June 2008
- *OPTIME AWARD 2000*, Prize for the Best Graduates of the University and 'Politecnico' of Turin, sponsored by 'Unione Industriale Torino', 25<sup>th</sup> September 2000.

### TEACHING

- *The Economics of Science*, Econ undergraduate module; *Econometrics Lab*, Econ undergraduate module; *Venture Capital*, Econ undergraduate module; *Advanced Topics in the Economics of Technical Change*, MAIN MSc in Innovation; *Financing Innovation*, PhD module (Economics), *The Economics of New Health Technologies*, PhD module (Health Science, Technology and Management), 2016 to date, Sant'Anna School of Advanced Studies, Pisa

- *The Economic Foundations of Technology Policy*, MPhil in Technology Policy, Judge Business School, University of Cambridge, NEW module designed for the Academic Year 2015-16
- *The Economics of Firms and Markets*, Management Studies Tripos, Judge Business School, University of Cambridge, Selected topics from 2009 to 2012; Course co-ordinator 2013-2016
- *Business Economics* (Micro and Macro, 3<sup>rd</sup> year) and *Introductory Business Economics* (2<sup>nd</sup> year), Engineering Tripos, University of Cambridge, 2013-2016
- *Entrepreneurial Science and Innovation*, MPhil in Technology Policy, Judge Business School, University of Cambridge, 2013-2016
- *MBA and EMBA*, Judge Business School, University of Cambridge, Project supervisions, 2012-2016.
- *MSc in Health Economics and Policy*, CORIPE University of Turin. Invited Lecturer. Topics: 'Principles of the Economics of Technical Change' and 'Innovation in the Health Sector', 2005-2010
- *International Competitiveness and Technical Change*, Manchester Business School, University of Manchester, Course supervisor, 2006-07; *Technology Management*, School of Management/University of Manchester Institute of Science and Technology, Course supervisor, 2002 to 2004.

## PUBLICATIONS

- (with V. Cirillo, L. Fanti, and A. Ricci) 2023. 'Digitizing firms: skills, work organization and the adoption of new enabling technologies'. *Structural Change and Economic Dynamics*, 66: 89-105; doi: <https://doi.org/10.1016/j.strueco.2023.04.011>
- (with V. Cirillo, L. Fanti, A. Ricci) 2023. 'New digital technologies and firm performance: Industry 4.0 in the Italian economy', *Industry and Innovation*, 30(1): 159-188, <https://doi.org/10.1080/13662716.2022.2055999>
- (with P. Santoleri, A. di Minin, and I. Martelli) 2022. 'The causal effects of R&D grants: evidence from a regression discontinuity', *Review of Economics and Statistics*, 1-42. doi: [https://doi.org/10.1162/rest\\_a\\_01233](https://doi.org/10.1162/rest_a_01233).
- (with C. Esposito, M. Gortan, L. Testa, F. Chiaromonte, G. Fagiolo and G. Rossetti) 2022. 'Venture capital investments through the lens of network and functional data analysis', *Applied Network Science*, 7, 42, <https://doi.10.1007/s41109-022-00482-y>
- (with V. Cirillo, L. Fanti, A. Ricci) 2022. 'Upgrading Italy's Industrial Capacity: Industry 4.0 across Regions and Sectors', *SINAPPSI – Journal of the Italian National Institute for Public Policy (INAPP)* XI (2): 14-35, [https://doi.10.53223/Sinappsi\\_2021-02-1](https://doi.10.53223/Sinappsi_2021-02-1)
- (with S. Rocchetta, D. Kogler and C. Lee) 2021. 'Technological knowledge spaces and the resilience of European regions', *Journal of Economic Geography*, 22(1): 27–51, <https://doi.10.1093/jeg/lbab001>
- (with M. Moggi, A. Martinelli) 2021. 'The enabling technologies of Industry 4.0: Examining the seeds of the Fourth Industrial Revolution', *Industrial and Corporate Change*, 30(1): 161–188, <https://doi.10.1093/icc/dtaa060>
- (with P. Santoleri) 2021. 'The effect of the Great Recession on the employment growth of young vs. small firms in the Eurozone', *Structural Change and Economic Dynamics*, 56: 184-194. <https://doi.org/10.1016/j.strueco.2020.11.002>
- (with A. di Minin, I. Martelli, G. Testa, P. Santoleri) 2021. 'Public funding of innovation: exploring applications and allocations of the European SME Instrument', *Research Policy* 50(1): 104-131. <https://doi.org/10.1016/j.respol.2020.104131>
- (with H. Lahr) 2020. 'Endogenous financial constraints and innovation', *Industrial and Corporate Change*, <https://doi.org/10.1093/icc/dtaa035>

