

MARCO VIVARELLI

(OCTOBER 2024)

Nationality	Italian
Birth	February 11th, 1963; Piacenza
Addresses	Università Cattolica del Sacro Cuore - Facoltà di Economia Largo Gemelli 1, 20123 Milano phone: +39-02-72342921 fax. +39-02-72343739 marco.vivarelli@unicatt.it homepage: https://sites.google.com/site/mvivarel/
Degrees	Ph.D. in Economics (Pavia University) Ph.D. in Science and Technology Policy (SPRU - Sussex University) Laurea (five years degree) in Economics (Bocconi University - Milano)
Honours	Cavaliere al Merito della Repubblica Italiana (Presidential decree, June, 2nd, 2009) Member of the Accademia Europaea , since July 2019 Member of the European Academy of Sciences and Arts , since September 2022
Language skills	English (fluent); French (basic)
Present position	Full Professor of Economics at the Catholic University (UCSC, Milano) Director of the Department of Economic Policy at the Catholic University (UCSC, Milano)
Fields of Research	Economics of Innovation Entrepreneurship Applied Microeconometrics
Rankings	- According to the World's Top 2% Scientists database provided by Stanford University - computing a composite indicator excluding self-citations - he is ranked #453 in the economics field (#10 in Italy). -According to Research.com , he is ranked #607 among the top 8,000 economists worldwide (#12 in Italy); and #360 among the top 8,000 Business and Management Scientists (#6 in Italy). - According to VIA-Academy , he is ranked among the top Italian scientists all over the world (#17 among economists using the Google Scholar h-index and #14 using the Scopus h-index). - According to REPEC-IDEAS , he is among the global top 2% authors as average rank score and among the global top 5% authors with regard to other 29 more specific criteria. - According to SSRN , among the top 8,000 economics authors worldwide he is ranked #544 in terms of total downloads in the last twelve months and #550 in terms of all time total number of downloads.

- According to **IZA**, he is ranked #3 in terms of number of downloads, among a total of more than 11,500 IZA discussion paper authors.

**Fellowships,
Professorships
Scientific boards**

Affiliated Professorial Fellow at the **United Nations University-Maastricht Economic and Social Research Institute on Innovation and Technology (UNU-MERIT, Maastricht)** since May 2016

Research Fellow of the **Institute for the Study of Labor (IZA, Bonn)** since November 2002

Fellow of the **Global Labor Organization (GLO)** since March 2017 and **thematic cluster leader**

Member of the Scientific Executive Board of the **Eurasia Business and Economics Society (EBES, Istanbul)**, since June 2014

Member of the Scientific Advisory Board of the Austrian Institute of Economic Research (**WIFO, Vienna**), since May 2013

Member of the Scientific Advisory Board of the **Eurasia Business and Economics Society (EBES, Istanbul)**, January 2009 - May 2014.

Honorary Professor at the Science Policy Research Unit (SPRU), **University of Sussex**, since October 2010 to September 2013.

External Associate at the Centre for the Study of Globalisation and Regionalisation (CSGR), **University of Warwick**, April 2005 – December 2012.

External Senior Research Fellow at the **Max Planck Institute of Economics: Entrepreneurship, Growth and Public Policy Group (Jena)**, February 2004 - December 2009

Senior Scientist at the **Institute for Prospective Technological Studies - European Commission (JRC-IPTS, Seville)**, July 2007 - December 2007 and July 2008 - February 2009

Senior Research Economist (Research Project Coordinator) at the **International Labour Office (ILO, Geneva)**, February 2002 - May 2005

Research Economist at the **International Labour Office (ILO, Geneva)**, March 1997 - February 1998

Visiting Research Fellow at the **Wissenschaftszentrum Berlin für Sozialforschung (WZB, Berlin)**, July 1993 - September 1993

Editorial Boards

Member of the **Editorial Board** of the *Italian Economic Journal* since October 2023.

Associate Editor of *Economics of Innovation and New Technology* since September 2023.

Member of the **Editorial Review Board** of the *International Entrepreneurship and Management Journal* since September 2019.

Member of the **Editorial Board** of *Rivista Internazionale di Scienze Sociali* since January 2015.

Member of the **Scientific Committee** of the *Journal of Industrial and Business Economics - Economia e Politica Industriale* since May 2014.

Editor-in Chief of *Eurasian Business Review: A Journal in Industrial Organization, Innovation and Management Science* since January 2010.

Associate Editor of *Industrial and Corporate Change* since January 2009.

Co-Editor of *Economics: The Open-Access, Open-Assessment Journal* since March 2007.

Editor of *Small Business Economics* since January 2005.

Member of the **Editorial Board** of *Small Business Economics*, 1993-2004.

**Referee
activities**

Acta Oeconomica
Administrative Sciences
African Journal of Business Management
Annals of Regional Science
Applied Economics
Applied Economics Letters
Australian Economic Papers
Australian Journal of Management
B.E. Journal of Economic Analysis and Policy
Business Ethics - A European Review
Cambridge Journal of Regions, Economy and Society
CEPAL Review
China: An International Journal
Cogent Economics and Finance
Cuadernos de Economía
Discover Sustainability
Economia Politica-Journal of Analytical and Institutional Economics
Economic and Labour Relations Review
Economic Geography
Economic Inquiry
Economic Modelling
Economic Systems
Economics
Economics Bulletin
Economics of Innovation and New Technology
Economics of Transition
Economies
Emerging Markets Finance and Trade
Empirica
Empirical Economics
Energy Policy
Estudios de Economía
ETRI Journal
Eurasian Business Review
European Journal of Development Research
European Journal of International Management

