

Matteo Richiardi – Scientific Curriculum – January 2024

Personal web page: <https://sites.google.com/site/matteorichiardi>

Address: Institute for Social and Economic Research, University of Essex, Wivenhoe Park, Colchester CO4 3SQ, UK

Email: matteo.richiardi@essex.ac.uk. Mobile: +44 7553 790356

Research fields: Labour economics, Social Policy, Health economics, Computational economics.

Qualifications: Ph.D. in Economics, University of Torino (2004), M.Sc. in Economics (with distinction), UCL (2000). B.Sc. in Economics (with distinction), University of Torino (1998).

Current positions

- Professor of Economics, Institute for Social and Economic Research, University of Essex (since 2018)
- Director, Centre for Microsimulation and Policy Analysis, University of Essex (since 2020)
- Honorary Adjunct Professor, NUI Galway (since 2020)
- Editor in Chief, *International Journal of Microsimulation* (since 2015)
- Affiliate, Institute for New Economic Thinking, Oxford (since 2018)
- Board member, International Microsimulation Association (since 2015)

Past positions

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| 2018 - 2020 | EUROMOD Director, University of Essex |
| 2010 - 2020 | Affiliate, Collegio Carlo Alberto, Torino. |
| 2014 - 2020 | Associate Member, Nuffield College, Oxford. |
| 2016 - 2018 | Senior Research Officer, Department of Social policy and Intervention, University of Oxford. |
| 2014 - 2016 | Marie Curie Fellow, Mathematical Institute, University of Oxford. |
| 2010 - 2014 | Assistant Professor (from 2012: qualified to Full Professor), University of Torino, Department of Economics and Statistics. |
| 2006 - 2009 | Assistant Professor, Università Politecnica delle Marche, Department of Economics. |
| 2004 - 2006 | Lecturer in Computational Economics, University of Torino. |
| 2004 - 2006 | Fellow of the Lagrange Interdisciplinary Laboratory for Excellence in Complexity, ISI Foundation, Torino. |
| 2004 - 2006 | Member of the National Council, Amici della Terra Italia, country representative of Friends of the Earth International, an environmental group. |
| 2003 - 2006 | Vicepresident, Associazione Amici della Terra Club Scienza e Professioni, affiliated to Friends of the Earth Italy. |
| 2001 - 2003 | Lecturer in Economics of the European Union, Polytechnic of Torino. |
| 1996 - 2003 | Partner and Senior Economist at STEP s.a.s. – studi di economia applicata, an economic consultancy (Torino, Italy). |

Selected Grants

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| 2023 - 2027 | Essex PI, “Sustainable Welfare: Rethinking the roles of Family, Market and State (SUSTAINWELL)” EC Horizon Europe, £317,855. ^(*) |
| 2023 - 2025 | Essex PI, “Geographical modelling of the Health Effects of Universal Credit”, NIHR, £113,643. ^(*) |
| 2023 – 2024 | PI, “UKMOD: Fostering an inclusive and informed public debate of UK fiscal policies”, abrd Financial Fairness Trust, £ 176,606. |
| 2022 - 2025 | Co-I, “Long-Term Modelling Tools for Adolescent Mental Health and Wellbeing Research”, MRC, £133,524. ^(*) |
| 2022 - 2023 | Essex PI, “Study on ‘Poverty and Income Inequality in the Context of the Digital Transformation”, DG-EMPL, £181,198. ^(*) |
| 2021 - 2022 | PI, “Chronic pain, mental health and employment: The role of firms, workers and the state”, Population Health Agent-based Simulation nEtnetwork (PHASE), £24,999. |
| 2021 - 2022 | PI, “Research collaboration and partnership between Italian Institute for the Evaluation of Public Policies (INAPP) and ISER”, INAPP, £165,668. |
| 2021 - 2026 | Essex PI, “Evaluation of the health impacts of Universal Credit: A mixed methods study”, NIHR, £276,344. ^(*) |

