

PERSONAL INFORMATION	Francesco Crespi
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CURRENT POSITION	Full professor Public Economics
RESEARCH TOPICS / EXPERIENCES	<ul style="list-style-type: none"> ▪ Economics and Policy of Innovation ▪ Science and Technology Policy ▪ Green technologies and sustainable transition ▪ Digital technologies and digital transformation

EDUCATION AND TRAINING

2006	PhD in Economics, Roma Tre University
2003-2004	Visiting PhD student - Marie Curie Fellow Manchester Institute of Innovation Research, University of Manchester (UK)
2002	MA in Economics, Coripe Piemonte
2001	BA in Economics, Roma Tre University

ACADEMIC EXPERIENCE

since 2018/06/01	Full Professor of Public Economics
	Department of Economics, Roma Tre University, Rome
since 2020/01/01	Associate Editor
	International journal <i>Structural Change and Economic Dynamics</i> (Elsevier)
From 2023/06 To 2023/09	Visiting Professor
	Scuola Normale Superiore
From 2018/02 To 2020/12	Head of Quality Management
	Roma Tre University, Rome
From 2015/02 To 2018/05	Associate Professor of Public Economics
	Department of Economics, Roma Tre University, Rome

From 2008/12 To 2015/01	Assistant Professor of Public Economics
	Department of Economics, Roma Tre University, Rome

HONOURS, AWARDS,
MEMBERSHIPS, OTHER
QUALIFICATIONS

	Member of the: European Association of Environmental and Resource Economists, Società Italiana di Economia, Società Italiana di Economia Pubblica
	Research Associate at the Bureau of Research on Innovation, Complexity and Knowledge (BRICK), Collegio Carlo Alberto https://brick.carloalberto.org/
	Member of SEEDS - Interuniversity research centre on Sustainability, Environmental Economics and Dynamics Studies http://www.sustainability-seeds.org/
	Faculty member of the PhD program in Economics of Roma Tre University
	Referee for the following scientific journals: Industrial and Corporate Change, Economics of Innovation and New Technologies, Research Policy, Journal of Economic Geography, Journal of Evolutionary Economics, International Review of Applied Economics, Structural Change and Economic Dynamics, Small Business Economics, British Journal of Management, Regional Studies, Technological Forecasting and Social Change, International Economics and Economic Policy, Industry and Innovation, Ecological Economics, The B.E. Journal of Economic Analysis and Policy, Journal of Cleaner Production, Energy Policy, Journal of Environmental Planning and Management, Social Indicators Research, Energy Research and Social Science; Environmental and Resource Economics, Energy Economics, Journal of Small Business Management, Eurasian Business Review.