European Planning Studies
Feminist Economics
Forecasting
Foundations and Trends in Entrepreneurship
Frontiers in Psychology, section Organizational Psychology
Futures
Growth and Change
Heliyon
IEEE Transactions on Engineering Management
Industrial and Corporate Change
Industry and Innovation
International Entrepreneurship and Management Journal
International Journal of Entrepreneurial Venturing
International Journal of Environmental Research and Public Health
International Journal of Forecasting
International Journal of Industrial Organization
International Journal of Manpower
International Journal of Social Economics
International Journal of Technology Management
International Journal of the Economics of Business
International Labour Review
International Review of Administrative Sciences
International Review of Applied Economics
International Review of Economics and Finance
International Small Business Journal
International Tax and Public Finance
Italian Economic Journal
Journal of African Economies
Journal of Business Venturing
Journal of Comparative Economics
Journal of Development Studies
Journal of Economic Behavior and Organization
Journal of Economic Dynamics and Control
Journal of Economic Geography
Journal of Economic Inequality
Journal of Economic Interaction and Coordination
Journal of Economic Issues
Journal of Economic Policy Reform
Journal of Economic Psychology
Journal of Economic Surveys
Journal of Economics
Journal of Engineering and Technology Management
Journal of Evolutionary Economics
Journal of Industrial and Business Economics
Journal of Industry, Competition and Trade
Journal of Labor Economics
Journal of Population Economics
Journal of Post Keynesian Economics
Journal of Product Innovation Management
Journal of Regional Science
Journal of Small Business Management
Journal of Technology Transfer

Journal of Urban Economics
Journal of World Business
Labour
Labour Economics
Management Science
Manchester School
Metroeconomica
OECD Journal: Economic Studies
Oxford Bulletin of Economics and Statistics
Oxford Economic Papers
Papers in Regional Science
R&D Management
Regional Science and Urban Economics
Regional Studies
Research in Economics
Research Policy
Review of Development Economics
Review of Economic Studies
Review of Industrial Organization
Review of World Economics
Science and Public Policy
Scientometrics
Singapore Economic Review
Small Business Economics
Societal Impacts
Sociological Quarterly
Structural Change and Economic Dynamics
Sustainability
systems
Technological Forecasting & Social Change
Technology in Society
Technovation
Telecommunications Policy
World Development
World Economy

Elgar (Publisher), Routledge (Publisher), Columbia University Press (Publisher), Administrative Sciences Association of Canada (Scientific Association), International Engineering Management Conference (Scientific Association), European Research Council (ERC, funding body, European Commission), ESRC (UK funding body); FNR (Luxembourg funding body; *Giornale degli Economisti, Lavoro e Relazioni Industriali, L'Industria, Rivista di Politica Economica, Rivista di Scienze Regionali, Rivista Internazionale di Scienze Economiche e Commerciali, Rivista Internazionale di Scienze Sociali, Statistica Applicata*, EGEA (Publisher), Società Italiana degli Economisti (Scientific Association), (MIUR (Italian funding body), Ateneo Italo Tedesco di Trento (Italian-German funding body), ANVUR (Italian scientific assessment authority).

= listed in **WEB OF SCIENCE**

Organization of Conferences and Workshops

- “Economics of Innovation: Where are we, how did we get here, and where are we heading?”, conference, Università Cattolica del Sacro Cuore, Milano, September 13-15, 2023.
- “Innovation, firm dynamics, employment and growth: New developments in modelling and estimation”, workshop, University of Greenwich, June 21, 2019.
- One invited plenary session within the “Eurasia Business and Economics Society (EBES) Conference” – Istanbul, May 24-26, 2012.
- “Drivers and Impacts of Corporate R&D in Small and Medium-sized Enterprises”, workshop, European Commission, JRC-IPTS, Seville, September 19, 2008.
- “Globalization, Employment and Poverty Reduction”, International Labour Office, workshop, Geneva, October 3-4, 2002.
- Two invited sessions within "ERC/METU International Conference in Economics V", Middle East Technical University, Ankara, September 10-13, 2001.
- “The Employment Impact of Innovation”, Swedish National Institute for Working Life, workshop, Stockholm, January, 30-31, 1999.
- “Birth and Start-up of Small Firms”, conference, Bocconi University-Milano, June 18- 19, 1992.

Member of Conference Scientific Committees

- “9th European Conference on Corporate R&D and Innovation (CONCORDi 2023): Industrial Innovation for Open Strategic Autonomy. Leaving no one and no place behind”, JRC, Seville (Spain), October 24-26, 2023.
- “7th European Conference on Corporate R&D and Innovation (Concordi-2019): “Industrial Innovation for Transformation”, JRC, Seville (Spain), September 25-27, 2019.
- “Governance of a complex World 2016 – GCW 2016” (fifth edition), INGENIO (CSIC-UPV), Valencia (Spain), June 22-24, 2016.
- “Industrial Organization: Theory, Empirics and Experiments; third edition”, Università del Salento - Alberobello (Italy), June 26-28, 2014.
- “The Governance of a Complex World: Smart, Sustainable and Inclusive Growth”, Università di Torino, June 18-20, 2014.
- “3rd European Conference on Corporate R&D (CONCORD-2011): “The dynamics of Europe's industrial structure and the growth of the innovative firms”, JRC-IPTS, Seville (Spain), October 6, 2011.
- “Industrial Organization: Theory, Empirics and Experiments; second edition”, Università del Salento - Otranto (Italy), June 23-24, 2011.
- “2nd European Conference on Corporate R&D (CONCORD-2010): Corporate R&D - An engine for growth, a challenge for European Policy”, JRC-IPTS, Seville (Spain), March 3-4, 2010.
- “Industrial Organization: Theory, Empirics and Experiments”, Università del Salento - Lecce (Italy), June 19-20, 2009.
- “3rd Hellenic Workshop on Productivity and Efficiency Measurement: Industry Dynamics, Productivity, Entrepreneurship and Growth”, University of Patras (Greece), June 9-11, 2006.
- “Firm Demography and Industrial Location”, Rovira i Virgili University, Reus (Spain), November 17-19, 2005.

Research Evaluation

In 2011 he has acted as member of the evaluation commission of the research department: Dynamiques des Organisations et du Travail (DOT) of the Centre d'études de l'emploi (CEE), Noisy-le-Grand (Paris, France).

In 2015 he was nominated by the Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR) **member of the Group of Evaluation Experts for Economics, Business and Statistics** (GEV 13), a national commission of 31 academics, entitled to assess the national research activities over the period 2011-2014.

Fund raising

- **Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)**, PRIN (Progetti di ricerca di Rilevante Interesse Nazionale, grant number P2022RYFET: "Circular Economy Innovation and the socio-economic impacts on sectors and regions") (total budget = EUR 105,017; principal investigator of a local unit), 2024-2026.