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| 2021 - 2025 | Essex PI, "Health Equity of Economic Determinants (HEED): A Pan-European Microsimulation model for Health impacts of Income and Social Security Policies", ERC Starting Grant (PI: Prof Vittal Katikireddi, Glasgow), £96,174. ^(*) |
| 2021 - 2024 | Essex PI, "Caring Over the Lifecycle: the Roles of Families and Welfare States Today and Into the Future", ESRC - JPI More Years Better Lives, Equality and Wellbeing across Generations, £311,743. ^(*) |
| 2021 - 2022 | Essex PI, "Understanding the impacts of income and welfare policy responses to COVID-19 on inequalities in mental health: A microsimulation model", Health Foundation, £55,942. ^(*) |
| 2020 - 2021 | Essex PI, "Analysis of the distributional effects of Covid-19 and state-led remedial measures in developing countries", UNU-Wider, £153,771. ^(*) |
| 2020 - 2021 | PI, "Research into Covid-19 and financial hardship in London", Greater London Authority, £22,604. |
| 2019 - 2021 | Principal Investigator, "Investigating Economic Insecurity: A Microsimulation approach", INAPP, £310,000. |
| 2018 - 2021 | PI (from 2021), "Opening the Black Box: towards a transparent and widely-used tax-benefit model for the UK (UKMOD)", Nuffield Foundation, £303,165. |
| 2020 | PI, "EUROMOD Update", European Commission, E.1,094,966. |
| 2020 | COVID-19: Distributional and budgetary consequences in the UK, INET Oxford, £15,000. |
| 2017 - 2021 | Essex PI, "InGRID-2", European Commission H2020, E.903,176. |
| 2019 - 2020 | PI, "EUROMOD Update", European Commission, E.1,542,000. |
| 2018 - 2019 | Principal Investigator, "EUROMOD Update", European Commission, E.1,850,000. |
| 2017 | Co-PI, "Labour market participation in a comparative perspective. UK vs. US 1996-2017", Arrowgrass Capital Management Ltd, £120,000. |
| 2016 - 2017 | PI, "A dynamic microsimulation model for ex-ante policy evaluation", Italian National Institute for the Analysis of Public Policies (INAPP), E.65,000. |
| 2015 - 2017 | Co-PI, "Skill Mismatch", University of Torino, E.100,000. |
| 2015 | PI, "The gender employment gap: Challenges and solutions. Lot 3: Anticipating the future trend of female labour market participation and its impact on economic growth", Eurofound, E.40,050. |
| 2014 - 2016 | PI, Marie Curie Intra-European Fellowship. Budget: E.309,000. |

^(*) Directly managed budget only.

PI – Principal Investigator; Essex PI – Coordinator of University of Essex unit; Co-I – Co-Investigator

Advisory activity

2014 World Bank consultant on labor market policies, Liberia, West Africa.

Research highlights: Author of more than 35 journal papers, 5 books, 10 chapters; h-index = 12 (Publish or Perish, source Cross-ref).

Supervision of graduate students and postdoctoral fellows

- Currently line managing 5 member of staff, University of Essex. Previously (2018-2020) line-managed other 10 members of staff.
- Currently supervising 2 PhD students: Melchior Vella, University of Essex 2018-; Alex Antony, University of Essex 2023-.
- Past Ph.D. supervisions: Jakob Grazzini, University of Torino 2010-2012; Susanna Calimani, University of Torino 2013-2015; Paulina Marra, University of Torino 2014-2017.
- Past M.Sc. supervisions: Hugo Lhullier, Science Po Paris, 2016; Alexander Tromp, University of Oxford, 2017-2018.

Teaching

Since 2014 I have no teaching duties. However, I give ad-hoc training and advanced training courses in agent based and microsimulation modelling, including EUROMOD and UKMOD training courses at the University of Essex.¹ In 2024 I am teaching a course on Complexity Economics at the University of Turin. In the past I have taught courses in Statistics, Economic Statistics, Macroeconomics, Computational Economics, Economic Policy and Regional Economic Integration at the University of Turin, Polytechnic University of Marche, and Turin Polytechnic.

¹ See <https://sites.google.com/site/matteorichiardi/teaching> and <https://www.microsimulation.ac.uk/about/training>.