- (with C. Jensen) 2019. 'Did transition bring cleaner air? The effects of ownership, territorial and technology policy on air pollution', *Ecological Economics* 165: 106276  
<https://doi.org/10.1016/j.ecolecon.2019.03.017>
- (with S. Rocchetta) 2019 'Technological coherence and the adaptive resilience of regional economies', *Regional Studies* 53(10): 1421-1434,  
<https://doi.org/10.1080/00343404.2019.1577552>
- Mina, A. (with T. Thune) 2016 'Hospitals as innovators in the health care system: A literature review and research agenda', *Research Policy* 45(8): 1545-1557,  
<https://doi.org/10.1016/j.respol.2016.03.010>
- Mina, A. (with H. Lahr) 2016 'Venture capital investments and the technological performance of portfolio firms', *Research Policy* 45(1): 303-318 <https://doi.org/10.1016/j.respol.2015.10.001>
- Mina, A. (with Henry Lahr) 2014 'Liquidity, technological opportunities, and the stage distribution of venture capital investments', *Financial Management* 43(2): 291-325,  
<https://doi.org/10.1111/fima.12048>
- Mina, A. (with E. Bascavusoglu-Moreau and A. Hughes) 2014 'Open service innovation and the firm's search for external knowledge', *Research Policy* 43(5): 853-866,  
<https://doi.org/10.1016/j.respol.2013.07.004> (Special Issue 'Open Innovation: New Insights and Evidence' edited by J. West, A. Salter, W. Vanhaverbeke and H. Chesbrough).
- Mina, A. (with E. Bascavusoglu-Moreau and A. Hughes) 2013 'Exploiting knowledge flows: Openness and the innovative performance of business services', *Best Paper Proceedings, 2013 Academy of Management Meeting*, <https://journals.aom.org/doi/abs/10.5465/ambpp.2013.188>
- Mina, A. (with J. Probert and D. Connell) 2013 'R&D service firms: The hidden engine of the high-tech economy?', *Research Policy* 42(6-7): 1274-1285 <https://doi.org/10.1016/j.respol.2013.03.004>
- Mina, A. (with H. Lahr and A. Hughes) 2013 'The demand and supply of external finance for innovative firms', *Industrial and Corporate Change* 22(4): 1-33. <https://doi.org/10.1093/icc/dtt020>
- Mina, A. (with B. Tether and C. Li) 2012 'Knowledge-bases, places, spatial configurations and the performance of knowledge-intensive professional service firms', *Journal of Economic Geography* 26: 969-1001, <https://doi.org/10.1093/jeg/lbs015>
- Mina, A., 2009, 'The emergence of new knowledge, market evolution and the dynamics of micro-innovation systems', *Economics of Innovation and New Technology* 18(5): 447-466,  
<https://doi.org/10.1080/10438590802547167>
- Mina, A. (with J. Costa-Font and C. Courbage), 2009, 'Innovation and health: Pathways to new technologies', *Economics of Innovation and New Technology* 18(5): 403-406  
<https://doi.org/10.1080/10438590802547092>
- Mina, A. (with D. Consoli), 2009, 'An evolutionary perspective on health innovation systems', *Journal of Evolutionary Economics*, 19(2): 297-319, <http://dx.doi.org/10.1007/s00191-008-0127-3>
- Mina, A. (with R. Ramlogan, G. Tampubolon, G. and J. S. Metcalfe), 2007, 'Mapping evolutionary trajectories: Applications to the growth and transformation of medical knowledge', *Research Policy* 36(5): 789-806, <https://doi.org/10.1016/j.respol.2006.12.007>
- Mina A. (with R. Ramlogan, G. Tampubolon, and J. S. Metcalfe), 2007, 'Networks of knowledge: The distributed nature of medical innovation', *Scientometrics* 70(3): 459-489,  
<https://dx.doi.org/10.1007/s11192-007-0212-7>
- Mina A. (with J.S. Metcalfe and A. James), 2005, 'Emergent innovation systems and the delivery of clinical services: The case of intra-ocular lenses', *Research Policy* 34(9): 1283-1304,  
<https://doi.org/10.1016/j.respol.2005.01.015>

## Under review

- (with V. Cirillo, and A., Ricci) 'Digital technologies, labour market flows and investment in training: Evidence from Italian employer-employees data', under review, Working paper version available [here](#).
- (with J. Tagliatalata) 'Innovation, asymmetric information and the capital structure of new firms', 2<sup>nd</sup> round R&R. Working paper version available [here](#).
- (with E. Romito and A. Martinelli) 'Collective licensing: The double effect of the Medicine Patent Pool on access to drugs in developing countries', R&R. Working paper version available [here](#).

## In progress

- (with M. Iori and P. Santoleri) 'R&D grants and the novelty of innovation', presented at the 2023 NBER Summer Institute, International Conference on Science of Science and Innovation (ICSSI), Munich Summer Institute, Barcelona Summer Forum Workshop and DRUID, Working paper available [here](#).
- (with M. Iori and A. Martinelli) 'The direction of technical change in AI and the trajectory effects of government funding', *Nominated for the Best Paper Award* of the Strategic Management Society Knowledge and Innovation Interest Group, 2023 SMS Annual Conference. Presented at the 2023 International Conference on Science of Science and Innovation (ICSSI). Working paper version available [here](#).
- (with R. Danna and M. Iori) 'A Numerical Revolution: The diffusion of practical mathematics and the growth of pre-modern European economies'. *Winner of the BEST PAPER AWARD*, DRUID Summer Conference 2022. Working paper version available [here](#).
- (with A. Khan and S. Massini) 'Intermediaries and the Orchestration of Emergent Enabling Technologies – The Case of Organic and Printed Electronics'. Working paper available [here](#).
- (with G. Tripodi, F. Lamperti, F. Chiaromonte, F. Lillo, and R. Mavilia) 'Advances in negative emissions technologies generate heterogeneous knowledge spillovers'. Working paper available [here](#).
- (with Ughi, A.) 'Digital Advantage: Evidence from a policy evaluation of adoption subsidies', presented at the 2023 DRUID Conference.
- (with Rocchetta, S., Iori, M and Gillanders, R.) 'Technological diversification shocks and the growth of regions', presented at the 22<sup>nd</sup> Journées Louis-André Gérard-Varet Public Economics Conference and 2023 DRUID Conference.
- (with Conte, G., and Rocchetta, S.) 'From technological capabilities to industrial strategy: The productivity effects of Smart Specialisation in Europe', presented at the 22<sup>nd</sup> Journées Louis-André Gérard-Varet Public Economics Conference and 2023 DRUID Conference.
- (with Moschella, D., and Thiedke, J.) 'Workers' representation, firm performance and wages: causal evidence from changes in corporate law'.