Publications

Journal Articles

1. Caravella, S., Crespi, F., Cucignatto, G., Guarascio, D. (2024). Technological sovereignty and strategic dependencies: The case of the photovoltaic supply chain. *JOURNAL OF CLEANER PRODUCTION*, 434, 140222
2. Caravella, S., Cirillo, V., Crespi, F., Guarascio, D., Menghini, M. (2023). The diffusion of digital skills across EU regions: structural drivers and polarisation dynamics. *REGIONAL STUDIES, REGIONAL SCIENCE*, 10(1), 820-844.
3. Caravella, S., Cerra, R., Crespi, F., Guarascio, D., Menghini, M. (2023). La diffusione delle competenze digitali in Italia e in Europa: divari territoriali e sociali. *RIVISTA DI POLITICA ECONOMICA*, 2023(1), 39-62.
4. Caravella, S., Crespi, F. (2022) On the growth impact of different eco-innovation business strategies. *Economia Politica* 39, 657–683.
5. Antonelli C., Crespi F., Quatraro F. (2022), Knowledge complexity and the mechanisms of knowledge generation and exploitation: The European evidence, *Research Policy*, *Research Policy* 51 (8), 104081
6. Crespi F., Caravella S., Menghini M., Salvatori C. (2021), European Technological Sovereignty: An emerging framework for policy strategy, *Intereconomics* 56 (6), 348-354.
7. Caravella S., Crespi F., Costantini V. (2021), Mission-oriented policies and technological sovereignty: The case of climate mitigation technologies, *Energies* 14 (20), 6854.
8. Caravella S., Crespi F. (2021) The role of public procurement as innovation lever: evidence from Italian manufacturing firms, *Economics of Innovation and New Technology*, 30:7, 663-68.
9. S Caravella, F Crespi, D Guarascio, M Tubiana (2020), Heterogeneity in the demand-growth relationship at the firm level: the role of demand sources and innovation/knowledge characteristics, *Economics of Innovation and New Technology*, 30 (5), 516-535.
10. Caravella S., Crespi F. (2020), Unfolding heterogeneity: the different policy drivers of different eco-innovation modes, *Environmental Science and Policy* 114, 182-193.
11. Crespi, F., Liberati, P., Paradiso, M., Scialà, A., & Tedeschi, S. (2020). Smokers are different: The impact of price increases on smoking reduction and downtrading. *Economic Modelling*, 97, 326-334.
12. Costantini V., Crespi F., Paglialunga E., Sfoma G, (2020) System Transition and Structural Change Processes in the Energy Efficiency of Residential Sector: Evidence from EU Countries, *Structural Change and Economic Dynamics* 53, 309-329.
13. Crespi F., Guarascio D. (2019), The demand-pull effect of public procurement on

innovation and industrial renewal, *Industrial and Corporate Change*, 28 (4), 793–815.

14. Costantini V., Crespi F., Paglialunga E. (2019), Capital-energy substitutability in manufacturing sectors: methodological and policy implications, *Eurasian Business Review* 9 (2), 157-182

15. Costantini V., Crespi F., Paglialunga E. (2018), The employment impact of private and public actions for energy efficiency: Evidence from European industries, *Energy Policy*, Volume 119, 250-267

16. Costantini V., Crespi F., Palma A., (2017), Characterizing the policy mix and its impact on eco-innovation: a patent analysis of energy-efficient technologies, *Research Policy*, 46 (4), 799-819.

17. Antonelli C., Crespi F., Mongeau C., Scellato G. (2017), Knowledge Composition, Jacobs Externalities and Innovation Performance in European Regions, *Regional Studies*, 51 (11), 1708-172.

18. Costantini V., Crespi F., Marin G., Paglialunga E. (2017), Eco-innovation, sustainable supply chains and environmental performance in European industries, *Journal of Cleaner Production*, 155, 141-154.

19. Crespi F. (2016), Policy complexity and the green transformation of the economies as an emergent system property, *Environmental Economics and Policy Studies* 18 (2), pp. 143-157.

20. Crespi F., Ghisetti C., Quatraro F., Environmental and innovation policies for the evolution of green technologies: a survey and a test, *Eurasian Business Review* 5, Issue 2, 343-370.

21. Borghesi S., Crespi F., D'Amato A., Mazzanti M., Silvestri F. (2015), Carbon abatement, sector heterogeneity and policy responses: Evidence on induced eco innovations in the EU, *Environmental Science & Policy* 54 (2015) 377–388.

22. Antonelli C., Crespi F., Scellato G. (2015), Productivity Growth Persistence: Firm Strategies, Size and System Properties, *Small Business Economics*, 45 (1), 129-147.

23. Costantini V., Crespi F., Martini C., Pennacchio L., (2015), Demand-pull and technology-push public support for eco-innovation: The case of the biofuels sector, *Research Policy* 44 (3), 577-595.

24. Costantini V., Crespi F., Curci, Y., (2015), A keyword selection method for mapping technological knowledge in specific sectors through patent data: the case of biofuels sector, *Economics of Innovation and New Technologies* 24(4) pp. 282-308.

25. Costantini V., Crespi F. (2015), European enlargement policy, technological capabilities and sectoral export dynamics, *Journal of Technology Transfer* 40(1), 25-69.

