

# Curriculum Vitæ et Studiorum

MARIA ENRICA VIRGILLITO

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## Contact details

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IDEAS-REPEC profile: <https://ideas.repec.org/f/pvi341.html>

## Current position

November 2022: Associate Professor in Economics, Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

## Affiliations

March 2017 – : Global Labour Organization Fellow.

## Eligibility

*Abilitazione Scientifica Nazionale, Prima Fascia, 13/A1 (Economia Politica), 13/A2 (Politica Economica), 13/A4 (Economia Applicata)* – National eligibility for Full Professorship in “Economics”, “Economic Policy” and “Applied Economics”.

## Past positions

November 2019 – November 2022: (Tenure-track) Assistant Professor in Economics, Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

March 2017 – November 2019: (Junior) Assistant Professor in Economic Policy, Department of Economic Policy, Università Cattolica del Sacro Cuore, Milan, Italy.

October 2016 – February 2017: Research Fellow, Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

## Education

2016: PhD in Economics, Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy.<sup>1</sup>

Thesis title: *Essays on economic coordination and change: from industry and labour markets to macroeconomic regimes of growth.*

Supervisor: Prof. Giovanni Dosi

Committee: Prof. Russell Cooper, Prof. Richard Freeman, Prof. Francisco Louçã, Prof. Alessandro Nuvolari, Prof. Angelo Secchi.

2013: M.Sc. in Economics: jointly held by *Laboratory of Economics and Management, Scuola Superiore Sant'Anna* and *Faculty of Economics, University of Pisa*, Italy.

Final mark: 110/110 *summa cum laude*.

Dissertation title: *“Looking for the roots of economic fluctuations: a formal exploration of ‘Classic’ and Keynesian endogenous business cycles”.*

a.y. 2011-2012 *Excellence Path - Master of Science in Economics.*

Requirements: Exams average mark of at least 28/30 and a minimum mark of at least 26/30.

Dissertation title: *“Economic crisis or crisis of Economic Theory: a dissertation on Minsky’s theoretical contribution”.*

2011: B. S. in Economics (*Laurea Triennale in Scienze Economiche*) at *Faculty of Economics, University of Pisa*, Italy.

Final mark: 110/110 *summa cum laude*

Dissertation: *Il ruolo della politica fiscale dell’UE: le vie d’uscita dalla crisi.*

2008: High School Diploma at *Liceo Scientifico E. Fermi* (science-oriented), Paternò, Italy.

Final mark: 100/100 *summa cum laude*.

## Visiting periods

June 2024 - *Research Center for Technological Innovation, Tsinghua University*, Peking, CHN.

February 2024 - *Haas School of Business, University of California*, Berkeley, US.

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<sup>1</sup>Winner of a three years national scholarship.

March 2023 - Visiting Researcher at *Instituto de Economía y Finanzas (IEF)*, Facultad de Ciencias Económicas, Universidad Nacional de Córdoba, AR.

February 2019 - April 2019: Visiting Researcher at *ISEG*, Lisbon School of Economics and Management, Lisbon, PT.

May 2016 - July 2016: Research Fellow at *Labor and Worklife Program*, Harvard Law School, Boston, US.

March 2015 - April 2015: Visiting Student at UNICAMP, Campinas, Brasil.

January 2015 - March 2015: Visiting Student at INSTITUTO NACIONAL DE MATEMATICA PURA E APLICADA, Rio de Janeiro, Brasil.

## Teaching

### Undergraduate courses

*a.y.* 2023-2024: “Institutional labour economics”, Scuola Superiore Sant’Anna, Italy.

*a.y.* 2020-2021/2022-2023: “Technical change, income distribution and macroeconomic dynamics”, Scuola Superiore Sant’Anna, Italy.

*a.y.* 2019-2020: “What and how has to be explained by the economic discipline”, IUSS, Pavia, Italy.

*a.y.* 2018-2019: Seminar series “What and how has to be explained by the economic discipline”, IUSS, Pavia, Italy.

*a.y.* 2017-2019 : International Economics, Faculty of Economics, Università Cattolica del Sacro Cuore, Milan, Italy.

*a.y.* 2016-2018: Economic Policy, Faculty of Economics, Università Cattolica del Sacro Cuore, Milan, Italy.

*a.y.* 2013-2015: Teaching Assistant in Mathematics, Faculty of Economics, University of Pisa, Italy.

*a.y.* 2011-2012: Teaching Assistant in Microeconomics, Faculty of Economics, University of Pisa, Italy.

### Master-level courses

*a.y.* 2023-2024: Reading group in Economics, Master of Science in Economics, Scuola Superiore Sant’Anna e Università di Pisa, Italy

*a.y.* 2023-2024: Economics and Management of Innovation, Master of Science of in Economics, Scuola Superiore Sant’Anna e Università di Pisa, Italy

*a.y.* 2022-2023: Risks in Economics, Master Degree Program in International Relations, Scuola Superiore Sant’Anna, Pisa, Italy.