Complete list of publications (J-journals, B-books, C-chapter, R-reports, W-working papers S-submitted)**i) Social protection, socio-economic and health inequality**

1. (J) Richiardi M, Valenzuela L (2024). Firm Heterogeneity and the Aggregate Labour Share. *Labour*, forthcoming
2. (C) Richiardi M, Morgan G, Torry M (2023). Analysis of financial effects of Basic Income. In: Torry M (ed.). *The Palgrave International Handbook of Basic Income*, 2nd edition, ch. 13. Palgrave Macmillan.
3. (J) Boccia D, Maritano S, Pizzi C, Richiardi M, Richiardi L (2023). The impact of income-support interventions on life course risk factors and health outcomes during childhood: a systematic review in high income countries. *BMC Public Health*, vol. 23, art. 744.
4. (J) Broadbent P, Thomson R, Kopasker D, McCartney G, Meier P, Richiardi M, McKee M, Katikireddi SV (2023). The public health implications of the cost-of-living crisis: outlining mechanisms and modelling consequences. *The Lancet Regional Health*, vol. 27, art. 100585.
5. (J) Katikireddi SV, Kopasker D, Pearce A, Leyland AH, Rostila M, Richiardi MG (2022). Health Equity and Its Economic Determinants (HEED): Protocol for a pan-European microsimulation model for health impacts of income and social security policies. *BMJ Open*, 12(7): 12:e062405.
6. (J) Craig P, Barr B, Baxter AJ, Brown H, Cheetham M, Gibson M, Katikireddi SV, Moffatt S, Morris S, Munford LA, Richiardi M, Sutton M, Taylor-Robinson D, Wickham S, Xiang H, Bambra C (2022). Evaluation of the mental health impacts of Universal Credit: protocol for a mixed methods study. *BMJ Open*, 12(4): 12:e061340.
7. (W) Richiardi M (2022). A Basic Income for France: Ideas for a debate. CeMPA Working Paper 6/22.
8. (W) Richiardi M, Bronka P (2022). LABSim: a dynamic life course model of individual life course trajectories for Italy. CemPA Working Paper 5/22.
9. (W) Collado D, Popova D, Richiardi M (2021). Covid-19 and financial hardship in London. CeMPA Working Paper 9/21.
10. (S) Lastunen J, Rattenhuber P, Adu-Ababio K, Gasior K, Jara HX, Jouste M, McLennan D, Nichelatti E, Oliveira RC, Pirttilä J, Richiardi M, Wright G (2021). The mitigating role of tax and benefit rescue packages for poverty and inequality in Africa amid the COVID-19 pandemic. WIDER Working Paper 2021/148
11. (J) Rasella D, Richiardi L, Brachowicz N, Jara HJ, Hanson M, Boccia D, Richiardi M, Pizzi C (2021). Developing an Integrated Microsimulation Model for the Impact of Fiscal Policies on Child Health in Europe: The Example of Childhood Obesity in Italy. *BMC Med* vol. 19, art. 310.
12. (W) Richiardi M, He Z (2020). Measuring economic insecurity: A review of the literature. CeMPA Working Paper 1/20.
13. (W) Richiardi M, He Z (2020). Measuring economic insecurity: A microsimulation approach. CeMPA Working Paper 2/20.
14. (J) Pizzi C, Richiardi M et al. (2020). Measuring Child Socio-Economic Position in Birth Cohort Research: The Development of a Novel Standardized Household Income Indicator. *Int. J. of Environmental Research and Public Health*, vol. 17, no. 5, pp. 1700-1717.
15. (J) Richiardi M, Nolan B, Kenworthy L (2020). What happened to the 'Great American Jobs Machine'?. *International Journal of Microsimulation*, vol. 13, no. 1, pp. 19-51.
16. (J) Bronka P, Collado D, Richiardi M (2020). The Covid-19 crisis response helps the poor: The distributional and budgetary consequences of the UK lockdown. *Covid Economics* no. 26, pp. 79-106.
17. (J) Nolan B, Richiardi M, Valenzuela L (2019). The Drivers of Income Inequality in Rich Countries. *Journal of Economic Surveys*, vol. 33, no. 4, pp. 1285-1324.
18. (J) Richardson R, Pacelli L, Richiardi M (2019). Understanding low female labour force participation: Policy evaluation using microsimulation. *International Journal of Microsimulation*, vol. 12, no. 2, pp. 50-66.
19. (J) Berton F, Mocetti S, Presbitero A, Richiardi M. (2018) Banks, firms, and jobs. *Review of Financial Studies*, vol. 36, no. 1, pp. 2113-2156.
20. (J) Richardson R, Pacelli L, Poggi A, Richiardi M (2018). Female labour force projections using microsimulation for six EU countries. *International Journal of Microsimulation*, vol. 11, no. 2, pp. 5-51.