26. Antonelli C., Crespi F. (2013), The Matthew Effect in R&D Public Subsidies: the case of Italy, *Technological Forecasting and Social Change*, 80 pp. 1523-1534.

27. Borghesi S., Costantini V., Crespi F., Mazzanti M.(2013), Environmental innovation and socio-economic dynamics in institutional and policy contexts, *Journal of Evolutionary Economics*, 23(2), 241-245.
28. Crespi F., Quatraro F. (2013), Systemic technology policies: Issues and instruments, *Technological Forecasting and Social Change*, 80, pp. 1447–1449.
29. Costantini V., Crespi F. (2013), Public policies for a sustainable energy sector: regulation, diversity and fostering of innovation, *Journal of Evolutionary Economics*, 23(2), 401-429.
30. Antonelli C., Crespi F.(2012), Matthew effects and R&D subsidies: knowledge cumulability in high-tech and low-tech industries, *Giornale degli Economisti e Annali di Economia*, 71 - N. 1 pp. 5-31.
31. Antonelli C., Crespi F., Scellato G.(2013), Internal And External Factors In Innovation Persistence, *Economics of Innovation and New Technology*, 22(3), 256-280.
32. Crespi F.(2013), Gli effetti della crisi finanziaria del 2007 sugli Enti locali italiani, *Rivista di Studi Politici*, Anno XXV - Aprile/Giugno.
33. Antonelli C., Crespi F., Scellato G.(2012), Inside Innovation Persistence: New Evidence from Italian Micro-data, *Structural Change and Economic Dynamics*, 23, 341–353.
34. Crespi F., Scellato G. (2010), Ownership Structure, Internal Financing and Investment Dynamics, *The Manchester School* 78 (3), pp.242-258.
35. Archibugi D., Crespi F., Denni M., Filippetti, A. (2009), La capacità tecnologica delle nazioni: una rassegna degli indicatori sintetici, *QA – Rivista dell'Associazione Rossi Doria*, 2, pp. 65-101.
36. Crespi F., Di Majo A., Paziienza M.G. (2009), La riforma italiana della tassazione delle imprese e i suoi effetti sulle decisioni di investimento, *Economia Pubblica*, XXXIX (3-4), 91-115.
37. Costantini V., Crespi F. (2008), Environmental regulation and the export dynamics of energy technologies, *Ecological Economics* 66 (2-3), pp. 447-460.
38. Crespi F., Pianta M. (2008), Demand and Innovation in Productivity Growth, *International Review of Applied Economics* 22 (6), pp.655-672.
39. Crespi F., Pianta M. (2008), Diversity in innovation and productivity in Europe, *Journal of Evolutionary Economics* 18 (3-4), pp. 529-545. Reprinted in: Cantner U., Gaffard J., Nesta L. (Eds.), *Schumpeterian Perspectives on Innovation, Competition and Growth*, Springer-Verlag, Berlin Heidelberg, 2009.
40. Costantini V., Crespi F. (2008), Environmental policies and the trade of energy technologies in Europe, *International Journal of Global Environmental Issues* 8 (4), pp. 445-

460.

41. Crespi F., Pianta M. (2008), New Processes and New Products in Europe and Italy, *Rivista di Politica Economica*, vol. II –Marzo-Aprile, pp.119-146.

42. Crespi F., Pianta M. (2007), Demand and Innovation in European Industries, *Economia Politica –Journal of Analytical and Institutional Economics-* n.1 Aprile, pp. 79-112.

Books

Crespi F., Quatraro F. (Eds) 2015, *The Economics of Knowledge, Innovation and Systemic Technology Policy*, London, Routledge.

Book Chapters

1. Caravella, S., Crespi, F., Menghini, M., Monni, S. (2023). The mediating role of export in the innovation–growth nexus: the case of eco-innovation. In F.J. Díaz López, M. Mazzanti and R. Zoboli, *Handbook on Innovation, Society and the Environment* (pp. 51-66), Elgar.