### PhD-level courses

since *a.y.* 2022-2023: Non linear business cycle theories, PhD in Economics, Scuola Superiore Sant’Anna, Pisa, Italy.

since *a.y.* 2020-2021: Evolutionary Development, PhD in Economics, Scuola Superiore Sant’Anna, Pisa, Italy.

*a.y.* 2021-2022: Economics of Innovation (R&D, Innovation and Intellectual Property Rights), PhD in Global Studies, Urbino, Italy.

Since 2019: Selected lectures, Advanced course in Innovation, jointly held by University of Urbino and “Sapienza” University of Rome.

*a.y.* 2017: Seminar Series in “Modelling technical change and industrial dynamics: an introduction to ABM techniques”, PhD in Global Studies, Urbino, Italy.

*a.y.* 2015-2016: Teaching Assistant in Economics of Information, Master of Science in Economics (MSE) and International Doctoral Program in Economics (IDPE), Scuola Superiore Sant’Anna, Pisa, Italy.

since 2022: Coordinator of the seasonal school “Agent-based models in Economics: theory, toolkit and policy laboratories”, Scuola Superiore Sant’Anna, Pisa, Italy.

## Research Areas

Institutional Labour Economics, Complexity Economics, Evolutionary Economics, Political Economy.

## Publications in peer reviewed journals

1. Dosi, G., D. Usula, M.E. Virgillito (2024): “Increasing returns and labor markets in a predator–prey model”, *Journal of Evolutionary Economics*, <https://doi.org/10.1007/s00191-024-00861-x>.
2. Dosi, G., L. Fanti, M.E. Virgillito (2024): “Attributes and Trends of Rentified Capitalism”, *Italian Economic Journal*, <https://doi.org/10.1007/s40797-024-00279-1>.
3. Fanti, L., Pereira, M. C., A., Virgillito, M. E. (2024). “A North-South Agent–Based Model of segmented labor markets: the role of education and trade asymmetries”, *Industrial and Corporate Change*, 33 (2), 383–423, <https://doi.org/10.1093/icc/dtae007>.
4. Montobbio, F., J. Staccioli, M.E. Virgillito, M. Vivarelli (2024): “Labour-saving automation: a direct measure of occupational exposure”. *The World Economy*, 47 (1), 332-361, <https://doi/full/10.1111/twec.13522>.
5. Montobbio, F., J. Staccioli, M.E. Virgillito, M. Vivarelli (2023): “The empirics of technology, employment and occupations: Lessons learned and challenges ahead”, *Journal of Economic Surveys*, <https://doi.org/10.1111/joes.12601>
6. Costa, S., S. De Santis, G. Dosi, R. Monducci, A. Sbardella, M.E. Virgillito (2023): “From organizational capabilities to corporate performances: at the roots of productivity slowdown”, *Industrial and Corporate Change*, 32(6), pp. 1217-1244, <https://doi.org/10.1093/icc/dtad030>.

