

MARCO VIVARELLI

(OCTOBER 2020)

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
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 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 28 more specific criteria - According to SSRN , among the top 8,000 economics authors worldwide he is ranked 439 in terms of total downloads in the last twelve months and 564 in terms of all time total number of downloads - According to VIA-Academy , he is ranked among the top Italian scientists all over the world (15th among the economists) - According to IZA , he is ranked 3rd in terms of number of downloads, among a total of 9,914 IZA discussion paper authors
Fellowships, Professorships, Scientific boards	Professorial Fellow of 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 Academic Advisory Council of the Global Digital Foundation (Brussels, Canberra and Washington D.C), since September 2016.

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

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

Member of the **Editorial Board** of *Sustainability* (Section: "Economic, Business and Management Aspects of Sustainability") since July 2017.

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

Associate Editor of *Economia e Politica Industriale - Journal of Industrial and Business Economics* 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 the electronic journal: "Economics"
(<http://www.economics-ejournal.org/>) 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**
*Cuadernos de Economía**
Economia e Politica Industriale-Journal of Industrial and Business Economics
*Economia Politica-Journal of Analytical and Institutional Economics**
*Economic and Labour Relations Review**
*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**
*ETRI Journal**
*Eurasian Business Review**
*European Journal of Development Research**
*European Journal of International Management**
*European Planning Studies**
*Feminist Economics**
*Futures**
*Growth and Change**
*Industrial and Corporate Change**
*Industry and Innovation**
*International Entrepreneurship and Management Journal**
*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 Applied Economics**
*International Review of Economics and Finance**
*International Small Business Journal**
*International Tax and Public Finance**
*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 Inequality**
*Journal of Economic Interaction and Coordination**
*Journal of Economic Issues**
*Journal of Economic Psychology**
*Journal of Economic Surveys**
*Journal of Economics**
*Journal of Engineering and Technology Management**
*Journal of Evolutionary 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**
*Metroeconomica**
OECD Journal: Economic Studies
*Oxford Economic Papers**
*Papers in Regional Science**
*R&D Management**
*Regional Science and Urban Economics**
*Regional Studies**
*Research in Economics**
*Research Policy**
*Review of Industrial Organization**
*Review of Development Economics**
*Review of World Economics**
*Science and Public Policy**
*Scientometrics**
*Singapore Economic Review**
*Small Business Economics**
*Sociological Quarterly**
*Structural Change and Economic Dynamics**
*Sustainability**
*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, Rivista Italiana degli Economisti, 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

- “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.

13,

- Two invited sessions within "ERC/METU International Conference in Economics V", Middle East Technical University, Ankara, September 10-2001.
- “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

- “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 and research projects

- 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 (**IPTS-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 145 international conferences and workshops (115 invitations; of which 24 invited keynotes)
 52 international invited seminars
 58 Italian conferences and workshops (30 invitations)
 41 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 Sant'Anna-IUSS Doctoral Program in Economics (T/E)
 Università Cattolica di Milano (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)
 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 articles in journals listed in **WEB OF SCIENCE**: **74** (indexed with *)
- Number of citations in the **WEB OF SCIENCE** database (October 2020): **3,600** (*h-index* = 35)
- Number of citations in the **SCOPUS** database (October 2020): **3,518** (*h-index* = 38)
- Number of citations in the **Google Scholar** database (June 2020): **11,134** (*h-index* = 59)