## Books and Long Reports

- (with D. Consoli, R.R. Nelson, and R. Ramlogan) 2016. [Medical Innovation: Science, Technology and Practice](#), Routledge: London.
- (with D. Docherty, D. Eyton, A. Hughes, B. Martin, S. Pearce, and J. Probert) 2013 '[Growing Value: Business-University Collaboration for the 21<sup>st</sup> Century](#)', National Centre for Universities and Business, London.
- (with J. Probert), 2012, '[Enhancing Collaboration, Creating Value: Business Interaction with the UK Research Base in Four Sectors](#)', Council for Industry and Higher Education (CIHE), London.
- (with A. Hughes), 2012, '[The UK R&D Landscape](#)', Council for Industry and Higher Education (CIHE), London.

- (with D. Cox, J. Edler, K. Flanagan, P. Cunningham) '[Study on Ireland's International Engagement in Science, Technology and Innovation](#)', Report for the Irish Department of Enterprise, Trade and Employment (FORFÁS).
- (with B. Tether, D. Consoli and D. Gagliardi), 2005, '[A literature review on skills and innovation: How does successful innovation impact on the demand for skills and how do skills drive innovation?](#)', Report for the Department of Trade and Industry (UK), London.

### Short Reports

- 'Collaboration in services vis-à-vis manufacturing', 2015, chapter in '*The State of the Relationship's Report*', National Centre for Universities and Business (NCUB), London.
- 'Innovation Intermediaries', 2014, chapter in '*The State of the Relationship's Report*', National Centre for Universities and Business (NCUB), London.
- (with A. Hughes), 2010, 'The impact of the Patent System on SMEs', Report for the UK Strategic Advisory Board for Intellectual Property (SABIP/UK Intellectual Property Office), London.
- 'Corporate Venture Capital: A review of the literature and data', 2009, Report for the Council of Science and Technology, London.
- (with P. Cunningham and D. Gagliardi), 2007, 'Regional Investment in Research: The Case of Emilia Romagna', ETEPS Report for the Institute for Prospective Technology Studies (IPTS) of the European Commission, Brussels.

### Book Chapters

- Deakin, S. and A. Mina (2013) 'Institutions and Innovation: Is Corporate Governance the Missing Link?', in Pittard, M., Monotti, A. and J. Duns (eds.) '*Business Innovation: A Legal Balancing Act - Perspectives from Intellectual Property, Labour and Employment, Competition and Corporate Laws*', Edward Elgar, Cheltenham, UK, pp. 456–482.
- Consoli, D., McMeekin, A., Metcalfe, J.S., Mina, A. and R. Ramlogan (2009) '*The Process of Healthcare Innovation: Problem Sequences, Systems and Symbiosis*' in J. Costa-i-Font, C. Courbage and A. McGuire (eds.) '*The Economics of New Health Technologies: Incentives, Organisation and Financing*', Oxford University Press, Oxford and New York.
- Mina, A. and R. Ramlogan (2008) 'Health Innovation Processes at the Public-Private Interface', book chapter in Windrum, P. and P. Koch (eds.), '*Innovation in Public Services: Management, Creativity, and Entrepreneurship*', Edward Elgar, Cheltenham, UK.

### Recent Working Papers

- Tripodi, G., Lamperti, F., Mavilia, R., Mina, A., Chiaromonte, F., Lillo, F., 2022, 'Quantifying knowledge spillovers from advances in negative emissions technologies', LEM Working Paper 2022/17, <https://www.lem.sssup.it/WPLem/files/2022-17.pdf>
- Cirillo, V., Mina, A., Ricci, A., 2022, 'Digital technologies, labour market flows and investment in training: Evidence from Italian employer-employees data', [INAPP Working Paper n. 79](#).
- Cirillo, V., Fanti, L., Mina, A., Ricci, A., 2021, 'Digital technologies and firm performance: Industry 4.0 in the Italian economy', INAPP Working Paper 61. <https://oa.inapp.org/xmlui/handle/123456789/862>
- Iori, M., Martinelli, A., Mina, A., 2021, 'The direction of technical change in AI and the trajectory effects of government funding', LEM Working Paper 2021/41 <http://www.lem.sssup.it/WPLem/files/2021-41.pdf>
- Tagliatalata, J., Mina, A. 2021, 'Innovation, asymmetric information and the capital structure of new firms', LEM Working Paper Series No. 2021/36, <https://www.lem.sssup.it/WPLem/2021-36.html>