2. Crespi, F., Ruggero, M., Scellato, G. (2022). Innovation Persistence. In Cristiano Antonelli (Ed.), *Elgar Encyclopedia on the Economics of Knowledge and Innovation* (pp. 221-228).

3. Caravella S., Crespi F., Prezioso S., *La resilienza delle imprese italiane: mutamenti e strategie adottate*. In: *La resilienza delle imprese italiane durante e dopo la lunga crisi*, Caravella S., Prezioso S. (a cura di) (2021). Rubettino Editore, Soveria Mannelli (pp.65-110).

4. Costantini V., Crespi F., Marin G., Paglialonga E. (2020), Diffusion pathways of eco-innovations in global supply chains. In: Ernest Gnan; Christoph Schneider (Eds.) - *Schwerpunkt Außenwirtschaft 2019/2020: International trade and sustainable development*, Facultas Verlags, Wien.

5. Caravella, S., Crespi, F. (2018), On the prevalence of tax tools in Italian industrial policy. In A. Scialà (a cura di), *Italian Fiscal Policy Review* (2017), Roma Tre Press, Università degli studi Roma Tre.

6. Crespi F. (2015), A systemic policy perspective for the transition towards the green economy, in Cedefop – OECD, *Green skills and innovation for inclusive growth*. Luxembourg: Publications Office of the European Union.

7. Costantini V., Crespi F., Palma A. (2014), Mapping innovation systems through patent analysis: the case of energy efficiency in the residential sector, in Patrucco P.P. (Ed.), *The economics of knowledge generation and distribution: the role of interactions in the system dynamics of innovation and growth*, London, Routledge.

8. Costantini V., Crespi F., Orsatti G., Palma A. (2014), Policy Inducement Effects in Energy Efficiency Technologies. An Empirical Analysis of the Residential Sector in: *The Economics of Green Energy and Efficiency*, Ansuategi A., Delgado J. Galarraga I. (Eds),

Berlin/Heidelberg Springer.

9. Crespi F., Scellato G. (2014), Knowledge cumulability and the persistence of innovation, in Antonelli C., Link A. (Eds.), The Routledge Handbook of the Economics of Knowledge, London, Routledge.

10. Crespi F., (2013), Environmental policy and induced technological change in European industries, in Costantini V. and Mazzanti M.(Eds.), The dynamics of environmental and economic systems: innovation, environmental policy and competitiveness, Berlin/Heidelberg, Springer.

11. Costantini V., Crespi F., Curci Y., (2013), BioPat: an investigation tool for the analysis of industry evolution, technological paths and policy impact in the biofuels sector, in Costantini V. and Mazzanti M.(Eds.), The dynamics of environmental and economic systems: innovation, environmental policy and competitiveness, Berlin/Heidelberg, Springer.

12. Di Majo A., Paziienza M.G., Crespi F., (2012), La tassazione d'impresa: le riforme continuano, in Trupiano G. (a cura di), La Manovra Finanziaria 2012-2014, Roma, Aracne editrice.

13. Di Majo A., Citton A., Crespi F., (2011), La struttura della tassazione dei risultati economici d'impresa: plus ça change, plus c'est la même chose, in Trupiano G. (Ed.), La Manovra Finanziaria 2011-2013, Roma, Aracne editrice.

14. Costantini V., Crespi F., Zezza A. (2010), Biofuels public support and technological specialisation in the energy sector, in Montini A., Mazzanti M. (Eds.): Environmental Efficiency, Innovation and Economic Performance, London, Routledge.

15. Crespi F. (2008), Il sistema innovativo italiano, in Fondazione COTEC, Libro verde sull'innovazione, Milano, Edizioni Il Sole 24 Ore.

16. Crespi F., Di Majo A. (2008), La tassazione delle imprese nella Legge finanziaria 2008, in Trupiano G. (a cura di), La Legge finanziaria 2008, Roma, Aracne editrice.

17. Crespi F. (2007), IT services and productivity in European Industries, in Kox H.L.M., Rubalcaba L. (Eds.), Business services in European economic growth, Palgrave Mac Millan, London.