- **Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)**, PRIN (Progetti di ricerca di Rilevante Interesse Nazionale, grant number 2022P499ZB: "Innovation and labor market dynamics") (total budget = EUR 204,610; principal investigator), 2023-2025.

- **Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)**, PRIN (Progetti di ricerca di Rilevante Interesse Nazionale, grant number 201799ZJSN): "Technological change, industry evolution, and employment dynamics", total budget = EUR 606,603; (principal investigator), 2020-2023.

- **European Commission (Joint Research Center, Sevilla)**: "A reappraisal of the impact of Corporate R&D and Innovation on Employment", total budget = EUR 47,708 (principal investigator), 2015-2016.

- **European Commission (Econometric and Applied Statistics Unit, JRC-IPSC, Ispra)**, scientific consultancy, 2012-2014.

- **United Nations Industrial Development Organization (UNIDO, Vienna)**, scientific consultancy, 2012-2013

- **World Bank (WB, Washington)**, scientific consultancy, 2011-2012

- **Inter-American Development Bank (IDB, Washington)**, scientific consultancy, 2011-2012

- **European Commission (IPTIS-JRC, Sevilla)**, scientific consultancy, 2009-2012

- **European Commission (Erawatch Network; Brussels)**, scientific consultancy, 2010-2012

- **European Commission (FP6, second call - Priority 7)**: sub-contractor, 2005-2008

- **European Commission (ETEPS network)**: external expert, 2005-2006

- **International Labour Office (ILO, Geneva)**: "Understanding Globalization, Employment and Poverty Reduction", total budget = US\$ 1,339,078 (research team leader and project coordinator), 2002-2005

- **European Commission (Institute for Prospective Technological Studies, Sevilla)** (project leader), 2000-2002

- **European Commission (Targeted Socio Economic Research)** (leader of a project unit), 1996-1998

- **MIUR** (Italian Ministry of Research) (leader of project units), various years

Presentations 157 international conferences and workshops (126 invitations; of which 26 invited keynotes)
71 international invited seminars
61 Italian conferences and workshops (32 invitations)
43 Italian invited seminars

Teaching activity Full Professor at the Catholic University of Milano
Faculty of Economics
Since November 2014

Full Professor at the Catholic University of Milano
Faculty of Economics located in Piacenza
April 2002 – October 2014

Associate Professor at the Catholic University of Milano
Faculty of Economics located in Piacenza
November 1999 - March 2002

Associate Professor at Calabria University
November 1998 - October 1999

Lecturer at the Catholic University of Milano
Faculty of Economics located in Piacenza
April 1993 - October 1998

Professor (short term contract) at the University of Sassari
October 1992 - March 1993

Teaching Assistant at Bocconi University - Milano
November 1991 - March 1993

Ph.D. Programs Università Cattolica di Milano: Management & Innovation (T/E/S)-current
Sant'Anna-IUSS Doctoral Program in Economics (T/E)-current
Università Cattolica di Milano: Economics (T/E/S)

Teaching (T) Università degli Studi di Ancona (T/S)
Examining (E) Università degli Studi di Pavia (E/S)
Supervision (S) Università degli Studi di Torino (T/E)
Scuola Superiore Sant'Anna di Pisa (T/E)
Scuola Universitaria Superiore IUSS Pavia (E)
Università degli Studi della Calabria (E)
Università degli Studi di Bologna (E/S)
Università degli Studi di Roma Tor Vergata (E)
Università del Salento - Lecce (E)
Università degli Studi di Urbino "Carlo Bo" (T/E)
Università "La Sapienza" - Roma (T/E)
Università degli Studi di Siena (T, international summer school)
Università degli Studi dell'Insubria - Varese (T)
Universidad de Castilla-La Mancha (E)

Bielefeld Graduate School of Economics and Management (T)
Technical University of Lisbon (E/T, international summer school)
Lisbon University (T, international summer school)
Universidad Complutense Madrid (T, international summer school)
Universidad Rovira i Virgili - Tarragona-Reus (E)
Universidad de Barcelona (E/S)
University of Patras (E/S)
Université de Strasbourg (E)
Université de Sousse (E)
UNU-MERIT – Maastricht University (E)
Université Libre de Bruxelles (E)
Free University of Berlin (T)

Ph.D. Supervision name, year of Ph.D. (current affiliation)
Dr. Ilina Srour, 2014 (Lebanese American University, Beirut)
Dr. Gabriele Pellegrino, 2013 (EPFL, Lausanne)
Dr. Mario Veneziani, 2010 (Università di Parma)
Dr. Alessandra Catozzella, 2008 (AXA Insurance, Milano)
Prof. Elena Meschi, 2007 (Università Ca' Foscari, Venezia)
Dr. Andrea Conte, 2005 (JRC-IPTS, European Commission, Seville)
Prof. Mariacristina Piva, 2001 (Università Cattolica, Piacenza)
Dr. Gianluca Grimalda, 2000 (Kiel Institute for the World Economy, Kiel)
Prof. Fabio Montobbio, 1999 (Università Cattolica, Milano)
Dr. Vincenzo Spiezia, 1997 (OECD, Paris)
Prof. Donatella Gatti, 1997 (Université Paris-Nord, Paris XIII, Paris)

PUBLICATIONS

- Number of citations in the **SCOPUS** database: **5,625** (*h-index* = 46)
- Number of citations in the **Google Scholar** database: **16,508** (*h-index* = 71)

Books

- 1) Vivarelli, M. (2007), **Entry and Post-Entry Performance of Newborn Firms**, Routledge, London and New York.
- 2) Vivarelli, M. (1995), **The Economics of Technology and Employment: Theory and Empirical Evidence**, Elgar, Cheltenham, reprinted 1997.

Books (ed.)

- 3) Lee, E. - Vivarelli, M. (2006) (eds.), **Globalization, Employment and Income Distribution in Developing Countries**, Palgrave Macmillan, New York.
- 4) Lee, E. - Vivarelli, M. (2004) (eds.), **Understanding Globalization, Employment and Poverty Reduction**, Palgrave Macmillan, New York.