7. Nelli, L., M. E. Virgillito (2023): “More than a She-recession”, SINAPPSI, XIII n. 2, [https://oa.inapp.org/jspui/bitstream/20.500.12916/4065/3/INAPP\\_Crisi-lavoro\\_Sinappsi\\_2-2023.pdf](https://oa.inapp.org/jspui/bitstream/20.500.12916/4065/3/INAPP_Crisi-lavoro_Sinappsi_2-2023.pdf)
8. Cresti, L., G. Dosi, F. Riccio, M.E. Virgillito (2023): “Italy and the Trap of GVC Downgrading: Labour Dependence in the European Geography of Production”, *Italian Economic Journal*, 9(3), pp. 869-906, <https://doi.org/10.1007/s40797-023-00251-5>.
9. Mazzei, J., T. Rughi, M.E. Virgillito (2023): “Knowing brown and inventing green? Incremental and radical innovative activities in the automotive sector”, *Industry and Innovation*, 30(7), 824-863, <https://doi.org/10.1080/13662716.2023.2230159>.
10. Cirillo, V., M. Rinaldini, J. Staccioli, M.E. Virgillito (2023): “Trade unions’ responses to Industry 4.0 amid corporatism and resistance”, *PSL Quarterly Review*, 76 (305), 91-120, <https://doi.org/10.13133/2037-3643/18083>.
11. Cetrulo, A., M. Lanini, A. Sbardella, Virgillito, M.E. (2023): “Non-Voting Party and Wage Inequalities: Long-Term Evidence from Italy”, *Intereconomics*, 58(4), 215-221, <https://10.2478/ie-2023-0044>
12. Dosi, G., Marengo, L., Staccioli, J., Virgillito, M. E. (2023). “Big pharma and monopoly capitalism: a long-term view”. *Structural Change and Economic Dynamics*, 65, 15-35, <https://doi.org/10.1016/j.strueco.2023.01.004>.
13. Dosi, G., M.E. Virgillito, X. Yu (2023): “Gains from trade or from catching-up? Value creation and distribution in the era of China’s WTO accession”, *Eurasian Business Review*, 13 (1), 119-166, <https://doi.org/10.1007/s40821-022-00212-5>.
14. Cetrulo, A., Sbardella, A., Virgillito, M. E. (2023). “Vanishing social classes? Facts and figures of the Italian labour market”, *Journal of Evolutionary Economics*, 33, 97-148, <https://doi.org/10.1007/s00191-022-00793-4>.
15. Fanti, L., Pereira, M. C., A., Virgillito, M. E. (2023). “The North-South divide: sources of divergence, policies for convergence”, *Journal of Policy Modelling*, 45(2), 405-429, <https://doi.org/10.1016/j.jpolmod.2022.10.007>.
16. Dosi, G., M. C. Pereira, A. Roventini, M.E. Virgillito (2022): “Technological paradigms, labour creation and destruction in a multi-sector agent-based model”, *Research Policy*, 51 (10), 104565, <https://doi.org/10.1016/j.respol.2022.104565>.
17. Dosi, G., F. Riccio, M.E. Virgillito (2022): “Specialize or diversify? And in What? Trade composition, quality of specialization and persistent growth”, *Industrial and Corporate Change*, 31, 301–337, <https://doi.org/10.1093/icc/dtac008>.
18. Moro, A., M.E. Virgillito (2022): “Towards the factory 4.0? Convergence and divergence of lean models in Italian automotive plants”. *International Journal of Automotive Technology and Management*, 22 (2), 245-271, <https://doi.org/10.1504/IJATM.2022.124376>.

19. Cetrulo, A., D. Guarascio, M.E. Virgillito (2022): “Working from home and the explosion of enduring divides: income, employment and safety risks”, *Economia Politica*, <https://link.springer.com/article/10.1007/s40888-021-00251-7>.
20. Montobbio, F., J. Staccioli, M.E. Virgillito, M. Vivarelli (2022): “Robots and the origin of their labour-saving impact”, *Technological Forecasting and Social Change*, 174, 121122, <https://doi.org/10.1016/j.techfore.2021.121122>.
21. Aguiar, M., Dosi, G., Knopoff, D. A., Virgillito, M. E. (2021). “A multiscale network-based model of contagion dynamics: heterogeneity, spatial distancing and vaccination”, *Mathematical Models and Methods in Applied Sciences*, 31(12), 2425-2454 <https://doi.org/10.1142/S0218202521500524>.
22. Dosi, G., L. Marengo, M.E. Virgillito (2021): “Hierarchies, Knowledge, and Power Inside Organizations”. *Strategy Science*, 6(4), 371-384, <https://doi.org/10.1287/stsc.2021.0136>.
23. Bellomo, N., Burini, D., Dosi, G., Gibelli, L., Knopoff, D., Outada, N., Terna, P., Virgillito, M. E. (2021). “What is life? A perspective of the mathematical kinetic theory of active particles”. *Mathematical Models and Methods in Applied Sciences*, 31(9), 1821-1866, <https://doi.org/10.1142/S0218202521500408>.
24. Dosi, G., F. Riccio, M.E. Virgillito (2021): “Varieties of deindustrialization and patterns of diversification: why microchips are not potato chips”, *Structural Change and Economic Dynamics*, 57, 182-202, <https://doi.org/10.1016/j.strueco.2021.01.009>.
25. Staccioli, J. and M.E. Virgillito (2021): “Back to the past: the historical roots of labour saving automation”, *Eurasian Business Review*, 11, 27-57, <https://doi.org/10.1007/s40821-020-00179-1>.
26. Dosi, G., M.C. Piva, M.E. Virgillito, M. Vivarelli (2021): “Embodied and disembodied technological change: the sectoral patterns of job-creation and job-destruction”, *Research Policy*, 50(4), 104199, <https://doi.org/10.1016/j.respol.2021.104199>.
27. Cirillo, V., M. Rinaldini, J. Staccioli, M.E. Virgillito (2021): “Technology vs. workers: the case of Italy’s Industry 4.0 factories”, *Structural Change and Economic Dynamics*, 56, 166-183, <https://doi.org/10.1016/j.strueco.2020.09.007>.
28. Dosi, G., R. Freeman, M. C. Pereira, A. Roventini, M.E. Virgillito (2021): “The impact of deunionization on the growth and dispersion of productivity and pay”, *Industrial and Corporate Change*, 30 (2), 377-408, <https://doi.org/10.1093/icc/dtaa025>.
29. Dosi, G., D. Guarascio, A. Ricci, M.E. Virgillito (2021): “Neodualism in the Italian business firms: training, organizational capabilities and productivity distributions”, *Small Business Economics*, 57(1), 167-189, <https://doi.org/10.1007/s11187-019-00295-x>.