- Cirillo, V., Fanti, L., Mina, A., Ricci, A., 2020, 'Digitizing firms: skills, work organization and the adoption of new enabling technologies', INAPP Working Paper 53.  
<https://oa.inapp.org/xmlui/handle/123456789/730>
- Martinelli, A. Mina, A. Moggi, M. 2019, 'The enabling technologies of Industry 4.0: Examining the seeds of the Fourth Industrial Revolution', LEM Working Paper 2019/09,  
<http://www.lem.sssup.it/WPLem/files/2019-09.pdf>
- Mina, A., Lahr, H., 2018, 'The pecking order of innovation finance', *LEM Working paper* 2018/31  
<http://www.lem.sssup.it/WPLem/files/2018-31.pdf> (also: Mina, Andrea and Lahr, Henry, The Pecking Order of Innovation Finance (August 1, 2018). Available at SSRN:  
<https://ssrn.com/abstract=3224441> or <http://dx.doi.org/10.2139/ssrn.3224441>)
- Rocchetta, S., Mina, A., 2018 'Adaptive resilience and technological coherence: empirical evidence from the UK regions', *LEM Working paper* 2018/30, <http://www.lem.sssup.it/WPLem/files/2018-30.pdf>, and *Papers in Evolutionary Economic Geography* n. 17.13.  
<http://econ.geo.uu.nl/peeg/peeg1713.pdf>
- Mina, A. and H. Lahr (2011) 'Venture Capital in Europe: Recovery, Downsizing or Breakdown?', FINNOV FP7 Working Paper 3.2. <http://www.finnov-fp7.com/publications/finnov-discussion-papers/venture-capital-in-europe.html>
- Mina, A. (2010) 'Knowledge and the Evolving Economy', *CBR Working Paper* n. 412.  
<https://www.cbr.cam.ac.uk/wp-content/uploads/2020/08/wp412.pdf>.
- Hughes, A. and Mina, A. (2010) 'The impact of the Patent System on SMEs', *CBR Working Paper* n. 411.  
<https://www.cbr.cam.ac.uk/wp-content/uploads/2020/08/wp411.pdf>
- Wennberg, K., Lee, C., Tether, B. and Mina, A. 'Turning Digital: Diversification in UK Design Consulting', *Imperial College London (Business School) Working Paper, March 2010* and *CBR Working Paper* n. 413. <https://www.cbr.cam.ac.uk/wp-content/uploads/2020/08/wp413.pdf>
- Mina, A., Connell, D., Hughes, A. (2009) 'Models of Technology Development in Intermediate Research Organisations', *CBR Working Paper* n. 396, University of Cambridge. <http://www-eng.cam.ac.uk/CIKC/docs/WP396.pdf>

## CONFERENCES, WORKSHOPS & INVITED SEMINARS

2023

*Invited Seminar*, European Commission Joint Research Centre, Seville, 30 January; *Invited Seminar*, UNU-MERIT, Maastricht, 18 April; *Munich Summer Institute*, Bavarian Academy of Sciences and Humanities, Munich, 24-26 May; *Barcelona School of Economics Summer Forum* (Economics of Science and Innovation), Barcelona, 19-20 June; *DRUID Summer Conference*, NOVA Business School, Lisbon, 10-12 June; *International Conference on Science of Science and Innovation (ICSSI)*, Northwestern University, Chicago, 26-28 June; *22<sup>nd</sup> Journées Louis-André Gérard-Varet Public Economics Conference*, Marseille, 28-30 June; *NBER Summer Institute* (Science Funding), Boston, 20-21 July; 9<sup>th</sup> European Conference on Corporate R&D and Innovation (*CONCORDi* 2023), EC/JRC Seville, 24-26 October.

2022

*Invited Discussant for the Swedish Schumpeter Lecture 2022*, University of Gothenburg, 14 December; *WOMI – Workshop on Medical Innovation 2022*, University of Gothenburg, 12-13 December; *Società Italiana di Economia (SIE) Annual Conference*, University of Turin, 20-22 October; *Strategic Management Society Annual Conference*, London, 17-20 September; *OECD MicroBeRD+ Workshop (Invited External Expert)*, Paris, 12 September; *DRUID Summer Conference*, 13-15 June, Copenhagen Business School, Copenhagen; *Global Conference on Economic Geography*, 7-10 June, University College Dublin & Trinity College Dublin; *Economic History Society Annual Conference*, Robinson College, University of Cambridge, 1-3 April; 'Technology, Employment and Industrial Dynamics: Theory and Empirical Evidence' Workshop, Scuola Superiore Sant'Anna, Pisa, 7-8<sup>th</sup> April; Max Planck for Innovation

and Entrepreneurship Seminar Series, Munich, 27 April; BETA/University of Strasbourg Seminar Series, 9 June (online).

#### 2021

Workshop on Medical Innovation (WOMI2021), University of Gothenburg, 16-17 December (online); 10th *International Conference on Complex Networks and their Applications*, Madrid, Spain, November 30 - December 2; 8th European Conference on Corporate R&D and Innovation (CONCORDi 2021) "Industrial Innovation for Competitive Sustainability", EC/JRC Seville, 22-25 November (online); DRUID Summer Conference, Copenhagen Business School, 18-20 October; 4th 'Rethinking Clusters' Conference 22-23 September, University of Florence (online), Gran Sasso Science Institute Seminar Series, 16 June, (online), SIEPI 'Società Italiana di Economia e Politica Industriale' XIX Annual Workshop, 10-11 June (online); SSSA/ARTIES4.0 Workshop "*Varieties of Technological and Organizational Changes in the Age of Automation and Digitalisation*", Pisa, 27 May; 17th European Network on the Economics of the Firm (ENEF) Conference, 21-22 January Department of Economics, University of Bergamo (online).

#### 2020

5th Geography of Innovation Conference, 29-31 January, University of Stavanger; JRC Brussels Workshop 'Entrepreneurial ecosystems for high growth enterprises', 26-27 February; NBER Summer Institute (Innovation and Productivity), National Bureau of Economic Research, 14-15 July (online); European Economic Association (Virtual) Congress 2020, 24-28 August, 13th Annual Northwestern/USPTO Conference on Innovation Economics (online), 27-28 August, 61st Annual Conference of the Italian Economics Society (SIE), 20-23 October; Invited Seminar at the University of Padua, Department of Economics, 3 November.

#### 2019

Data Science PhD Colloquium, Invited short talk, 13-14 February, Officine Garibaldi, Pisa; Invited Seminar, 26 March, University of Pisa; Copenhagen Business School, Invited Seminar, 28 March, Copenhagen; Invited Senior Discussant at the YETI (Young Economists of Tuscan Institutions) Workshop, 12 April, University of Siena; RENIR/Collegio Carlo Alberto Workshop "A Great Transformation? Workshop on the impact of automation and artificial intelligence on regional economies", 27-28 May, University of Turin; European Meeting on Applied Evolutionary Economics 2019 (EMAEE) "Economics, Governance and Management of AI, Robots and Digital Transformations", 3-5 June, Attenborough Centre for the Creative Arts, SPRU/University of Sussex; DRUID Summer Conference, Copenhagen Business School, 19-21 June; 7th European Conference on Corporate R&D and Innovation (CONCORDi 2019) "Innovation for Industrial Transformation, EC/JRC Seville, 23-25 September; 60th Conference of the Italian Economics Society (SIE), 24-26 October, Univ. of Palermo.