- 5) Vivarelli, M. - Pianta, M. (2000) (eds.), **The Employment Impact of Innovation: Evidence and Policy**, Routledge, London, reprinted 2001.

Articles in refereed international journals

- 6) Guerzoni, M. - Riso, L. - Vivarelli, M. (2024), Was Robert Gibrat right? A test based on the graphical model methodology, **Small Business Economics**, forthcoming (DOI version).
- 7) Montobbio, F. - Staccioli, J. - Virgillito, M. - Vivarelli, M. (2024), The empirics of technology, employment and occupations: lessons learned and challenges ahead, **Journal of Economic Surveys**, forthcoming (DOI version).
- 8) Corrocher, N. - Moschella, D. - Staccioli, J. - Vivarelli, M. (2024) Innovation and the Labor Market: Theory, Evidence and Challenges, **Industrial and Corporate Change**, 33, 519-540.
- 9) Damioli, G. - Van Roy, V. - Vertesy, D. - Vivarelli, M. (2024), Drivers of the evolution of employment in AI innovators, **Technological Forecasting and Social Change**, 201, April, 123249.
- 10) Montobbio, F. - Staccioli, J. - Virgillito, M. - Vivarelli, M. (2024), Labour-saving automation: a direct measure of occupational exposure, **World Economy**, 47, 332–361.
- 11) Santarelli, E. - Staccioli, J. - Vivarelli, M. (2023), Automation and related technologies: a mapping of the new knowledge base, **Journal of Technology Transfer**, 48, 779-813.
- 12) Piva, M. - Tani, M. - Vivarelli, M. (2023), The productivity impact of short-term labor mobility, **Small Business Economics**, 60, 691-705.
- 13) Damioli, G. - Van Roy, V. - Vertesy, D. - Vivarelli, M. (2023), AI technologies and employment. Micro evidence from the supply side, **Applied Economics Letters**, 30, 816-821.
- 14) Montobbio, F. - Staccioli, J. - Virgillito, M. - Vivarelli, M. (2022), Robots and the origin of their labour-saving impact, **Technological Forecasting and Social Change**, 174, January, 121122.
- 15) Dawid, H. - Pellegrino, G. - Vivarelli, M. (2021), The role of demand in fostering product vs process innovation: a model and an empirical test, **Journal of Evolutionary Economics**, 31, 1553-1572.
- 16) Ugur, M.- Vivarelli, M. (2021), Innovation, firm survival and productivity: The state of the art, **Economics of Innovation and New Technology**, 30, 433-467.
- 17) Dosi, G. - Piva, M.- Virgillito, M. - Vivarelli, M. (2021) Embodied and disembodied technological change: the sectoral patterns of job-creation and job-destruction, **Research Policy**, 50 (4), 104199.

- 18) Arouri, H. - Youssef, A.B - Quatraro, F. - Vivarelli, M. (2020) Drivers of Growth in Tunisia: Young Firms vs Incumbents, **Small Business Economics**, 54, 323-340 .
- 19) Pellegrino, G. - Piva, M. - Vivarelli, M. (2019), Beyond R&D: The role of Embodied Technological Change in Affecting Employment, **Journal of Evolutionary Economics**, 29, 1151-1171.
- 20) Barbieri, L. - Piva, M. - Vivarelli, M. (2019), R&D, Embodied Technological Change and Employment: Evidence from Italian Microdata, **Industrial and Corporate Change**, 28, 203-218.
- 21) Castellani, D. - Schubert, T. - Piva, M. - Vivarelli, M. (2019), R&D and Productivity in the US and the EU: Sectoral Specificities and Differences in the Crisis, **Technological Forecasting and Social Change**, 138, 279-291.
- 22) Van Roy, V. - Vertesy, D. - Vivarelli, M. (2018), Technology and Employment: Mass Unemployment or Job Creation? Empirical Evidence from European Patenting Firms, **Research Policy**, 47, 1762-1776.
- 23) Piva, M. - Tani, M. - Vivarelli, M. (2018), Business Visits, Knowledge Diffusion and Productivity, **Journal of Population Economics**, 31, 1321-1338.
- 24) Piva, M. - Vivarelli, M. (2018), Is Innovation Destroying Jobs? Firm-Level Evidence from the EU, **Sustainability**, 10(4), 1279.
- 25) Castellani, D. - Piva, M. - Schubert, T. - Vivarelli, M. (2018), Can European Productivity Make Progress?, **Intereconomics**, 53, 75-78.
- 26) Piva, M. - Vivarelli, M. (2018), Technological Change and Employment: Is Europe Ready for the Challenge?, **Eurasian Business Review**, 8, 13-32.
- 27) Colombo, L. - Dawid, H. - Piva, M. - Vivarelli, M. (2017), Does Easy Start-Up Formation Hamper Incumbents' R&D Investment?, **Small Business Economics**, 49, 513-531.
- 28) Haile, G. - Srour, I. - Vivarelli, M. (2017), Imported Technology and Manufacturing Employment in Ethiopia, **Eurasian Business Review**, 7, 1-23.
- 29) Meschi, E. - Taymaz, E. - Vivarelli, M. (2016), Globalization, Technological Change and Labor Demand: A Firm Level Analysis for Turkey, **Review of World Economics**, 152, 655-680.
- 30) Colombelli, A. - Krafft, J. - Vivarelli, M. (2016), To Be Born Is Not Enough: The Key Role of Innovative Startups, **Small Business Economics**, 47, 277-291.
- 31) Vivarelli, M. (2016), The Middle Income Trap: A Way Out Based on Technological and Structural Change, **Economic Change and Restructuring**, 49, 159-193.
- 32) Catozzella, A. - Vivarelli, M. (2016), The Possible Adverse Impact of Innovation Subsidies: Some Evidence from Italy, **International Entrepreneurship and Management Journal**, 12, 351-368.