21. (C) Richiardi M, Richardson R. (2016). Agent-based Computational Demography and Beyond using JAS-mine. In: Grow A, van Bavel J. *Agent-Based Modeling in Population Studies*. Springer Series on Demographic Methods and Population Analysis.
22. (C) Neugart M, Richiardi M (2018). Agent-based models of the labor market. LABORatorio Revelli WP 125/2012. In: Chen S.-H, Kaboudan M, Du Y-R (eds.). *Handbook on Computational Economics and Finance*, Oxford University Press, Oxford.
23. (C) Berton F, Richiardi M, Sacchi S (2015). Non-standard work, low-paid work and employment dynamics in Italy: evidence from an occupational perspective. In: Eichhorst W, Marx P. (eds). *Non-Standard Employment in Post-Industrial Labour Markets*. Edward Elgar, Cheltenham, UK and Northampton, MA, USA.
24. (J) Presbitero A, Richiardi M, Amighini A (2015). Is labor flexibility a substitute to offshoring? Evidence from Italian manufacturing. *International Economics*, vol. 142, pp. 81-93.
25. (W) Richiardi M (2015). Liberia. Expanding formal employment through labour market reforms. LABORatorio Revelli WP 144/2015.
26. (J) Richiardi M, Poggi A (2014). Imputing Individual Effects in Dynamic Microsimulation Models. An application to household formation and labor market participation in Italy. *International Journal of Microsimulation*, 7(2), pp. 3-39.
27. (B) Berton F, Richiardi M, Sacchi S (2012). *The political economy of work security and flexibility: Italy in comparative perspective*. Policy Press, Bristol.
28. (J) Contini D, Richiardi M (2012). Reconsidering the effect of welfare stigma on unemployment. *Journal of Economic Behavior and Organization*, vol. 84, no. pp. 229-244.
29. (J) Berton F, Richiardi M, Sacchi S (2011). Una misura monetaria della precarietà dei lavoratori italiani. (A monetary measure of the precarity of Italian workers.) *Italian Economic Journal*, vol. XVI, no.1, pp. 149-172.
30. (J) Leombruni R, Richiardi M, Demaria M, Costa G (2010). Aspettative di vita, lavori usuranti e equità del sistema previdenziale. Prime evidenze dal Work Histories Italian Panel. (Life expectancy, hazardous work and fairness of the pension system. Evidence from the WHIP employer-employee linked dataset.) *Epidemiologia e Prevenzione*, vol. 34, no. 4, pp. 150-158
31. (C) Presbitero A, Amighini A, Richiardi M (2010). Delocalizzazione produttiva e mix occupazionale. (Offshoring and occupational mix.) In: Zazzaro A (ed.). *Reti d'impresa e territorio*. Il Mulino, Bologna.
32. (B) Berton F, Richiardi M, Sacchi S (2009). *Flex-insecurity. Perché in Italia la flessibilità diventa precarietà*. (Flex-insecurity: Why in Italy flexibility becomes precarity.) Il Mulino, Studi e Ricerche, Bologna.
33. (J) Berton F, Richiardi M, Sacchi S (2009). Flessibilità del lavoro e precarietà dei lavoratori in Italia: analisi empiriche e proposte di policy. (Labour flexibility and workers' precarity: An empirical analysis and some policy proposals.) *Rivista Italiana di Politiche Pubbliche*, vol. 1, pp. 33-70.
34. (C) Berton F, Richiardi M, Sacchi S (2009). L'indennità di terminazione: una proposta pratica contro la precarietà. (Dismissal allowance: A proposal to fight precarity.) In: Dell'Aringa C, Treu T (eds.). *Le riforme che mancano*. Il Mulino, AREL, Bologna.
35. (J) Richiardi M, Contini D (2008). Active and Passive Policies Against Poverty with Decreasing Employability. *Italian Economic Journal*, vol. XIII, no. 2, pp. 245-272.
36. (J) Leombruni R, Richiardi M (2006). LABORSim: An Agent-Based Microsimulation of Labour Supply. An application to Italy. *Computational Economics*, vol. 27, no. 1, pp. 63-88.
37. (J) Richiardi M (2006). Toward a Non-Equilibrium Unemployment Theory. *Computational Economics*, vol. 27, no. 1, pp. 135-160.
38. (J) Richiardi M (2004). A Search Model of Unemployment and Firm Dynamics. *Advances in Complex Systems*, vol. 7, no. 2, pp. 203-221.
39. (J) Richiardi M (2004). Generalizing Gibrat. Reasonable Stochastic Multiplicative Models of Firm Dynamics. *Journal of Artificial Societies and Social Simulation*, vol. 7, no. 1.
40. (C) Richiardi M, Fazio L (2004). UrbanSim: Microsimulazione urbana a Torino. (UrbanSim: Urban microsimulation for Turin.) In: Russo G, Terna P (eds.). *I numeri per Torino*. Otto Editore, Torino.