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) Ugur, M.- Vivarelli, M. (2020), Innovation, firm survival and productivity: The state of the art, **Economics of Innovation and New Technology***, forthcoming, doi: 10.1080/10438599.2020.1828509
- 7) Dawid, H. - Pellegrino, G. - Vivarelli, M. (2020), The role of demand in fostering product vs process innovation: a model and an empirical test, **Journal of Evolutionary Economics***, forthcoming, doi:10.1007/s00191-020-00695-3
- 8) 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 .
- 9) 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.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) Piva, M. - Tani, M. - Vivarelli, M. (2018), Business Visits, Knowledge Diffusion and Productivity, **Journal of Population Economics***, 31, 1321-1338.
- 14) Piva, M. - Vivarelli, M. (2018), Is Innovation Destroying Jobs? Firm-Level Evidence from the EU, **Sustainability***, 10(4), 1279.
- 15) Castellani, D. - Piva, M. - Schubert, T. - Vivarelli, M. (2018), Can European Productivity Make Progress?, **Intereconomics**, 53, 75-78.
- 16) Piva, M. - Vivarelli, M. (2018), Technological Change and Employment: Is Europe Ready for the Challenge?, **Eurasian Business Review***, 8, 13-32.

- 17) 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.
- 18) Haile, G. - Srour, I. - Vivarelli, M. (2017), Imported Technology and Manufacturing Employment in Ethiopia, **Eurasian Business Review***, 7, 1-23.
- 19) 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.
- 20) 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.
- 21) Vivarelli, M. (2016), The Middle Income Trap: A Way Out Based on Technological and Structural Change, **Economic Change and Restructuring***, 49, 159-193.
- 22) Catozzella, A. - Vivarelli, M. (2016), The Possible Adverse Impact of Innovation Subsidies: Some Evidence from Italy, **International Entrepreneurship and Management Journal***, 12, 351-368.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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.
- 27) 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.
- 28) García-Quevedo, J. - Pellegrino, G. - Vivarelli, M. (2014), R&D Drivers and Age: Are Young Firms Different?, **Research Policy***, 43, 1544-1556.
- 29) 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.
- 30) 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.
- 31) Catozzella, A. - Vivarelli, M. (2014), Beyond Absorptive Capacity: In-house R&D as a Driver of Innovative Complementarities, **Applied Economics Letters***, 21, 39-42.

- 32) Vivarelli, M. (2013), Is Entrepreneurship Necessarily Good? Microeconomic Evidence from Developed and Developing Countries, **Industrial and Corporate Change***, 22, 1453-1495.
- 33) Vivarelli, M. (2013), Technology, Employment and Skills: An Interpretative Framework, **Eurasian Business Review***, 3, 66-89.
- 34) 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.
- 35) Pellegrino, G. - Piva, M. - Vivarelli, M. (2012), Young Firms and Innovation: A Microeconometric Analysis, **Structural Change and Economic Dynamics***, 23, 329-340.
- 36) Bogliacino, F. - Vivarelli, M. (2012), The Job Creation Effect of R&D Expenditures, **Australian Economic Papers***, 51, 96-113.
- 37) 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.
- 38) 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.
- 39) 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.
- 40) Meschi, E. - Taymaz, E. - Vivarelli, M. (2011), Trade, Technology and Skills: Evidence from Turkish Microdata, **Labour Economics***, 18, S60-S70.
- 41) Araújo, B.C. - Bogliacino, F. - Vivarelli, M. (2011), Technology, Trade and Skills in Brazil: Some Evidence from Microdata, **CEPAL Review***, 105, 157-171.
- 42) Ortega-Argilés R.- Potters, L. - Vivarelli, M. (2011), R&D and Productivity: Testing Sectoral Peculiarities Using Micro Data, **Empirical Economics***, 41, 817-839.
- 43) 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.
- 44) Conte, A. - Vivarelli, M. (2011), Imported Skill Biased Technological Change in Developing Countries, **Developing Economies***, 49, 36-65.
- 45) 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.
- 46) 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.