- 33) Piva, M. - Pellegrino, G. - Vivarelli, M. (2015), How do New Entrepreneurs Innovate?, **Economia e Politica Industriale - Journal of Industrial and Business Economics**, 42, 323-341.
- 34) Quatraro, F. - Vivarelli, M. (2015), Drivers of Entrepreneurship and Post-entry Performance of Newborn Firms in Developing Countries, **World Bank Research Observer**, 30, 277–305.
- 35) Ortega-Argilés, R. - Piva, M. - Vivarelli, M. (2015), The Productivity Impact of R&D Investment: Are High-Tech Sectors Still Ahead?, **Economics of Innovation and New Technology**, 24, 204-222.
- 36) Ortega-Argilés, R. - Piva, M. - Vivarelli, M. (2014), The Transatlantic Productivity Gap: Is R&D the Main Culprit?, **Canadian Journal of Economics**, 47, 1342-1371.
- 37) Conte, A. - Vivarelli, M. (2014), Succeeding in Innovation: Key Insights on the Role of R&D and Technological Acquisition Drawn from Company Data, **Empirical Economics**, 47, 1317-1340.
- 38) García-Quevedo, J. - Pellegrino, G. - Vivarelli, M. (2014), R&D Drivers and Age: Are Young Firms Different?, **Research Policy**, 43, 1544-1556.
- 39) Catozzella, A. - Vivarelli, M. (2014), The Catalysing Role of In-house R&D in Fostering Complementarity among Innovative Inputs, **Industry and Innovation**, 21, 179-196.
- 40) Vivarelli, M. (2014), Innovation, Employment, and Skills in Advanced and Developing Countries: A Survey of the Economic Literature, **Journal of Economic Issues**, 48, 123-154.
- 41) Catozzella, A. - Vivarelli, M. (2014), Beyond Absorptive Capacity: In-house R&D as a Driver of Innovative Complementarities, **Applied Economics Letters**, 21, 39-42.
- 42) Vivarelli, M. (2013), Is Entrepreneurship Necessarily Good? Microeconomic Evidence from Developed and Developing Countries, **Industrial and Corporate Change**, 22, 1453-1495.
- 43) Vivarelli, M. (2013), Technology, Employment and Skills: An Interpretative Framework, **Eurasian Business Review**, 3, 66-89.
- 44) Iammarino, S.- Piva, M. - Vivarelli, M. - von Tunzelmann, N. (2012), Technological Capabilities and Patterns of Innovative Cooperation of Firms in the UK Regions, **Regional Studies**, 46, 1283-1301.
- 45) Pellegrino, G. - Piva, M. - Vivarelli, M. (2012), Young Firms and Innovation: A Microeconometric Analysis, **Structural Change and Economic Dynamics**, 23, 329-340.
- 46) Bogliacino, F. - Vivarelli, M. (2012), The Job Creation Effect of R&D Expenditures, **Australian Economic Papers**, 51, 96-113.
- 47) Kumbhakar, S.C. - Ortega-Argilés, R. - Potters, L. - Vivarelli, M. - Voigt, P. (2012), Corporate R&D and Firm Efficiency: Evidence from Europe's Top R&D Investors, **Journal of Productivity Analysis**, 37, 125-140.

- 48) Bogliacino, F. - Piva, M. - Vivarelli, M. (2012), R&D and Employment: An Application of the LSDVC Estimator Using European Data, **Economics Letters**, 116, 56-59.
- 49) Catozzella, A. - Vivarelli, M. (2012), The Possible Adverse Impact of Innovation Subsidies: Some Evidence from a Bivariate Switching Model, **Economics Bulletin**, 32, n.1, 648-661.
- 50) Meschi, E. - Taymaz, E. - Vivarelli, M. (2011), Trade, Technology and Skills: Evidence from Turkish Microdata, **Labour Economics**, 18, S60-S70.
- 51) Araújo, B.C. - Bogliacino, F. - Vivarelli, M. (2011), Technology, Trade and Skills in Brazil: Some Evidence from Microdata, **CEPAL Review**, 105, 157-171.
- 52) Ortega-Argilés R.- Potters, L. - Vivarelli, M. (2011), R&D and Productivity: Testing Sectoral Peculiarities Using Micro Data, **Empirical Economics**, 41, 817-839.
- 53) Moncada-Paternò-Castello, P. - Vivarelli, M. - Voigt, P. (2011), Drivers and Impacts in the Globalization of Corporate R&D: An Introduction Based on the European Experience, **Industrial and Corporate Change**, 20, 585-603.
- 54) Conte, A. - Vivarelli, M. (2011), Imported Skill Biased Technological Change in Developing Countries, **Developing Economies**, 49, 36-65.
- 55) Ortega-Argilés R. - Piva, M. - Potters, L. - Vivarelli, M. (2010), Is Corporate R&D Investment in High-Tech Sectors more Effective?, **Contemporary Economic Policy**, 28, 353-365.
- 56) Grimalda, G. - Vivarelli, M. (2010), Is Inequality the Price to Pay for Higher Growth in Middle-Income Countries?, **Journal of Evolutionary Economics**, 20, 265-306.
- 57) Piva, M. - Vivarelli, M. (2009), The Role of Skills as a Major Driver of Corporate R&D, **International Journal of Manpower**, 30, 835-852.
- 58) Ortega-Argilés R. - Vivarelli, M. - Voigt, P. (2009), R&D in SMEs: A Paradox?, **Small Business Economics**, 33, 3-11.
- 59) Piva, M. - Vivarelli, M. (2009), Demand-Pulled Innovation under Liquidity Constraints, **Applied Economics Letters**, 16, 289-293.
- 60) Meschi, E. - Vivarelli, M. (2009), Trade and Income Inequality in Developing Countries, **World Development**, 37, 287-302.
- 61) Lotti, F. - Santarelli, E. - Vivarelli, M. (2009), Defending Gibrat's Law as a Long-Run Regularity, **Small Business Economics**, 32, 31-44.
- 62) Piva, M. - Vivarelli, M. (2007), Is Demand-Pulled Innovation Equally Important in Different Groups of Firms?, **Cambridge Journal of Economics**, 31, 691-710.
- 63) Santarelli, E. - Vivarelli, M. (2007), Entrepreneurship and the Process of Firms' Entry, Survival and Growth, **Industrial and Corporate Change**, 16, 455-488.