30. Dosi, G., and M.E. Virgillito (2021): “In order to stand up, you must keep cycling: Change and coordination in complex evolving economies”, *Structural Change and Economic Dynamics*, 56, 353-364, <https://doi.org/10.1016/j.strueco.2017.06.003>.
31. Cetrulo, A., D. Guarascio, M.E. Virgillito (2020): “Anatomy of the Italian occupational structure: concentrated power and distributed knowledge”, *Industrial and Corporate Change*, 29 (6), 1345-1379, <https://doi.org/10.1093/icc/dtaa050>.
32. Dosi, G., L. Fanti, M.E. Virgillito (2020): “Unequal societies in usual times, unjust societies in pandemic ones”, *Journal of Industrial and Business Economics*, 47, 371-389, <https://doi.org/10.1007/s40812-020-00173-8>.
33. Bellomo, N., R. Bingham, M. A. J. Chaplain, Dosi, G., G. Forni, D. A. Knopoff, J. Lowengrub, R. Twarock, and M. E. Virgillito (2020): “A Multi-Scale Model of Virus Pandemic: Heterogeneous Interactive Entities in a Globally Connected World”, *Mathematical Models and Methods in Applied Sciences*, 30(8), 1591-1651, <https://doi.org/10.1142/S0218202520500323>.
34. Cetrulo, A., D. Guarascio, M.E. Virgillito (2020): “The privilege of working from home at the time of social distancing”, *Intereconomics*, 55, 142-147, <https://doi.org/10.1007/s10272-020-0891-3>.
35. Dosi, G., M. C. Pereira, A. Roventini, M.E. Virgillito (2020): “The labour-augmented K+S model: a laboratory for the analysis of institutional and policy regimes”, *Economia*, 21(2), 160-184, <https://doi.org/10.1016/j.econ.2019.03.002>.
36. Bellomo, N., G. Dosi, D. A. Knopoff, and M. E. Virgillito (2020): “From Particles to Firms: On the Kinetic Theory of Climbing Up Evolutionary Landscapes”, *Mathematical Models and Methods in Applied Sciences*, 30(7), 1441-1460, <https://doi.org/10.1142/S021820252050027X>.
37. Dosi, G., M.E. Virgillito, Xiaodan Yu (2020): “The wage-productivity nexus in the World Factory Economy”, *World Development*, <https://doi.org/10.1016/j.worlddev.2020.104875>.
38. Dosi, G., and M.E. Virgillito (2019): “Whither the evolution of the contemporary social fabric? New technologies and old socio-economic trends”, *International Labour Review*, <https://doi.org/10.1111/ilr.12145>.
39. Moro, A., M. Rinaldini, J. Staccioli, M.E. Virgillito (2019): “Control in the era of surveillance capitalism: an empirical investigation of Italian Industry 4.0 factories”, *Journal of Industrial and Business Economics*, <https://doi.org/10.1007/s40812-019-00120-2>.
40. Dosi, G., M. C. Pereira, A. Roventini, M.E. Virgillito (2019): “What if supply side policies are not enough? The perverse interaction of flexibility and austerity”, *Journal of Economic Behavior and Organization*, 162, pp. 360-388, <https://doi.org/10.1016/j.jebo.2018.11.026>.

41. Dosi, G., M. C. Pereira, A. Roventini, M.E. Virgillito (2018): “Causes and consequences of hysteresis: aggregate demand, productivity, employment”, *Industrial and Corporate Change*, 27 (6), 1015-1044, <https://doi.org/10.1093/icc/dty010>.
42. Dosi, G., M. C. Pereira, A. Roventini, M.E. Virgillito (2018): “The effects of labour market reforms upon unemployment and income inequalities: an agent based model”, *Socioeconomic Review*, 16(4), pp. 687-720, <https://doi.org/10.1093/ser/mwx054>.
43. Dosi, G., M. C. Pereira, M.E. Virgillito (2018): “On the robustness of the fat-tailed distribution of firm growth rates: a global sensitivity analysis”, *Journal of Economic Interaction and Coordination*, 13(1), pp. 173-193, <https://doi.org/10.1007/s11403-017-0193-4>.
44. Calvino, F., M.E. Virgillito (2018): “The Innovation-Employment nexus: a critical survey of theory and empirics”, *Journal of Economic Surveys*, 32(1), pp. 83-117, <http://dx.doi.org/10.1111/joes.12190>.
45. Dosi, G., M. C. Pereira, A. Roventini, M.E. Virgillito (2017): “When more Flexibility Yields more Fragility. The Microfoundations of Keynesian Aggregate Unemployment”, *Journal of Economic Dynamics and Control*, Volume 81, pp 162-186.
46. Dosi, G., M. C. Pereira, M.E. Virgillito (2017): “The footprint of evolutionary processes of learning and selection upon the statistical properties of industrial dynamics”, *Industrial and Corporate Change*, Volume 26 (2), pp 187-210.
47. Dosi, G., M. Sodini, M.E. Virgillito (2015): “Profit-driven and demand-driven investment growth and fluctuations in different accumulation regimes”, *Journal of Evolutionary Economics*, Volume 25, pp 707-728.