#### 2018

4th Geography of Innovation (GEOINNO) Conference, 31 January-2 February, University of Barcelona; 'Rethinking Clusters', 3-4 May, Department of Economics and Management, University of Florence; DRUID Summer Conference, Copenhagen Business School, 11-13 June; EPO Workshop "Innovation in an International Context: Technological Change, Intellectual Property & the Economy", 13-14 June, University College Dublin; 'Innovation, entrepreneurship and organizational behavior' Workshop, 6-7 December, University Pantheon-Sorbonne, Paris; WOMI Medical Innovation Workshop, 12-14 December, Utrecht University, Utrecht.

#### 2017

Collegio Carlo Alberto Seminar Series, 25 May, University of Turin; MIOIR Anniversary Workshop on 'Knowledge Intensive/Professional Services', University of Manchester, 6 June; DRUID Summer Conference, Stern Business School, New York University, 12-14 June; 'Innovation and Entrepreneurship Conversation' Workshop, Imperial College London/Royal Society, 23-24 June.



2016

WOMI Workshop on Medical Innovation, SPRU/University of Sussex, 15-16 December, Brighton; European Regional Science Association Congress, 23-26 August, Vienna; University of Southampton Business School Seminar Series, 10 March, Southampton.

2015

WOMI Workshop on Medical Innovation, INGENIO/Technical University of Valencia, 3-4 December, Valencia; 2<sup>nd</sup> World Open Innovation Conference (WOIC), 18-20 November, University of California Berkeley/ Santa Clara; EPFL - Ecole Polytechnique Fédérale de Lausanne, Institute of Technology and Public Policy/College of Management of Technology Seminar Series, 23 October, Lausanne; EC FP7 CRE8TV.EU Early Career Researcher Workshop, Manchester Business School, Manchester, 17-18 September (*Invited Senior Discussant*); AoM Annual Meeting, August 7-11, Vancouver, British Columbia; Darden & Cambridge Judge Entrepreneurship and Innovation Research Conference, Cambridge Judge Business School 29-30 June; DRUID Summer Conference, LUISS Guido Carli, Rome, 15-17 June (*Semi-plenary Session Speaker*).

2014

'Innovation and Entrepreneurship in Health Care and Life Sciences' Workshop, School of Business, Economics and Law, University of Gothenburg, 11-12 December; Association of British Pharmaceutical Association (ABPI) SMEs Policy Workshop, London, 11 September; International Schumpeter Society Conference, Friedrich Schiller University, Jena, 27-30 July; DRUID Summer Conference, Copenhagen Business School, Copenhagen, 16-18 June; Darden & Cambridge Judge Entrepreneurship and Innovation Research Conference, Cambridge Judge Business School, 19-20 June; University of Turin, Collegio Carlo Alberto, Economics of Innovation and Knowledge Seminar Series, Turin, 9 April.

2013

UK-IRC 'Profiting from Service Innovation' Workshop, Imperial College, London 9 October; Financial Management Association (FMA) Annual Meeting, Chicago, 16-19 October; CONCORDi-2013 Conference, JRC-IPTS, Seville, 26-27 September; AoM Annual Meeting, Lake Buena Vista, Orlando, 9-13 August; DRUID Summer Conference, ESADE, Barcelona, 17-19 June.

2012

AoM Annual Meeting, Boston, 3-7 August; International Schumpeter Conference, University of Queensland, Brisbane, 2-5 July; 'Open Innovation: New Insights and Evidence', Imperial College London, 25-26 June; DRUID Summer Conference 2012, Copenhagen Business School, Copenhagen, June 19-21 (*Semi-plenary Session Discussant*); SPRU-CENTRIM Freeman Centre Seminar Series, University of Sussex, Brighton, 18 May; EC FP7 'FINNOV - Finance, Innovation and Growth' Final Conference, House of Commons, UK Parliament, and Italian Institute of Culture, London, 1st-2nd February; UK Department of Business, Innovation and Skills (BIS), Invited Seminar, London, 31 January (with A. Hughes); DRUID Winter Conference 2012, Queens College, Cambridge, 19-20 January (*Invited Senior Discussant*).

2011

UK~IRC Innovation Summit, IBM, Hursley ('Servitisation' Parallel Session Chair) 25 November; UK Department of Business, Innovation and Skills (BIS), Invited Seminar, London, 11 November (with A. Hughes); Manchester Institute of Innovation Research, Manchester Business School, Seminar Series, 14 November; EAEPE Annual Conference 'Schumpeter's Heritage - The Evolution of the Theory of Evolution', Vienna, 27-30 October; AoM Annual Conference, San Antonio, Texas, 12-16 August; UK-IRC Open Innovation Workshop, Queens College, Cambridge, 7-8 July; SASE Annual Conference, Universidad Autónoma de Madrid, Madrid, 23-25 June; DRUID Summer Conference 2011, Copenhagen Business School, Copenhagen, 15-17 June; EC FP7 'FINNOV - Finance, Innovation and Growth' Annual Conference, Economics Institute, Prague, 19-20 May; INGENIO (Spanish Council for Scientific Research/Polytechnic University of Valencia) Seminar Series, 14 April; 'Professional Services: Innovation and Practices' UK-IRC and AIM Workshop, Imperial College London Business School, 10-11 March; Friedrich Schiller University/Max Planck Institute for Economics Seminar Series, Jena, 2 February.