- 64) Lee, E. - Vivarelli, M. (2006), The Social Impact of Globalization in the Developing Countries, **International Labour Review**, 145, 167-184.
- 65) Piva, M. - Santarelli, E. - Vivarelli, M. (2006), Technological and Organizational Changes as Determinants of the Skill Bias: Evidence from the Italian Machinery Industry, **Managerial and Decision Economics**, 27, 63-73.
- 66) Piva, M. - Vivarelli, M. (2005), Innovation and Employment: Evidence from Italian Microdata, **Journal of Economics**, 86, 65-83.
- 67) Piva, M. - Santarelli, E. - Vivarelli, M. (2005), The Skill Bias Effect of Technological and Organisational Change: Evidence and Policy Implications, **Research Policy**, 34, 141-157.
- 68) Piga, C. - Vivarelli, M. (2004), Internal and External R&D: A Sample Selection Approach, **Oxford Bulletin of Economics and Statistics**, 66, 457-482.
- 69) Piva, M. - Vivarelli, M. (2004), Technological Change and Employment: Some Micro Evidence from Italy, **Applied Economics Letters**, 11, 373-376.
- 70) Vivarelli, M. (2004), Are All the Potential Entrepreneurs So Good? **Small Business Economics**, 23, 41-49.
- 71) Piva, M. - Vivarelli, M. (2004), The Determinants of the Skill Bias in Italy: R&D, Organisation or Globalisation?, **Economics of Innovation and New Technology**, 13, 329-347.
- 72) Lotti, F. - Santarelli, E. - Vivarelli, M. (2003), Does Gibrat's Law Hold Among Young, Small Firms?, **Journal of Evolutionary Economics**, 13, 213-235.
- 73) Piga, C. - Vivarelli, M. (2003), Sample Selection in Estimating the Determinants of Cooperative R&D, **Applied Economics Letters**, 10, 243-246.
- 74) Piva, M. - Vivarelli, M. (2002), The Skill Bias: Comparative Evidence and an Econometric Test, **International Review of Applied Economics**, 16, 347-357.
- 75) Barba Navaretti, G. - Santarelli, E. - Vivarelli, M. (2002), The Role of Subsidies in Promoting Italian Joint Ventures in Least Developed and Transition Economies, **Applied Economics**, 34, 1563-1569.
- 76) Santarelli, E. - Vivarelli, M. (2002), Is Subsidizing Entry an Optimal Policy?, **Industrial and Corporate Change**, 11, 39-52.
- 77) Piva, M. - Vivarelli, M. (2001), The Skill Bias in Italy: A First Report, **Economics Bulletin**, 15, n.2, 1-8.
- 78) Lotti, F. - Santarelli, E. - Vivarelli, M. (2001), The Relationship between Size and Growth: The Case of Italian Newborn Firms, **Applied Economics Letters**, 8, 451-454.
- 79) Audretsch, D. - Santarelli, E. - Vivarelli, M. (1999), Start-Up Size and Industrial Dynamics: Some Evidence from Italian Manufacturing, **International Journal of Industrial Organization**, 17, 965-983.

- 80) Arrighetti, A. - Vivarelli, M. (1999), The Role of Innovation in the Postentry Performance of New Small Firms: Evidence from Italy, **Southern Economic Journal**, 65, 927-939.
- 81) Vivarelli, M. - Audretsch, D. (1998), The Link between the Entry Decision and Post-Entry Performance: Evidence from Italy, **Industrial and Corporate Change**, 7, 485-500.
- 82) Padalino, S. - Vivarelli, M. (1997), The Employment Intensity of Economic Growth in the G-7 Countries, **International Labour Review**, 136, 191-213.
- 83) Piergiovanni, R. - Santarelli, E. - Vivarelli, M. (1997), From Which Source Do Small Firms Derive Their Innovative Inputs? Some Evidence From Italian Industry, **Review of Industrial Organization**, 12, 243-258.
- 84) Vivarelli, M. - Evangelista, R. - Pianta, M. (1996), Innovation and Employment: Evidence From Italian Manufacturing, **Research Policy**, 25, 1013-1026.
- 85) Audretsch, D. - Vivarelli, M. - (1996), Firm Size and R&D Spillovers: Evidence from Italy, **Small Business Economics**, 8, 249-258.
- 86) Audretsch, D. - Vivarelli, M. (1996), Determinants of New-Firm Startups in Italy, **Empirica**, 23, 91-105.
- 87) Audretsch, D. - Vivarelli, M. (1995), New Firm Formation in Italy: A First Report, **Economics Letters**, 48, 77-81.
- 88) Audretsch, D. - Vivarelli, M. (1994), Small Firms and R&D Spillovers: Evidence from Italy, **Revue d'Economie Industrielle**, 67(1), 225-237.
- 89) Foti, A. - Vivarelli, M. (1994), An Econometric Test of the Self-employment Model: The Case of Italy, **Small Business Economics**, 6, 81-93; reprinted in Storey, D. (2000) (ed.), **Small Business: Critical Perspectives**, Vol. 4, 1450-1468.
- 90) Frey, M. - Vivarelli, M. (1991), New Technology and Employment in Italian Telecommunications, **Technovation**, 11, 303-314.
- 91) Vivarelli, M. (1991), The Birth of New Enterprises, **Small Business Economics**, 3, 215-223.

Chapters in edited books

- 92) Vivarelli, M. (2021), Globalisation, Structural Change and Technological Progress in Emerging Economies: The Impact on Employment and Skills, in: Alcorta, L. - Foster-McGregor, N. - Verspagen, B. - Szirmai, A. (eds.), **New Perspectives on Structural Change: Causes and Consequences of Structural Change in the Global Economy**, Oxford University Press, Oxford, Chapter 25, 596-621.
- 93) Barbieri, L. - Mussida, C. - Piva, M. - Vivarelli, M. (2020), Testing the Employment and Skill Impact of New Technologies, in: Zimmermann, K. (ed.), **Handbook of Labor**,

Human Resources and Population Economics, section: Technological Changes and the Labor Market, Springer, Cham.