## Edited Books

Cirillo, V., M. Rinaldini, M.E. Virgillito (2025): “Technology and Work in Services - Vulnerable Workers under Automation and Digitalisation”, Palgrave MacMillan, 2025

## Chapters in Books

1. Staccioli, J. and M.E. Virgillito (2021): “The present, past, and future of labor-saving technologies”, in *Handbook of Labor, Human Resources and Population Economics*, Zimmermann, F. (eds), Springer, [https://doi.org/10.1007/978-3-319-57365-6\\_229-1](https://doi.org/10.1007/978-3-319-57365-6_229-1).
2. Dosi, G., M.E. Virgillito and A. Roventini (2019): “Rebalancing Labour Power for an Innovation-fuelled Sustainable Inclusive Growth” in “Quale reddito di cittadinanza?”, E. Innocenti, E. Rossi, E. Vivaldi (eds.), il Mulino.
3. Dosi, G. and M.E. Virgillito (2018): “The “Schumpeterian” and the “Keynesian” Stiglitz: Learning, Coordination Hurdles and Growth Trajectories” in “Towards a Just Society. Joseph Stiglitz and Twenty-First Century Economics” ed. by M. Guzman, Columbia University Press.



## Contributions in Italian

1. Costa, S., S. De Santis, G. Dosi, A. Sbardella, M. E. Virgillito (2024), ‘Ristrutturazioni del tessuto produttivo tra pandemia e inflazione: comportamenti, persistenze e transizioni d’impresa’, *Economia Italiana*, 2024/1,15-57 , <https://doi.org/10.57621/EI2024-02-S-02>.
2. Cirillo, V., M. Rinaldini, J. Staccioli, M.E. Virgillito (2022): ‘Sindacato e negoziazione delle tecnologie 4.0’. In *Il lavoro operaio digitalizzato. Inchiesta nell’industria metalmeccanica bolognese*. Ed. by Francesco Garibaldo and Matteo Rinaldini. Il Mulino.
3. Cirillo, V., M. Rinaldini, J. Staccioli, M.E. Virgillito (2022): ‘Lean production, high performance work practices e Industria 4.0’. In *Il lavoro operaio digitalizzato. Inchiesta nell’industria metalmeccanica bolognese*. Ed. by Francesco Garibaldo and Matteo Rinaldini. Il Mulino.
4. Cresti, L., M.E. Virgillito (2021): “Settori strategici e lavori essenziali. Lo Stato, il pubblico e l’interesse collettivo”. In *Un’altro mondo è ancora possibile?*, Fondazione Giangiacomo Feltrinelli Editore.
5. Cetrulo, A., M.E. Virgillito (2020): “Dicotomie di genere: tra lavoro da casa e lavoro di cura” in *Forza Lavoro, Collane Quaderni*, Fondazione Giangiacomo Feltrinelli Editore, <https://fondazionefeltrinelli.it/schede/forza-lavoro-ripensare-il-lavoro-al-tempo>
6. Costa, S., S. De Santis, G. Dosi, R. Monducci, A. Sbardella, M. E. Virgillito (2020), Alle radici della stagnazione: Una tassonomia della struttura produttiva italiana, *Economia Italiana*, 2020/2, 73-122, <https://economieitaliana.org/pubblicazioni/la-produttivita-delle-imprese-italiane-andamento-determinanti-e-proposte-per-un-rilancio>
7. Virgillito, M.E. (2016): “L’economia politica alla prova dei beni comuni” in “Beni comuni 2.0. Contro-egemonia e nuove istituzioni”, ed. by A. Quarta and M. Spano’, Mimesis Edizioni.

## Book reviews

1. Virgillito, M.E. (2017): Book Review on “Rise of the robots: technology and the threat of a jobless future”, *Labor History*, Volume 58, pp 240-242.