2010

Darwin College, University of Cambridge, Research Methods and Proposals Development Workshop, 17 December; Festschrift in Honour of Professor J. S. Metcalfe, Manchester Institute of Innovation Research, Manchester, 11-12 November; 'Innovation, Governance and Finance: Current Issues and New Challenges', Maison des Sciences de L'Homme/CNRS Paris Nord International Conference, Paris, 8-10 November; Academy of Management Annual Meeting, Montreal, 6-10 August; EC FP7 'VICO' Conference, Milan Polytechnic, Milan, 8 July (*Invited External Discussant*) International Schumpeter Society Conference, Aalborg, 21-24 June; DRUID Summer Conference, Imperial College London, 16-18 June (*Plenary session paper*); EC FP7 'FINNOV - Finance, Innovation and Growth' Annual Conference, Sant'Anna School of Advanced Studies, Pisa, 13-14 May; SABIP/UK Intellectual Property Office, London, 11 March; National Physical Laboratory (NPL), Teddington, UK, 25 February; Hauser Review of the UK Innovation Landscape Workshop, 29 January, NESTA, London.

2009

'Art Meets Technology' Workshop, Feldafing, Starnberger See, Munich, 13-16 October; Comparative Analysis of Enterprise Micro Data (CAED) Conference, Hitotsubashi University, Tokyo, 2-4 October; UK-IRC Conference, Imperial College, London, 11-12 June.

2008

BRICK-GREDEG Workshop 'The Dynamics of Knowledge and Innovation in Knowledge-Intensive Industries', BRICK Collegio Carlo Alberto, Moncalieri, Turin, 18-19 December; The 25<sup>th</sup> DRUID Celebration Conference 'Entrepreneurship and Innovation', Copenhagen Business School, 17-20 June; OECD Delegation Visit seminar, Centre for Business Research, 6 February.

2007

Judge Business School/CBR, CIKC Seminar Series, University of Cambridge, 12 December; The Wallenberg Symposium on 'Medicine, Technology and Economics 'Seeking Strategies for Research and Teaching in Converging Fields, Stockholm, 23-26 October; 'Technology, innovation and change in health and healthcare' Symposium, Brocher Foundation, Geneva 18-19 October; EMAEE Conference 'Globalisation, Services and Innovation: The Changing Dynamics of the Knowledge Economy', Manchester Metropolitan University, 17-19 May; CESPRI Seminar Series, Bocconi University, Milan, 7 February.

2006

'From Innovation to Mainstream Healthcare Services: Addressing the Challenges of Translation' Workshop, University of Warwick, 29 November; SPRU 40<sup>th</sup> Anniversary Conference: 'The Future of Science, Technology and Innovation Policy: Linking Research and Practice', 11-13 September; 2.4 DIME Workshop 'The Emergence of Markets and Their Architecture', Paris, 4-5 May; CRIC/IoIR Seminar Series, University of Manchester, Manchester, 13 February.

2002-2005

5<sup>th</sup> Triple Helix Conference 'The Capitalization of Knowledge: Cognitive, Economic, Social & Cultural Aspects', Turin (Italy), 18-21 May 2005; SPRU-CENTRIM Freeman Centre Seminar Series, University of Sussex, Brighton, 25 November 2005; 2<sup>nd</sup> Globelics Conference, Tsinghua University (Beijing, China) 16-20 October 2004; 'Organisations, Innovation and Complexity: New Perspectives on the Knowledge Economy' Workshop, CRIC (Manchester), 9-10 September 2004; 'Healthy Innovation' Workshop, CRIC (Manchester), 8-10 July 2004; 'Organisation of Market Exchange' Workshop, CRIC, University of Manchester, 5-6 June 2003; 'Karl Polanyi' Workshop, CRIC, Univ. of Manchester, 25-28 October 2002.

## Events

- Co-organiser of the first REGIS Summer School (with EPFL, TUM, ZEW and Google), Scuola Superiore Sant'Anna, Pisa, 5-7 July 2023.

- Co-organiser of the 2022 EMbeDS (Economics and Management in the Era of Data Science) Workshop, Pisa, 4-5 July.
- Co-organiser of the workshop ‘Technology, Employment and Industrial Dynamics: Theory and Empirical Evidence, Scuola Superiore Sant’Anna, Pisa, Italy, 7-8 April, 2022.
- Moderator of the Seminar ‘Vaccini e brevetti ai tempi della pandemia: una coesistenza impossibile?’ (in Italian), Scuola Superiore Sant’Anna, 13 May 2021.
- Organiser of the 2019 Workshop on Medical Innovation, Sant’Anna School of Advanced Studies, Pisa, 12-13 December 2019.
- Co-organiser (jointly with N. Matthews, D. Moschella and G. Dosi), 14<sup>th</sup> European Network on the Economics of the Firm (ENEF) Meeting, Sant’Anna School of Advanced Studies, Pisa, September 2016
- Co-organiser (jointly with M. Perkmann), Advanced Institute of Management/FP6-DIME Workshop ‘The Management of University-Industry Centres’, Imperial College London, 27 September 2011.
- Organiser, Innovation and Commercialisation Expert (ICE) Seminar Series, Cambridge Integrated Knowledge Centre, University of Cambridge, 2008 and 2009, and (jointly with A. de Meyer) *CIKC Seminar*, Judge Business School/CBR, University of Cambridge, 12<sup>th</sup> December 2007
- Member of the Scientific Committee of the 5<sup>th</sup> EMAEE (European Meeting on Applied Evolutionary Economics) Conference on Innovation ‘Globalisation, Services and Innovation: The Changing Dynamics of the Knowledge Economy’, Manchester Metropolitan University Business School, 17-19 May 2007
- Co-organiser of the workshop ‘Instituting the Market Process: Innovation, Market Architectures and Market Dynamics (joint initiative of CRIC with LEM, Sant’Anna School of Advanced Studies), Manchester, 7-8<sup>th</sup> December 2006
- Co-organiser of the Workshop ‘The Emergence of Markets and Their Architecture’ (joint initiative of CRIC and CEPN-IIDE, University of Paris 13), Paris, 4-5 May 2006.

