

Antonio De Marco, Ph.D.

Curriculum Vitae et Studiorum

Personal info

Address	Interuniversity Department of Regional and Urban Studies and Planning , Politecnico di Torino, Viale Pier Andrea Mattioli 39, 10125, Torino, Italy
E-mail	antonio.demarco@polito.it
Web	is.polito.it/people/antonio-de-marco
ORCID	0000-0001-8623-1069

Short bio

Antonio De Marco is Associate Professor at the Interuniversity Department of Regional and Urban Studies and Planning of Politecnico di Torino, holds a Doctorate in Economics and Complexity at Collegio Carlo Alberto and a Master of Science in Management Engineering at Politecnico di Torino. He contributed to research projects funded by the European Investment Bank, the European Patent Office, the Joint Research Center, the European Commission.

He is Associate Editor of the International Journal of Innovation and Technology Management and serves as reviewer for international journals such as Technological Forecasting and Social Change, the Journal of Technology Transfer, Technovation, Economics of Innovation and New Technology, the Journal of Engineering and Technology Management, Management Decision, the Journal of Industrial and Business Economics.

His research interests are in the areas of the economics of innovation, the knowledge spillovers, the markets for technology, the management of intellectual property rights, and the economics of cities and urban areas. Such topics are investigated with an empirical perspective and micro-econometric techniques. His scientific works have been published in refereed international journals such as Research Policy, the Journal of Economic Geography, Technological Forecasting and Social Change, Annals of Economics and Statistics, Economics of Innovation and New Technology.

Work experience

2024	Associate Professor , <i>Interuniversity Department of Regional and Urban Studies and Planning, Politecnico di Torino</i>
2021–2024	Tenure-track Assistant Professor , <i>Interuniversity Department of Regional and Urban Studies and Planning, Politecnico di Torino</i>
2018–2021	Assistant Professor , <i>Department of Management and Production Engineering, Politecnico di Torino</i>
2017–2018	Postdoctoral Research Fellow , <i>Department of Management and Production Engineering, Politecnico di Torino</i>
2015–2016	Visiting Fellow , <i>Institute of Technology and Public Policy, École Polytechnique Fédérale de Lausanne</i>
2012–2017	Research Fellow , <i>Department of Management and Production Engineering, Politecnico di Torino</i>

Education

- 2013–2017 **Vilfredo Pareto Doctorate in Economics and Complexity**, *Collegio Carlo Alberto*
2007–2012 **Master of Science in Management Engineering**, *Politecnico di Torino*

Teaching

- 2024 **Accounting and Corporate Finance**, *Politecnico di Torino*
2018–2024 **Economics and Business Organization**, *Politecnico di Torino*
2018–2023 **Urban Economics**, *Politecnico di Torino*

Research projects

- 2022–2024 **The European cleantech industry, the EU green deal and SME equity demand**, *European Investment Bank*
2018–2020 **University research funding, patenting and technological impact**, *European Patent Office*
2018–2019 **Investigating the capabilities and the competitiveness of the EU vis-à-vis its main competitors in developing civil technologies with critical spillovers to the defence sector**, *Joint Research Center, European Commission*
2017–2018 **Assessing the innovation capability of EU companies in developing dual-use technologies**, *Joint Research Center, European Commission*
2015–2016 **An analysis of the role and engagement of universities with regard to participation in the framework programmes**, *Directorate General for Research and Innovation, European Commission*
2012–2015 **Intellectual property lab: research initiative for the development and application of advanced techniques for patent data intelligence**, *Finmeccanica*

Conferences

- 2024 **Sixty-three ERSA Congress on Regional Science Dialogues for Peace and Sustainable Development**, *European Regional Science Association*, Terceira, Azores
Seventh Geography of Innovation Conference, *University of Manchester*, Manchester, United Kingdom
2022 **Seventeenth EPIP Conference on Opening IP for a Better World**, *European Policy for Intellectual Property Association*, Cambridge, United Kingdom
2021 **Techspace Workshop on Advancing Indicators of Regional Structural Change**, *University of Bremen and Leibniz University of Hannover*, Jena, Germany
2019 **T2S Annual Conference on Technology Transfer, Innovation Policy, and Entrepreneurship**, *Technology Transfer Society*, Toronto, Canada
2018 **Fifty-eighth ERSA Congress on Places for People: Innovative, Inclusive, and Liveable Regions**, *European Regional Science Association*, Cork, Ireland
Seventeenth Schumpeter Conference on Innovation, Catch-up, and Sustainable Development, *International Joseph Alois Schumpeter Society*, Seoul, South Korea
2016 **Thirteen ENEF Meeting on Firms, Technology, and the Quest for Sustainable Development**, *European Network on the Economics of the Firm*, Moncalieri, Italy
Sixteenth Schumpeter Conference on Building Bridges, *International Joseph Alois Schumpeter Society*, Montréal, Canada

- 2015 **Sixteenth International CINET Conference on Pursuing Innovation Leadership, Continuous Innovation Network**, Stockholm, Sweden
FINKT Conference on Knowledge Transfer and Entrepreneurship, *Università di Bologna*, Rimini, Italy
- 2013 **T2S Annual Conference on Technology Transfer, Entrepreneurial Activity, and Regional Competitiveness**, *Technology Transfer Society*, Bergamo, Italy