- 94) Vivarelli, M. (2015). Innovation and Employment, in Wright, J.D. (ed.), **International Encyclopedia of the Social & Behavioral Sciences**, 2nd edition, Vol. 12, Elsevier, Oxford, 152–159.
- 95) Vivarelli, M. (2014), Entrepreneurship and Post-entry Performance: The Microeconomic Evidence, in Ferragina, M. – Taymaz, E. – Yilmaz, K. (eds.), **Innovation, Globalization and Firm Dynamics: Lessons for Enterprise Policy**, Routledge, Abingdon, 27-50.
- 96) Piva, M. - Vivarelli, M. (2013), The Impact of Technological Change on Employment and Skills: Theory and Empirical Evidence, in Morone P. (ed.), **Knowledge, Innovation and Internationalization**, Routledge, Abingdon, 155-170.
- 97) Iammarino, S. - Piva, M. - Vivarelli, M. - von Tunzelmann, N. (2013), Firm Capabilities and Cooperation for Innovation: Evidence from the UK Regions, in Crescenzi, R. - Percoco, M. (eds.) **Geography, Institutions and Regional Economic Performance**, Springer, Heidelberg, 281-302.
- 98) Pellegrino, G. - Piva, M. - Vivarelli, M. (2011), How do Young Innovative Companies Innovate?, in Audretsch, D.B. - Falck, O. - Heblich, S. - Lederer, A. (eds.), **Handbook of Research on Innovation and Entrepreneurship**, Elgar, Cheltenham, 403-420.
- 99) Piva, M. - Vivarelli, M. (2008), Skill Endowment and R&D Investment: Evidence from Microdata, in Van Beers, C. - Kleinknecht, A. - Ortt, R. - Verburg, R. (eds.), **Determinants of Innovative Behaviour: A Firm's Internal Practices and its External Environment**, Palgrave Macmillan, New York, 63-76.
- 100) Lotti, F. - Santarelli, E. - Vivarelli, M. (2007), Gibrat's Law as a Long Run Regularity: Theory and Evidence, in Arauzo-Carod J.M. - Manjón-Antolín M.C. (eds), **Entrepreneurship, Industrial Location and Economic Growth**, Elgar, Cheltenham, 129-140.
- 101) Vivarelli, M. (2007), Innovation and Employment, in Hanusch, H. - Pyka, A. (eds.), **Elgar Companion to Neo-Schumpeterian Economics**, Elgar, Cheltenham, 719-732.
- 102) Lee, E. - Vivarelli, M. (2006), Introduction, in Lee, E. - Vivarelli, M. (eds.), **Globalization, Employment and Income Distribution in Developing Countries**, Palgrave Macmillan, New York, 1-23.
- 103) Lotti, F. - Santarelli, E. - Vivarelli, M. (2006), Gibrat's Law in a Medium-Technology Industry: Empirical Evidence for Italy, in Santarelli, E. (ed.), **Entrepreneurship, Growth and Innovation: The Dynamics of Firms and Industries**, Springer, New York, 149-164.
- 104) Lee, E. - Vivarelli, M. (2004), Introduction, in Lee, E. - Vivarelli, M. (eds.), **Understanding Globalization, Employment and Poverty Reduction**, Palgrave Macmillan, New York, 3-12.

- 105) Vivarelli, M. (2004), Globalization, Skills and Within-Country Income Inequality in Developing Countries, in Lee, E. - Vivarelli, M. (eds.), **Understanding Globalization, Employment and Poverty Reduction**, Palgrave Macmillan, New York, 211-243.
- 106) Lee, E. - Vivarelli, M. (2004), Conclusion, in Lee, E. - Vivarelli, M. (eds.), **Understanding Globalization, Employment and Poverty Reduction**, Palgrave Macmillan, New York, 375-380.
- 107) Lotti, F. - Santarelli, E. - Vivarelli, M. (2003), Is It Really Wise to Design Policies in Support of New Firm Formation?, in Baldassarri, M - Lambertini, L. (eds.), **Antitrust, Regulation and Competition**, Palgrave Macmillan, New York, 135-152.
- 108) Vivarelli, M. (2002), Unemployment in the Current Economic Debate: The Role of Technology and Structural Change, in Széll, G. - Cella G. P. (eds.), **The Injustice at Work: An International View on the World of Labour and Society**, Peter Lang, Frankfurt Am Main, 86-108.
- 109) Spiezia, V. - Vivarelli, M. (2002), Innovation and Employment: a Critical Survey, in Greenan, N. - L'Horty Y. - Mairesse, J. (eds.), **Productivity, Inequality and the Digital Economy: A Transatlantic Perspective**, MIT Press, Cambridge (Mass.), 101-131.
- 110) Spiezia, V. - Vivarelli, M. (2001), Changing Working Time Patterns, in Petit, P. - Soete, L. (eds.), **Technology and the Future of European Employment**, Elgar, Cheltenham, 405-424.
- 111) Pianta, M. - Vivarelli, M. (2000), Introduction: Economic Structure, Technology and Employment, in Vivarelli, M. - Pianta, M. (eds.), **The Employment Impact of Innovation: Evidence and Policy**, Routledge, London, 1-11.
- 112) Spiezia, V. - Vivarelli, M. (2000), The Analysis of Technological Change and Employment, in Vivarelli, M. - Pianta, M. (eds.), **The Employment Impact of Innovation: Evidence and Policy**, Routledge, London, 12-25.
- 113) Simonetti, R. - Taylor, K. - Vivarelli, M. (2000), Modelling the Employment Impact of Innovation: Do Compensation Mechanisms Work?, in Vivarelli, M. - Pianta, M. (eds.), **The Employment Impact of Innovation: Evidence and Policy**, Routledge, London, 26-43.
- 114) Pianta, M. - Vivarelli, M. (2000), Conclusions: Are Employment Friendly Policies Possible?, in Vivarelli, M. - Pianta, M. (eds.), **The Employment Impact of Innovation: Evidence and Policy**, Routledge, London, 207-216.
- 115) Audretsch, D. - Santarelli, E. - Vivarelli, M. (1999), Does Start Up Size Influence the Likelihood of Survival?, in Audretsch, D - Thurik, R. (eds.) , **Innovation, Industry Evolution and Employment**, Cambridge University Press, Cambridge, 280-296.
- 116) Pianta, M. - Vivarelli, M. (1999), Employment Dynamics and Structural Change in Europe, in Fagerberg, I. - Guerrieri, P. - Verspagen, B. (eds.), **The Economic Challenge for Europe: Adapting to Innovation-based Growth**, Elgar, Cheltenham, 83-105.