## PROJECTS

- (SSSA Contact/Principal Co-Investigator) Erasmus+2020 European Universities Project ‘EELISA’ (European Engineering Learning Innovation and Science Alliance), Project ID 101004081, Total value: € 5m, 1 Nov 2020 - 1 Nov 2023.
- (Co-investigator) MIUR PRIN 2022W2R55L “TELI - Technology, labour, inequality” 2023-2025 (Local Lead: Prof. G. DOSI)
- (Co-investigator) EC EIT Pilot Call: HEI Initiative – Innovation Capacity Building for Higher Education, Project ID 101035811, Total value: € 1.2m. July 2021-July 2023.
- (SSSA Contact/Principal Co-Investigator) EC Horizon2020 “InnoCORE” Project ID 101035811, Total value: € 2m. Feb 2021-Feb 2023.
- (SSSA Contact/Principal Co-Investigator) Erasmus+2020 European Universities Project ‘EELISA’ (European Engineering Learning Innovation and Science Alliance), Project ID 101004081, Total value: € 5m, 1 Nov 2020 - 1 Nov 2023.
- (Co-investigator) MIUR PRIN 201799ZJSN “Technological change, industry evolution and employment dynamics”, 2020-2023 (Local Lead: Prof. D. Moschella).
- (Co-investigator), *Jean Monnet Centre of Excellence on the Regulation of Robotics and AI*, European Commission/ Erasmus+ Programme, Reference: 600295-EPP-1-2018-1-IT-EPPJMO-CoE (total value: € 100.000), 2018-2020.
- (Co-investigator), Industry 4.0 Competence Centre “Advanced Robotics and enabling digital Technologies & Systems 4.0 (ARTES 4.0)”, Italian Ministry of Economic Development (MISE), (total value € 7.5m, 2018-to date.

- (Principal Co-investigator) '*Digital Platforms and Innovation: Case Studies on European SMEs*', JRC-Seville, Ares 3574031-455-2 (Total value: € 15.000), 2017.
- (Principal Co-investigator) '*Financial constraints and firm behaviour: an empirical analysis of the SME Instrument of H2020.*' JRC-Brussels, Tender Ares (2017) 4435812, Contract n. CCR.B.C933770.X1. (Total value: € 15.000), 2017.
- (Co-investigator) '*Global R&D*', joint project with the Centre for Science, Technology, and Innovation Policy/Institute for Manufacturing, HEFCE (Total value: £ 58,000), 2015-2016.
- (Co-Investigator) '*Innovation and Performance in Business Services*', UK Innovation Research Centre, Cambridge/Imperial College Business School, 2009-2013 (Total value: £ 1.4m)
- (Principal Co-investigator) 'Enhancing Value: Getting the Most out of UK Research', Council for Industry and Higher Education, UK, 2011-2012 (Total value: £ 110,000)
- (Cambridge Principal Investigator) 'Capital Markets and Innovation: Financing Business Experimentation in Europe', Work Package 3 of project *FINNOV – Finance, Innovation and Growth: Changing Patterns and Policy Implications*, EC 7<sup>th</sup> Framework Programme, 2009-2012 (Total value: €1,494,870)
- (Co-investigator) '*Cambridge Integrated Knowledge Centre for Photonics and Electronics*', Engineering and Physical Science Research Council (EPSRC), 2007-2012 (Total value: £ 5,172,360)
- (Principal Co-Investigator) 'Corporate Governance and Innovation', Doshisha University, Tokyo, 2011 (Total value: £ 15.000)
- (Co-Investigator) 'University Research Centres: Organizational innovation at the university-industry interface' DIME (extension of EC 6<sup>th</sup> Framework Programme: Dynamics of Institutions and Markets in Europe), 2009-2010 (Total value: €119,800).
- (Researcher) 'A Study on Ireland's International Engagement in Science, Technology and Innovation', FORFÁS, Department of Enterprise, Trade and Employment, Ireland, May-August 2007
- (Researcher) 'Specific Analysis on the Regional Dimensions of Investment in Research', ETEPS (European Techno-Economic Policy Support Network) project, January-April 2007
- (Researcher) 'Skills and Innovation', Department of Trade and Industry (DTI), Feb-September 2005.

### **Scholarships**

- *ESRC MSc Scholarship*, SPRU (University of Sussex), 2000
- *Erasmus Scholarship*, University Jean Moulin Lyon 3, Lyon, France, 1997
- *SAI Insurance Group Scholarship*, won on a competition basis every year between 1994 and 1998.

### **Prior non-academic jobs**

- Sofres - Lyon (Lyon, France): Social and market research investigator, 1998
- University of Turin, Faculty of Medicine (Turin, Italy): Assistant Secretary, 1996.

### **SERVICE**

#### **Editorial activities**

- Associate Editor of *Industry and Innovation*, 2017-2020.
- Guest editor of the special issue 'Innovation and Health: Pathways to New Technologies', *Economics of Innovation and New Technology*, Vol. 18, Issue 5, 2009.
- Co-editor of the Manchester Institute of Innovation Research *Working Paper Series*, June – Sept 2007.