- 47) Piva, M. - Vivarelli, M. (2009), The Role of Skills as a Major Driver of Corporate R&D, **International Journal of Manpower***, 30, 835-852.
- 48) Ortega-Argilés R. - Vivarelli, M. - Voigt, P. (2009), R&D in SMEs: A Paradox?, **Small Business Economics***, 33, 3-11.
- 49) Piva, M. - Vivarelli, M. (2009), Demand-Pulled Innovation under Liquidity Constraints, **Applied Economics Letters***, 16, 289-293.
- 50) Meschi, E. - Vivarelli, M. (2009), Trade and Income Inequality in Developing Countries, **World Development***, 37, 287-302.
- 51) Lotti, F. - Santarelli, E. - Vivarelli, M. (2009), Defending Gibrat's Law as a Long-Run Regularity, **Small Business Economics***, 32, 31-44.
- 52) Piva, M. - Vivarelli, M. (2007), Is Demand-Pulled Innovation Equally Important in Different Groups of Firms?, **Cambridge Journal of Economics***, 31, 691-710.
- 53) Santarelli, E. - Vivarelli, M. (2007), Entrepreneurship and the Process of Firms' Entry, Survival and Growth, **Industrial and Corporate Change***, 16, 455-488.
- 54) Lee, E. - Vivarelli, M. (2006), The Social Impact of Globalization in the Developing Countries, **International Labour Review***, 145, 167-184.
- 55) 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.
- 56) Piva, M. - Vivarelli, M. (2005), Innovation and Employment: Evidence from Italian Microdata, **Journal of Economics***, 86, 65-83.
- 57) 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.
- 58) Piga, C. - Vivarelli, M. (2004), Internal and External R&D: A Sample Selection Approach, **Oxford Bulletin of Economics and Statistics***, 66, 457-482.
- 59) Piva, M. - Vivarelli, M. (2004), Technological Change and Employment: Some Micro Evidence from Italy, **Applied Economics Letters***, 11, 373-376.
- 60) Vivarelli, M. (2004), Are All the Potential Entrepreneurs So Good? **Small Business Economics***, 23, 41-49.
- 61) 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.
- 62) Lotti, F. - Santarelli, E. - Vivarelli, M. (2003), Does Gibrat's Law Hold Among Young, Small Firms?, **Journal of Evolutionary Economics***, 13, 213-235.

- 63) Piga, C. - Vivarelli, M. (2003), Sample Selection in Estimating the Determinants of Cooperative R&D, **Applied Economics Letters***, 10, 243-246.
- 64) Piva, M. - Vivarelli, M. (2002), The Skill Bias: Comparative Evidence and an Econometric Test, **International Review of Applied Economics***, 16, 347-357.
- 65) 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.
- 66) Santarelli, E. - Vivarelli, M. (2002), Is Subsidizing Entry an Optimal Policy?, **Industrial and Corporate Change***, 11, 39-52.
- 67) Piva, M. - Vivarelli, M. (2001), The Skill Bias in Italy: A First Report, **Economics Bulletin***, 15, n.2, 1-8.
- 68) 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.
- 69) 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.
- 70) 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.
- 71) 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.
- 72) Padalino, S. - Vivarelli, M. (1997), The Employment Intensity of Economic Growth in the G-7 Countries, **International Labour Review***, 136, 191-213.
- 73) 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.
- 74) Vivarelli, M. - Evangelista, R. - Pianta, M. (1996), Innovation and Employment: Evidence From Italian Manufacturing, **Research Policy***, 25, 1013-1026.
- 75) Audretsch, D. - Vivarelli, M. - (1996), Firm Size and R&D Spillovers: Evidence from Italy, **Small Business Economics***, 8, 249-258.
- 76) Audretsch, D. - Vivarelli, M. (1996), Determinants of New-Firm Startups in Italy, **Empirica***, 23, 91-105.
- 77) Audretsch, D. - Vivarelli, M. (1995), New Firm Formation in Italy: A First Report, **Economics Letters***, 48, 77-81.
- 78) Audretsch, D. - Vivarelli, M. (1994), Small Firms and R&D Spillovers: Evidence from Italy, **Revue d'Economie Industrielle**, 67(1), 225-237.

- 79) 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.
- 80) Frey, M. - Vivarelli, M. (1991), New Technology and Employment in Italian Telecommunications, **Technovation***, 11, 303-314.
- 81) Vivarelli, M. (1991), The Birth of New Enterprises, **Small Business Economics***, 3, 215-223.