ii) Methodological and econometric work on agent-based and microsimulation models

1. (J) van de Ven J, Bronka P, Richiardi M (2024). Dynamic simulation of taxes and welfare benefits by database imputation. *International Journal of Microsimulation*, forthcoming.
2. (J) Kopasker D, Katikireddi SV, Santos JV, Richiardi M, Bronka P, Rostila M, Cecchini M, Ali S, Emmert-Fees K, Bamba C, Hoven H, Backhaus I, Balaj M, Eikemo TA. (2023) Microsimulation as a flexible tool to evaluate policies and their impact on socioeconomic inequalities in health. *The Lancet Regional Health - Europe*, vol. 34, art. 100758.
3. (W) Bronka P, van de Ven J, Kopasker D, Katikireddi SV, Richiardi M (2023). SimPaths: an open-source microsimulation model for life course analysis. CeMPA Working Paper 6/23.
4. (J) Richiardi M, Collado D, Popova D (2021). UKMOD – A new tax-benefit model for the four nations of the UK. *International Journal of Microsimulation*, vol. 14, no. 1, pp. 92-101. <https://doi.org/10.34196/IJM.00231>.
5. (J) Richiardi M (2018). The Code and the Model. A response to “The Code is the Model”, by Luzius Meisser. *International Journal of Microsimulation*, vol. 10, no. 3, pp. 204-208.
6. (B) Delli Gatti D, Gallegati M., Fagiolo G, Richiardi M, Russo A (2018). *Agent-based Computational Economics: A Toolkit*. Cambridge University Press.
7. (J) Richiardi M (2017). The future of Agent-Based Modelling. *Eastern Economic Journal*, 43(2): 271–287.
8. (J) Grazzini J, Richiardi M, Tsionas M (2017). Bayesian Estimation of Agent-Based Models. *Journal of Economic Dynamics and Control*, 77:26-47.
9. (J) Richiardi M, Richardson R (2017). JAS-mine: A new platform for microsimulation and agent-based modelling. *International Journal of Microsimulation*, 10(1): 106-134.
10. (J) Grazzini J, Richiardi M (2015). Estimation of Ergodic Agent-Based Models by Simulated Minimum Distance. *Journal of Economic Dynamics and Control*, 51, pp. 148-165.
11. (W) Richardson R, Richiardi M, Wolfson M (2015). We ran one billion agents. Scaling in simulation models. Nuffield College Economic Papers 2015-W05.
12. (C) Richiardi M (2014). The missing link: AB models and dynamic microsimulation. In: Leitner S, Wall, F (eds). *Artificial Economics and Self Organization. Agent-Based Approaches to Economics and Social Systems*. Springer, Lecture Notes in Economics and Mathematical Systems, vol. 669, Berlin.
13. (J) Grazzini J, Richiardi M, Sella L (2013). Indirect estimation of agent-based models. An application to a simple diffusion model. *Complexity economics*, vol. 2, pp. 25-40.
14. (J) Richiardi M (2012). Agent-based Computational Economics. A Short Introduction. *The Knowledge Engineering Review*, vol. 27, no. 2, pp. 137-149.
15. (C) Grazzini J, Richiardi M, Sella L (2012). Small sample bias in MSM estimation of agent-based models. In: Teglio A, Alfarano S, Camacho-Cuena E, Ginés-Vilar M (eds). *Managing Market Complexity. The Approach of Artificial Economics*. Springer, Lecture Notes in Economics and Mathematical Systems, vol. 662, Berlin.
16. (C) Gallegati M, Richiardi M (2009). Agent-based Modelling in Economics and Complexity. In: Meyer B (ed.). *Encyclopedia of Complexity and System Science*, Springer, New York, pp. 200-224.
17. (J) Contini B, Leombruni R, Richiardi M (2007). Exploring a new ExpAce: The Complementarities Between Experimental Economics and Agent-based Computational Economics. *Journal of Social Complexity*, vol. 3, no. 1, pp. 13-22
18. (J) Leombruni R, Richiardi M, Saam NJ, Sonnessa M (2006). A Common Protocol for Agent-Based Social Simulation. *Journal of Artificial Societies and Social Simulations*, vol. 9, n.1.
19. (C) Leombruni R, Richiardi M (2006). Una risposta alle critiche: le metodologie per la definizione dei modelli di simulazione. (The methodology of agent-based models: A response to the critiques.) In: Terna et al. (eds.). *Modelli per la complessità - La simulazione ad agenti in economia*. Il Mulino, Bologna.
20. (J) Richiardi M, Leombruni R (2005). Why Are Economists Sceptical About Agent-Based Simulations? *Physica A*, vol.355, no. 1, pp. 103-109.