Awards

- 2018 **Bernardo Nobile Prize**, *Area Science Park*

Scientific publications

- 2024 Buzzacchi, L., De Marco, A., and Pagnini, M. Agglomeration and the Italian north-south divide. *Journal of Economic Geography*, 24(5):707–728
De Marco, A. and Caviggioli, F. University technological output and industrial specialization in Italian regions. *Annals of Economics and Statistics*, 153:135–172
- 2023 Caviggioli, F., Colombelli, A., De Marco, A., Scellato, G., and Ughetto, E. The impact of university patenting on the technological specialization of European regions: a technology-level analysis. *Technological Forecasting and Social Change*, 188:122216
- 2022 Buzzacchi, L., De Marco, A., Governa, F., and Salone, C. The shift of the triangle: density and economic transformation in northern Italy. *Review of Industrial Economics and Policy*, 43(1):37–79
Caviggioli, F., Colombelli, A., De Marco, A., Scellato, G., and Ughetto, E. Co-evolution patterns of university patenting and technological specialization in European regions. *The Journal of Technology Transfer*, 48(1):216–239
Caviggioli, F., De Marco, A., Gkotsis, P., Scellato, G., and Vezzani, A. Dual use inventions: identification and characterization using patent data. *Economics of Innovation and New Technology*, 32(6):804–825
- 2021 Colombelli, A., De Marco, A., Paolucci, E., Ricci, R., and Scellato, G. University technology transfer and the evolution of regional specialization: the case of Turin. *The Journal of Technology Transfer*, 46(4):933–960
- 2020 Caviggioli, F., De Marco, A., Montobbio, F., and Ughetto, E. The licensing and selling of inventions by US universities. *Technological Forecasting and Social Change*, 159:120189
Caviggioli, F., Colombelli, A., De Marco, A., and Paolucci, E. How venture capitalists evaluate young innovative company patent portfolios: empirical evidence from Europe. *International Journal of Entrepreneurial Behavior & Research*, 26(4):695–721
- 2017 De Marco, A., Scellato, G., Ughetto, E., and Caviggioli, F. Global markets for technology: evidence from patent transactions. *Research Policy*, 46(9):1644–1654
Caviggioli, F., De Marco, A., Scellato, G., and Ughetto, E. Corporate strategies for technology acquisition: evidence from patent transactions. *Management Decision*, 55(6):1163–1181
- 2016 Caviggioli, F., De Marco, A., Rogo, F., and Scellato, G. Patenting strategies and characteristics of declared inventions in the Long Term Evolution standard. *R&D Management*, 46(2):664–676

Proceedings

- 2021 Buzzacchi, L., De Marco, A., and Pagnini, M. Agglomeration economies and the italian north-south divide. In *Proceedings of the Forty-second AISRE Annual Scientific Conference*. Italian Association of Regional Sciences
- D’Amico, E., Colombelli, A., and De Marco, A. Technological specialization and the birth of AI start-ups: an empirical analysis of Italian provinces. In *Proceedings of the Forty-second AISRE Annual Scientific Conference*. Italian Association of Regional Sciences
- 2015 Caviggioli, F., Colombelli, A., De Marco, A., and Paolucci, E. How venture capitalists evaluate continuous innovation: empirical evidence on technology-based start-up patent portfolios. In *Proceedings of the Sixteenth International CINET Conference*. Continuous Innovation Network
- 2013 Caviggioli, F., De Marco, A., Rogo, F., and Scellato, G. Patenting strategies and standard-setting processes in the telecommunication industry: evidence from the long term evolution standard. In *Proceedings of the Fifth ZEW-MACCI Conference*. Centre for European Economic Research

Reports

- 2016 De Marco, A., Loccisano, S., and Scellato, G. Trasferimento tecnologico ed attività di ricerca collaborativa nell’ambito dei progetti europei. In Ramaciotti, L. and Daniele, C., editors, *Tredicesimo Rapporto Netval sulla Valorizzazione della Ricerca Pubblica Italiana*
- 2015 De Marco, A., Loccisano, S., and Scellato, G. L’attività brevettuale degli atenei italiani: analisi delle collaborazioni e della specializzazione tecnologica. In Ramaciotti, L. and Daniele, C., editors, *Dodicesimo Rapporto Netval sulla Valorizzazione della Ricerca Pubblica Italiana*

Working papers

- 2024 Buzzacchi, L., Caviggioli, F., De Marco, A., and Milone, F. The causal nexus between university knowledge externalities and technological specialization in European regions.
- Buzzacchi, L., De Marco, A., and Pagnini, M. Geographical distance, borders, agglomeration, and innovation.
- Buzzacchi, L. and De Marco, A. Measuring technological importance and knowledge interdependence through patent citations.
- Buzzacchi, L., De Marco, A., and Milone, F. Estimating the economic impact of the war in Ukraine with nightlights data.
- Buzzacchi, L., Croce, A., De Marco, A., and Ughetto, E. Knowledge spillovers from green technologies: do technological importance, relatedness, and geographical proximity matter?
- 2022 Colombelli, A., D’Amico, E., and De Marco, A. Regional branching and key enabling technologies: an empirical analysis of technological specialization in European provinces.
- Fontana, F., De Marco, A., Scellato, G., and Ughetto, E. Finance, technology, and markets: pricing intangible assets and evaluating firms value through venture capital investments.
- 2019 Battaglia, D., Caviggioli, F., and De Marco, A. Global versus local star inventors: human capital and firm innovation activities.

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