

Alessia Melegaro

PERSONAL INFORMATION

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Date of birth: [REDACTED]

Nationality: Italian

URL for web site:

<http://didattica.unibocconi.eu/docenti/cv.php?rif=92665&cognome=MELEGARO&nome=ALESSIA>

CURRENT POSITION(S)

- 2017 – **Associate Professor**, Department of Social and Political Science, Bocconi University, Milan, Italy
National Scientific Qualification as Associate Professor in Demography (2012) and Public Health (2013)
- 2012 – **Associate Fellow**, Dondena Centre for Research in Population Dynamics and Public Policies, Bocconi University, Milan, Italy

PREVIOUS POSITIONS

- 2012 – 2017 **Assistant Professor**, Department of Social and Political Science, Bocconi University, Milan, Italy
- 2008 - 2012 **Research Fellow**, Dondena Centre for Research in Social Dynamics and Public Policy, Bocconi University, Milan, Italy
- 2004 – 2008 **Research Scientist** - Statistics, Modelling and Economics Department, Health Protection Agency (now Public Health England), Centre for Infections, London, UK.

EDUCATION

- 2005 **PhD in Biological Sciences**
Ecology and Epidemiology Group, Department of Biological Sciences, Warwick University, United Kingdom
Supervisors: Prof. Graham Medley, Prof. John Edmunds (London School of Hygiene and Tropical Medicine, London, UK)
Date of PhD Award: 11 July 2005
- 2000 **Research Degree Student** (awarded an MRC fellowship), London School of Hygiene and Tropical Medicine, London, UK
- 1998 **BA (with distinction) in Economics**, Department of Decision Sciences, Bocconi University, Milan, Italy

INSTITUTIONAL RESPONSIBILITIES

- 2020- **Director Covid Crisis Lab**, Bocconi University
- 2020 – **Director, Master in Data Science and Business Analytics**, Bocconi University, Milan, Italy
- 2012 – **Faculty member**, Bocconi University, Milan, Italy
- 2011 – Member of the **Management Board, Dondena Centre** for Research on Social Dynamics and Public Policy, Bocconi University, Milan, Italy
- 2014 – Member of the **Faculty Council for the PhD** in Social and Political Science, Bocconi University
- 2012 – Sitting on several **internal Bocconi Committees** and Working Groups, among which: Hiring Committees (Research Assistants, Post-docs, Assistant Professors), Teaching Committees, Web and Students Support Committee, Equal Opportunities Committee, Working Group for the design of the new MSc Degree in Data Science and Business Analytics.

AWARDED GRANTS

PI: European Research Council Consolidator Grant (2021-2028) – Modelling human behavior in infectious disease spread (IMMUNE). Euros: 2M

PI: European Research Council Starting Grant (2012-2017) - The impact of DEMographic Changes on Infectious DisEase transmission and control in middle/low income countries (DECIDE). Euros: 1.21M.

Co-PI: Cariplo Foundation (2017-2018) – Immigrants' social network and the transmission of health-related behaviours and outcomes (NetHealth). Euros: 80K.

WP Leader: Autonomous Province of Trento, Bando Grandi Progetti (2013-2017) – Laboratory of Excellence for Epidemiology and Modelling (LExEM). Facing the introduction and spread of Invasive Alien Species (IAS). Euros: 1.16M.

PI: World Health Organisation - Open call (2008-2010). Optimization of vaccination schedules in low and middle-income countries. Euros: 150K.

WP Leader: European Communicable Disease Centre (2009-2012): Vaccine preventable disease modelling in the European Union and EEA/EFTA - Forecasting the effects of introducing a new vaccine in a national and regional program. Euros 265K.

Researcher: European Union FP7 (2008-2011). Modelling the spread of pandemic influenza and strategies for its containment and mitigation (FLUMODCONT). Euros: 2.8M.

Researcher: European Union FP6 (2004-2008). Improving Public Health Policy in Europe through Modelling and Economic Evaluation of Interventions for the Control of Infectious Diseases (POLYMOD). Euros: 1.6M.