21. (B) Leombruni R, Richiardi M (eds.) (2004). *Industry and Labor Dynamics. The Agent-Based Computational Economics Approach*. World Scientific, Singapore.

iii) Miscellaneous

1. (J) Lastunen J, Richiardi M (2023). Forecasting recovery from Covid-19 using financial data: An application to Vietnam. *World Development Perspectives*, vol. 30.
2. (J) Campaniello N, Richiardi M (2017). The role of museums in bilateral tourist flows: Evidence from Italy. *Oxford Economic Papers*, vol. 70, no. 3, pp. 658-679.
3. (W) Farmer JD, Geanakoplos J, Masoliver J, Montero M, Perello' J, Richiardi M (2017). Discounting the distant future: What do historical bond prices imply about the long term discount rate? LABORatorio Revelli WP 156/2017.
4. (W) Richiardi M (2014). Forecasting with unobserved heterogeneity. LABORatorio Revelli WP 123/2012.
5. (J) Neugart M, Richiardi M (2013). Sequential Teamwork in Competitive Environments: Theory and Evidence from Swimming Data. *European Economic Review*, vol. 63, pp. 186-205.
6. (J) Richiardi M (2009). Should (and Could) We Ban Prescriptions? *The B.E. Journal of Economic Analysis & Policy. Topics*, vol. 9, n.1, art. 1.
7. (J) Gallegati M, Greenwald B, Richiardi M, Stiglitz J (2008). The Asymmetric Effect of Diffusion Processes: Risk Sharing and Contagion. *The Global Economy Journal*, vol. 8, no. 3, art. 2.
8. (J) Richiardi M (2006). Jesus vs. Hillel. From Moral to Social Norms and Back. *European Journal of Economic and Social Systems*, vol. 19, no. 2, pp.171-190
9. (J) Richiardi M (2005). On the Virtues of the Shame Lane. *The B.E. Journal of Economic Analysis & Policy. Topics*, vol. 5, no. 1, Article 1.