## Technical reports and policy studies

1. Staccioli, J., M. E. Virgillito (2024). WORKER MANAGEMENT THROUGH AI. From technology development to the impacts on workers and their safety and health, OSHA Discussion paper, [https://osha.europa.eu/sites/default/files/documents/Worker%20management%20through%20AI\\_en.pdf](https://osha.europa.eu/sites/default/files/documents/Worker%20management%20through%20AI_en.pdf).
2. Nelli, L., M. E. Virgillito, A. Roventini (2022). Policy challenges and policy actions for a just climate transition. Five European Recovery Plans in comparison. Recovery Watch Policy Study, <https://feps-europe.eu/publication/policy-challenges-and-policy-actions>

- Cirillo, V., Rinaldini, M., Virgillito, M.E., Divella, M., Manicardi, C., Massimo, F.S., Cetrulo, A., Costantini, E., Moro, A. and Staccioli, J. (2022): “Case studies of automation in services”, Publications Office of the European Union, Luxembourg, 2022, ISBN 978-92-76-58953-2, doi:10.2760/347087, JRC129691.

## Research projects

TRIPLE T (2023-2025): “Tackling a just Twin Transition: a complexity approach to the geography of capabilities, labour markets and inequalities”, PRIN2022PNRR funded by the Italian Minister of Research and University, Unit Coordinator.

DIGITWORK (2023-2025): “The Digital Transition and the World of Work: Labour markets, Organizations, Job quality and Industrial Relations”, PRIN2022 funded by the Italian Minister of Research and University, Unit Coordinator.

BARMETAL (2022-2024): “Digitalization, Automatization and Decarbonization: Opportunity for strengthening collective bargaining in the metal sector”, Deputy Consortium Coordinator.

BARCOVID (2021-2023): “The impact of the Covid-19 crisis on Collective Agreements in Europe”, funded by European Commission. Directorate-General for Employment. Social Affairs and Inclusion - VS/2021/0190, Unit coordinator.

“Case studies of Automation in Services” (2021-2023), TENDER JRC/SVQ/2020/LVP/1925, JRC-EU Commission funded, Unit coordinator.

LOST HIGHWAY (2020-2024): “Skills, technology and trade in Italian economic growth, 1815-2018”, PRIN2017, Unit coordinator.

“Compilation of tasks data at the national level and support in the development and testing of a tasks questionnaire” (2019), TENDER JRC/SVQ/2018/B.4/0022/NC: project member.

H2020 GROWINPRO project (2019-2022), WP coordinator and Task responsible.

“Development and piloting of a computer-based simulation model to assess impacts of ICT-enabled social innovation initiatives promoting social investment in the EU” (2016-2018), TENDER JRC-IESI I-FRAME 2.0, project member.

H2020 ISIGrowth project (2015-2018), project member.

## Editorial and referee activity

2020 –: Editor for Industrial and Corporate Change, Macro and Development yearly issue.

Since June 2019: Associate Editor for *Structural Change and Economic Dynamics*.

Since November 2019: Associate Editor for *Review of Evolutionary Political Economy*.

2020 - 2024: Member of the Editorial Board of SINAPPSI. Edited special issues:

- Technological changes, labour market transformations, industrial and labour policies (SINAPPSI N. 2/2021; N. 3/2021)
- Crisis of labour: causes, consequences and policy actions (SINAPPSI N. 2/2023)

Editor for Elements in Complexity and Agent-based Economics, Cambridge Elements,

<https://www.cambridge.org/core/publications/elements/elements-in-complexity-and-agent-bas>

Referee activity: *Industrial and Corporate Change*, *Journal of Evolutionary Economics*, *Economia Politica*, *Small Business Economics*, *Journal of Economic Dynamics and Control*, *Journal of Economic Behavior and Organization*, *Eurasian Business Review*, *Rivista Internazionale di Scienze Sociali*, *Structural Change and Economic Dynamics*, *Research Policy*, *Plos One*, *Review of Evolutionary Political Economy*, *Economic Inquiry*, *Labour*, *Journal of Economic Survey*.

October 2018: Outstanding reviewer status recognised by *Journal of Economic Behavior and Organization*.

## Conferences, Workshops and Seminars

**2024:** VII International ASTRIL Conference Universita' Roma 3 (SINAPPSI Special Session); Seminar at *Haas Business School*, University of California, Berkeley; Seminar at *Tsinghua University*, Peking; Seminar at *Peking University*, Peking; Seminar at *Nottingham Business School*, Ningbo; Berkeley; 36th EAEPE Annual Conference (Keynote Speech).

**2023:** VI International ASTRIL Conference Universita' Roma 3 (SINAPPSI Special Session), Seminar at *Instituto de Economía y Finanzas (IEF)*, Facultad de Ciencias Económicas, Universidad Nacional de Córdoba, CRIS-IS series.

**2022:** V International ASTRIL Conference Universita' Roma 3, Italy (online); Invited lecture at DYNAMICAL SYSTEMS APPLIED TO BIOLOGY AND NATURAL SCIENCE DSABNS 2022, Basque Center for Applied Mathematics, Bilbao, Spain (online); CLE Seminar Series Università Cattolica del Sacro Cuore, IRPET Seminar Series.