Chapters in edited books

- 82) Vivarelli, M. (2020), Globalization, Structural Change and Technological Progress in Emerging Economies: The Impact on Employment and Skills, in: Foster-McGregor, N. - Alcorta, L. - Szirmai, A. - Verspagen, B. (eds.), **New Perspectives on Structural Change: Causes and Consequences of Structural Change in the Global Economy**, Oxford University Press, Chapter 25, forthcoming.
- 83) 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.
- 84) 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.
- 85) 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.
- 86) 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.
- 87) 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.
- 88) 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.
- 89) 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.

- 90) 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.
- 91) Vivarelli, M. (2007), Innovation and Employment, in Hanusch, H. - Pyka, A. (eds.), **Elgar Companion to Neo-Schumpeterian Economics**, Elgar, Cheltenham, 719-732.
- 92) 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.
- 93) 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.
- 94) Lee, E. - Vivarelli, M. (2004), Introduction, in Lee, E. - Vivarelli, M. (eds.), **Understanding Globalization, Employment and Poverty Reduction**, Palgrave Macmillan, New York, 3-12.
- 95) 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.
- 96) Lee, E. - Vivarelli, M. (2004), Conclusion, in Lee, E. - Vivarelli, M. (eds.), **Understanding Globalization, Employment and Poverty Reduction**, Palgrave Macmillan, New York, 375-380.
- 97) 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.
- 98) 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.
- 99) 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.
- 100) 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.
- 101) 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.

- 102) 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.
- 103) 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.
- 104) 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.
- 105) 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.
- 106) 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

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

Books (ed.)

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

Articles in refereed Italian journals

- 109) 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.
- 110) 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.
- 111) Vivarelli, M. - Piga, C. - Piva, M. (2004), Il triangolo competitivo: innovazione, organizzazione e lavoro qualificato, **L'Industria**, 25, 655-674.
- 112) Santarelli, E. - Vivarelli, M. (2004), Cambiamento organizzativo, innovazione tecnologica e formazione: le nuove sfide per il futuro, **L'Industria**, 25, 173-176.

- 113) 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.
- 114) Arrighetti, A. - Vivarelli, M. (1999), Motivazioni economiche e componenti evolutive nella formazione di *spin-off*, **Rivista di Politica Economica**, 89, n.10, 39-73.
- 115) 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.
- 116) Vivarelli, M. - Montobbio, F. (1996), Le determinanti della formazione del salario reale nel secondo dopoguerra, **Economia & Lavoro**, 30 (3), 3-14.
- 117) 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.
- 118) 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.
- 119) Vivarelli, M. (1991), Natalità e mortalità delle piccole imprese: un modello interpretativo, **L'Industria**, 12(3), 467-481.
- 120) Vivarelli, M. (1991), I meccanismi compensativi della disoccupazione tecnologica. Il dibattito classico e i modelli recenti, **Economia Politica***, 8(3), 517-557.
- 121) Frey, M. – Vivarelli, M. (1991), Tecnologia e occupazione nelle telecomunicazioni. Un'analisi comparata: Italia-Regno Unito, **Rivista Internazionale di Scienze Sociali**, 99, 449-467.
- 122) Rangone, M. - Vivarelli, M. (1990), Technological change and fall in wages: a critical note, **Economia & Lavoro**, 24(4), 13-26.
- 123) Marengo, L. - Vivarelli, M. (1990), Una riflessione sulla teoria evoluzionista: microfondazioni e aggregazione macroeconomica, **Economia e Politica Industriale**, 67, 189-203.
- 124) 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.
- 125) Vivarelli, M. (1989), Economia e storia: l'esempio della disoccupazione tecnologica, **Annali di Storia dell'Impresa**, 5/6, 395-407.
- 126) 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

- 127) 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.
- 128) 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.
- 129) 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.
- 130) 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.
- 131) 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.
- 132) Vivarelli, M. - Gatti, D. (2000), Tecnologia e occupazione, in Malerba, F. (ed.), **Economia dell'innovazione**, Carocci, Roma, 495-517.