Other Publications

Books

- 117) Vivarelli, M. (1994), **La nascita delle imprese in Italia: teorie e verifiche empiriche**, Egea, Milano.

Books (ed.)

- 118) Vivarelli, M. (1997) (ed.), **Occupazione e disoccupazione in Italia: i fattori strutturali**, Giuffrè, Milano.

Articles in refereed Italian journals

- 119) Piva, M. - Vivarelli, M. (2018), Innovation, jobs, skills and tasks: a multifaceted relationship, **Giornale di diritto del lavoro e di relazioni industriali**, n.159 (3), 599-619.
- 120) Bogliacino, F. - Piva, M. - Vivarelli, M. (2014), Technology and Employment: The job Creation Effect of Business R&D, **Rivista Internazionale di Scienze Sociali**, 122, 239-264.
- 121) Vivarelli, M. - Piga, C. - Piva, M. (2004), Il triangolo competitivo: innovazione, organizzazione e lavoro qualificato, **L'Industria**, 25, 655-674.
- 122) Santarelli, E. - Vivarelli, M. (2004), Cambiamento organizzativo, innovazione tecnologica e formazione: le nuove sfide per il futuro, **L'Industria**, 25, 173-176.
- 123) Piva, M. - Spiezia, V. - Vivarelli, M. (2002), Technological change and employment: a twofold theoretical critique and the empirical evidence, **Economia e Politica Industriale**, 115, 93-124.
- 124) Arrighetti, A. - Vivarelli, M. (1999), Motivazioni economiche e componenti evolutive nella formazione di *spin-off*, **Rivista di Politica Economica**, 89, n.10, 39-73.
- 125) Pianta, M. - Spiezia, V. - Vivarelli, M. (1998), Una spiegazione strutturale della disoccupazione: Italia e paesi avanzati a confronto, **Rivista Internazionale di Scienze Sociali**, 106, 191-214.
- 126) Vivarelli, M. - Montobbio, F. (1996), Le determinanti della formazione del salario reale nel secondo dopoguerra, **Economia & Lavoro**, 30 (3), 3-14.
- 127) Vivarelli, M. (1996), Le piccole imprese in fase di start-up: motivazioni della nascita e performances successive all'entrata, **Economia & Lavoro**, 30 (1-2), 143-152.
- 128) Vivarelli, M. (1995), Spese in R&S e ricerca universitaria come determinanti dell'attività innovativa delle imprese: l'importanza di una disaggregazione dimensionale, **Politica Economica**, 11(2), 301-320.

- 129) Vivarelli, M. (1991), Natalita' e mortalita' delle piccole imprese: un modello interpretativo, **L'Industria**, 12(3), 467-481.
- 130) Vivarelli, M. (1991), I meccanismi compensativi della disoccupazione tecnologica. Il dibattito classico e i modelli recenti, **Economia Politica**, 8(3), 517-557.
- 131) Frey, M. – Vivarelli, M. (1991), Tecnologia e occupazione nelle telecomunicazioni. Un'analisi comparata: Italia-Regno Unito, **Rivista Internazionale di Scienze Sociali**, 99, 449-467.
- 132) Rangone, M. - Vivarelli, M. (1990), Technological change and fall in wages: a critical note, **Economia & Lavoro**, 24(4), 13-26.
- 133) Marengo, L. - Vivarelli, M. (1990), Una riflessione sulla teoria evoluzionista: microfondazioni e aggregazione macroeconomica, **Economia e Politica Industriale**, 67, 189-203.
- 134) Scalmani, T. - Vivarelli, M. (1989), La disoccupazione come categoria economica: il contributo di Emil Lederer, **Giornale degli Economisti e Annali di Economia**, 48(11/12), 569-592.
- 135) Vivarelli, M. (1989), Economia e storia: l'esempio della disoccupazione tecnologica, **Annali di Storia dell'Impresa**, 5/6, 395-407.
- 136) Vivarelli, M. (1988), Progresso tecnico e occupazione: un'incursione nella storia della teoria economica, **Economia e Politica Industriale**, 58, 273-290.

Chapters in Italian books

- 137) Murtinu, S. - Vivarelli, M. (2016), Imprenditorialità, performance post-entry e innovazione, in Paolazzi, L. – Sylos Labini, M. – Traù, F. (eds.), **Gli imprenditori**, Marsilio, Venezia, 241-262.
- 138) Piergiovanni, R. - Santarelli, E. - Vivarelli, M. (2008), Le politiche per la formazione di nuove imprese, in De Blasio, G. and Lotti, F. (eds.), **La valutazione degli aiuti alle imprese**, Il Mulino, Bologna, 121-147.
- 139) Piva, M. - Santarelli, E. - Vivarelli, M. (2005), Cambiamento tecnologico ed organizzativo come determinanti dello skill-bias: quali evidenze nel manifatturiero italiano? in Mariotti, S. (ed.), **Internazionalizzazione, innovazione e crescita dell'industria italiana**, Franco Angeli, Milano, 110-127.
- 140) Piva, M. - Vivarelli, M. (2005), Determinanti dell'innovazione e sviluppo locale: quale ruolo per le politiche pubbliche?, in Ciciotti E. - Rizzi, P. (eds.), **Politiche per lo sviluppo territoriale**, Carocci, Roma, 155-178.
- 141) Piva, M. - Vivarelli, M. (2001), Determinanti dello skill-bias in un paese a tecnologie intermedie: il caso del settore manifatturiero italiano, in **Atti dei convegni Lincei 172, Convegno: "Tecnologia e Società I: tecnologia, produttività, sviluppo"**, Accademia Nazionale dei Lincei, Roma, 143-168.

142) Vivarelli, M. - Gatti, D. (2000), Tecnologia e occupazione, in Malerba, F. (ed.), **Economia dell'innovazione**, Carocci, Roma, 495-517.