**2021:** ENEF 2021; Seminar at UNU-Merit; Workshop “Innovation, firm growth and employment: empirical evidences and policy perspectives” Università Cattolica del Sacro Cuore; Workshop “Digital Economy and Society: the state of knowledge” Università La

Sapienza; GERPISA 2021; Seminar at University of Perugia; ISS 2021; EAEPE 2021; Workshop “Digital Transformation and Socio-Economic Change after COVID-19” (WZB); Globelics 2021, Feltrinelli Camp 2021 (Next Generation Labour).

**2020:** Paper Development workshop, Manchester Business School, UK; SISEC 2020, University of Turin, IT; Lem Webinar; Webinar at Minerva Lab, La Sapienza - Università di Roma; Webinar at Economia Italiana-ISTAT; Webinar at Rethinking Economics Pisa.

**2019:** III International Conference, *Reassessment and Perspectives of Labour Policies*, Università’ Roma 3, Italy; Workshop in *innovation, firm dynamics, employment and growth*, University of Greenwich, UK; ICC Tsinghua Conference, Beijing, China; Seminar Series, University of Pavia, Pavia, IT; *SISEC 2019*, University of Naples, Naples, IT.

**2018:** II International Conference, *Reassessment and Perspectives of Labour Policies*, Università’ Roma 3, Italy; Seminar Series, IRPET, Firenze, Italy; *39th AISRE*, Eurach Research Center, Bolzano, Italy; *15th ENEF*, SPRU, Sussex University, Brighton, UK; *23rd WEHIA*, International Christian University, Tokyo, Japan; *30th SASE Annual Conference*, Doshisha University, Kyoto, Japan; Workshop *A new industrial revolution? Labor, technology and the automotive industry*. Scuola Superiore Sant’Anna, Italy; *5th ISCEF Symposium*, Society for Computational Economics, Paris, France; Conference *Digitalizzazione dei processi di produzione e Industria 4.0. Temi e questioni di ricerca interdisciplinare*, Università’ del Salento, Italy.

**2017:** I International Conference, *Reassessment and Perspectives of Labour Policies*, Università’ Roma 3, Italy; *Evidence Informed Social Policy Innovation’ at the High Level Conference on Opening up a new era of Social Innovation*, Lisbon, Portugal; *29th Annual EAEPE Conference*, Corvinus University of Budapest, Hungary; International Conference, *Finance and Economic Growth in the Aftermath of the Crisis*, Università’ degli Studi di Milano, Italy; *29th SASE Annual Meeting*, University of Lyon, France; *22th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA)*, Università’ Cattolica del Sacro Cuore, Milan, Italy; *Workshop on Economic Growth, Macroeconomic Dynamics, and Agents Heterogeneity*, European University at Saint-Petersburg, Russia.

**2016:** *10th International Conference on Computational and Financial Econometrics*, University of Seville, Spain; *28th Annual EAEPE Conference*, Manchester Metropolitan University, UK; *Economics, Economic Policies and Sustainable Growth in the Wake of the Crisis*, Università Politecnica delle Marche, Ancona, Italy; *16th International Conference of the International Schumpeter Society (ISS)* at Montreal, Canada; Seminar at Graduate School of Business and Economics, Maastricht University, the Netherlands.

**2015:** *Large Scale Crisis*, Università Politecnica delle Marche, Ancona, Italy; *19th FMM Conference: The Spectre of Stagnation*, Macroeconomic Policy Institute (IMK), Berlin, Germany; *DRUID Academy*, LUISS Guido Carli, Rome, Italy; *First Bordeaux-Milano Joint Workshop on Agent-Based Macroeconomics*, GREThA, Université de Bordeaux, Bor-

deaux, France; *European Meeting of Evolutionary Applied Economics* (EMAE), UNUMerit, Maastricht, The Netherlands; *20th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents* (WEHIA), SKEMA Business School, Sophia-Antipolis, France.

**2014:** *Workshop Explaining Economic Change* at Sapienza, Università di Roma in cooperation with Accademia Nazionale dei Lincei; *15th International Conference of the International Schumpeter Society (ISS)* at Jena, Germany; *Workshop on Mathematical Theories of the Crisis* at Università Bicocca, Milan, Italy (invited speaker).

**2013:** *1<sup>th</sup> Doctoral Workshop in Economics of Innovation, Complexity and Knowledge* at Collegio Carlo Alberto, Turin, Italy; *Workshop on Deterministic and Stochastic Dynamics in Economics and Finance* at Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore, Pisa, Italy; **2013:** *8<sup>th</sup> International Conference on Nonlinear Economic Dynamics (NED)* at University of Siena, Siena, Italy.