#### **Memberships to Professional Associations:**

- European Economic Association (EEA)
- American Economic Association (AEA)

- Royal Economic Society (RES)
- International Schumpeter Society (ISS)
- Danish Research Unit on Industrial Dynamics (DRUID)
- Società Italiana degli Economisti (SIE)

### **Refereeing activities**

- (1) Journals (in alphabetical order): *Cambridge Journal of Economics, Economic Letters, Economic Policy, Economics of Innovation and New Technology, Entrepreneurship Theory and Practice, European Journal of Economic and Social Systems, Health Economics, Journal of Chinese Economic and Business Studies, Journal of Business Research, Journal of Economic Geography, Journal of Economics and Statistics, Journal of Engineering & Technology Management, Journal of Evolutionary Economics, Journal of Industrial and Business Economics, Journal of Product Innovation Management, Industrial and Corporate Change, Industry and Innovation, Organization Science, Organisation Studies, Oxford Economic Papers, PLOS ONE, Public Management Review, Regional Studies, Research Evaluation, Research Policy, R&D Management, Science and Public Policy, Small Business Economics, Social Science and Medicine, Spatial Economic Analysis, Strategic Organization, Systems Research and Behavioural Science, Technological Forecasting and Social Change, Technovation, Telecommunications Policy.*
- (2) Publishers: *Cambridge University Press, Palgrave Macmillan.*
- (3) Government and Research Funding Bodies: *European Commission, Social Science and Humanities Framework Programme (EC-FP7-SSH), Italian Ministry of Education, Universities and Research (MIUR), Royal Society, UK Department of Business, Innovation and Skills, UK Economic and Social Research Council (ESRC).*

### **Other Academic Service**

- Member of the Executive Board of the EELISA European University, 2020 to date
- Academic Board Member of the SSSA PhD in Economics (2017-to date) and the SSSA PhD in Health Science, Technology and Management (2020 to date)
- Member of the Academic and Research Board, and SSSA Business Development Node Coordinator, of ARTES 4.0 Advanced Robotics and enabling digital Technologies & Systems 4.0, Centro di Competenza ai sensi dell'art. 1, c. 115, L. 11/12/2016, n. 232 e del DD di Concessione della DGPICPMI Prot. 09/2019 del 29/4/2019, CUP: B81J18000090008, 2019-2022
- Member of the EURA Jean Monnet Centre of Excellence on the Regulation of Robotics and Artificial Intelligence, 2019 to 2022
- Teaching Co-ordinator for the SSSA Economics and Management College students, 2016-2019
- Secretary and Member of the G.L.S. Shackle Committee, St Edmund's College, Cambridge, 2016-17
- Member of the Centre for Business Research (CBR) Exe Committee, Univ. of Cambridge 2015 to date
- Internal PhD Examiner (University of Cambridge, Sant'Anna School of Advanced Studies)
- External PhD Examiner (University of Manchester, University of Aalborg, University of Turin, IMT School of Advanced Studies, University of Siena, Bocconi University)
- Management Studies Tripos Internal Review Committee (Cambridge Judge Business School), 2016
- Engineering Studies Tripos IIA Group Examiner (University of Cambridge), 2014-16
- Centre for Science and Policy, Policy Fellows Network (University of Cambridge), 2008-2016.

### **Other Services**

- Member of the UK Council for Industry and Higher Education (CIHE)/UK-IRC Working group of the *Task Force 'Enhancing Value: Getting the Most out of UK Research'*, 2010-2013
- External Expert for the Italian National Agency for the Evaluation of Universities and Research Institutes, 2013-15.

### **Press (authored articles)**

- *VoxEU*, 19 July 2020: <https://voxeu.org/article/causal-effects-rd-grants>

- *LaVoce*, 31 July 2020: <https://www.lavoce.info/archives/68838/buoni-investimenti-il-sostegno-a-ricerca-e-sviluppo-delle-pmi/>

### **Media coverage**

Coverage of Horizon2020 European Universities Project 'EELISA':

- *ANSA*: [https://www.ansa.it/europa/notizie/rubriche/europa\\_delle\\_regioni/2020/07/14/ue-premia-tre-atenei-toscani-1eb63937-634d-437b-893e-0d56e951c3c3.html](https://www.ansa.it/europa/notizie/rubriche/europa_delle_regioni/2020/07/14/ue-premia-tre-atenei-toscani-1eb63937-634d-437b-893e-0d56e951c3c3.html), *Il Messaggero*: [https://www.ilmessaggero.it/speciali/quieuropa/ue\\_premia\\_tre\\_atenei\\_toscani-5346372.html](https://www.ilmessaggero.it/speciali/quieuropa/ue_premia_tre_atenei_toscani-5346372.html), *La Gazzetta del Mezzogiorno*: <https://www.lagazzettadelmezzogiorno.it/news/europa-altre-news/1238686/ue-premia-tre-atenei-toscani.html>, *La Nazione*: <https://www.lanazione.it/cronaca/normale-e-sant-anna-selezionate-per-un-network-internazionale-dalla-commissione-europea-1.5316491>, *Telegranducato*: <https://www.telegranducato.it/2020/07/13/normale/>.

Coverage of the paper 'The causal effects of R&D grants: evidence for a regression discontinuity':

- *Sole24 Ore*, 13 June 2020

Coverage of 'Venture capital investments and the technological performance of portfolio firms':

- *San Francisco Chronicle*, 11 December 2015
- *Business Weekly*, 14 December 2015
- *Cambridge Network*, 15 December 2015

Coverage of the UK-IRC/CIHE 'UK R&D Landscape' Report:

- *The Guardian*, 13 May 2014
- *Finfacts* 23 June 2012