## **Conferences, Summer School and Special Sessions Organizer**

Since 2023: Organizer of the Seminar Series in Gender and Labour Studies, Scuola Superiore Sant'Anna, Pisa.

February 2022: organizer of the workshop “Productivity dynamics of Italian firms. Patterns, determinants and new challenges in the wake of the pandemic crisis”, Scuola Superiore Sant'Anna.

November 2021: workshop “Lavoro, delocalizzazioni e politica industriale a partire dal caso GKN”, Scuola Superiore Sant'Anna, Pisa.

September 2021: organizer of the Special Session “Social classes and social stratification beyond inequalities: patterns, evidence and perspectives in pre- and pandemic times”, EAEPE 2021.

June 2021: organizer of the workshop “Opening up the black box of development: capabilities, structural change and innovation”, cosponsored by YSI, Scuola Superiore Sant'Anna, Pisa, Italy.

May 2021: organizer of the workshop “Varieties of Technological and Organizational Changes in the Age of Automation and Digitalisation”, cosponsored by ARTES 4.0, Scuola Superiore Sant'Anna, Pisa, Italy.

January 2021: co-organizer of the web-conference “Value creation and distribution in the digital era”, in collaboration with OECD.

December 2020: organizer of the web-conference “The socio-economic consequences of the pandemic @Growinpro: Modelling, empirics and policy designs”.

February 2020: organizer of the workshop “Il popolo, le classi, la sinistra”, Scuola Superiore Sant'Anna, Pisa, Italy.

October 2019: organizer of the workshop “Reforming the Eurozone: from failure to integration strategies”, Scuola Superiore Sant’Anna, Pisa, Italy.

June 2019: co-organizer of the workshop “Innovation, firm dynamics, employment and growth”, University of Greenwich.

December 2017: organizer of the Special Session “Theoretical, empirical and policy analyses of the European labour markets: insights from the ISIGrowth project”, International Conference on “Reassessment and Perspectives of Labour Policies”, Università di Roma 3, Italy.

June 2017: organizer of the Special Session “The impact of labour market flexibility upon skills, innovation and wage dispersion: insights from the ISIGrowth project”, 29th SASE Annual Meeting, University of Lyon, France.

April 2017: co-organizer of the workshop “Going Digital: the Future of Industry and Jobs”, OECD, Paris, France.

October 2016: organizer of the Workshop “The IV Industrial Revolution: the emergence of a new techno-economic paradigm?”, Scuola Superiore Sant’Anna, Pisa, Italy.

September 2016: organizer of the Workshop “Freewheeling Econometrics: The Econometrics of Complex Evolving Economies”, supported by the YOUNG SCHOLAR INITIATIVE – INSTITUTE OF NEW ECONOMIC THINKING, Scuola Superiore Sant’Anna, Pisa, Italy.

April 2016: organizer of the Workshop “The effects of labour market flexibilization in Italy”. Scuola Superiore Sant’Anna, Pisa, Italy.

November 2015: organizer of the Workshop “The Intellectual Inheritance of Christopher Freeman: some contemporary challenges”. Scuola Superiore Sant’Anna, Pisa, Italy.

May 2015: member of the Organizing Committee of the WEHIA Doctoral Summer School, supported by the YOUNG SCHOLAR INITIATIVE – INSTITUTE OF NEW ECONOMIC THINKING. University of Nice, Nice, France.

November 2014: member of the Organizing Committee of the Conference *Debunking Austerity: Towards Alternative Economic Policy Scenarios*, supported by the YOUNG SCHOLAR INITIATIVE – INSTITUTE OF NEW ECONOMIC THINKING. Scuola Superiore Sant’Anna, Pisa, Italy.

## **Further education**

**2015:** *ISEO Summer School*, Iseo, Italy; WEHIA Doctoral Summer School, Nice, France; INET Annual Plenary Conference – selected participant, OECD Headquarters, Paris, France, INPA Summer School, Rio de Janeiro, Brasil.

**2014:** 8th Jena Summer Academy on Innovation and Uncertainty, Friedrich Schiller University and the Max Planck Institute of Economics, Jena, Germany; Summer School of Econometrics, CIDE (Centro Interuniversitario di Econometria), Bertinoro, Italy; Winter School on Applied Macro-Modelling: Fully Scalable Models, at University of Limerick, Ireland. Sponsored by INSTITUTE OF NEW ECONOMIC THINKING.

**2013:** Summer School of Mathematics for Economics and Social Sciences, at Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore, Pisa, Italy; the Minsky Summer Seminar, Levy Economics Institute of Bard College, Annandale-on-Hudson, New York.

**2012:** Summer School of Mathematics for Economics and Social Sciences, at Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore, Pisa, Italy.

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