Researcher: European Union FP5 (2000-2003). Pneumococcal disease in Europe (PNC-EURO). Euros: 2.1M

TEACHING ACTIVITIES

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| 2015 – 2020 | Course Director – Agent Based Modelling and Simulation, Bocconi University, PhD School |
| 2019 - 2021 | Course Director - Modelling and Simulations, Bocconi University, Graduate School |
| 2013 – 2021 | Professor – Applications for Management, Bocconi University, Undergraduate School |
| 2012 - 2021 | Professor – Decision Analysis in Healthcare, MIHMEP, Bocconi University, SDA School |
| 2012 - 2013 | Professor – Public Economics, Bocconi University, Undergraduate School |
| 2010 - 2014 | Lecturer in International Demography, Bocconi University, Graduate School |
| 2005 - 2007 | Lecturer – Epidemiological Methods and Mathematical Modelling, London School of Hygiene and Tropical Medicine, MSc Course and Summer School |
| 2004 - 2005 | Lecturer – Mathematical Modelling, Birmingham University, MSc Course |

RESEARCH INTERESTS

My interests are in applying quantitative methods for the evaluation of the effectiveness and cost-effectiveness of public health policies in both developed and developing countries. This entails a mixture of mathematical modelling, statistical and economic analysis. The emphasis is placed, in particular, on studying infectious disease transmission with the aim of enabling decision-makers to optimize the design of public-health interventions. I am currently particularly interested in studying the consequences of long-term demographic processes on social structures and individuals' interactions to better understand the epidemiology of infections.

PUBLICATIONS IN OPEN REPOSITORIES (NOT YET PEER-REVIEWED)

- Trentini, F., Marziano, V., Guzzetta, G., Tirani, M., Cereda, D., Poletti, P., ... Melegaro, A., Merler, S. (2020). Healthcare strain and intensive care during the COVID-19 outbreak in the Lombardy region: a retrospective observational study on 43,538 hospitalized patients. *medRxiv*,
- Cereda, D., Tirani, M., Rovida, F., Demicheli, V., Ajelli, M., Poletti, P., ... Melegaro, A., Merler, S. (2020). The early phase of the COVID-19 outbreak in Lombardy, Italy. *arXiv preprint arXiv:2003.09320*.
- Del Fava, E., Adema, I., Kiti, M. C., Poletti, P., Merler, S., Nokes, D. J., ... & Melegaro, A. (2021). Individual's daily behaviour and intergenerational mixing in different social contexts of Kenya. *medRxiv*.
- Cucciniello, M., Pin, P., Imre, B., Porumbescu, G., & Melegaro, A. (2020). Altruism and vaccination intentions: Evidence from behavioral experiments. *medRxiv*.
- Porumbescu, G., Cucciniello, M., Pin, P., & Melegaro, A. (2020). Building comprehension to enhance vaccination intentions: Evidence from the United States and Italy. *medRxiv*.
- Kiti, M. C., Aguolu, O. G., Liu, C., Restrepo, A. M., Regina, R., Willebrand, K., ... Melegaro, A., & Omer, S. B. (2020). Social contact patterns among employees in 3 US companies during early phases of the COVID-19 pandemic, April to June 2020. *medRxiv*.
- Rotesi, T., Pin, P., Melegaro, A., Cucciniello, M., Omer, S. B., Huber, G. A., ... & Willebrand, K. (2021). National interest may require distributing COVID-19 vaccines to other countries. *medRxiv*.

PEER-REVIEWED PUBLICATIONS

(*Google Scholar: 3600 citations HI-index: 32. Last updated 15th March 2021*)

- Poletti, P., Tirani, M., Cereda, D., Trentini, F., Guzzetta, G., Marziano, V., ... Melegaro, A., Merler, S. (2020). Age-specific SARS-CoV-2 infection fatality ratio and associated risk factors, Italy, February to April 2020. *Eurosurveillance*, 25(31), 2001383.
- Poletti, P., Tirani, M., Cereda, D., Trentini, F., Guzzetta, G., Sabatino, G., Melegaro, A., ... & Force, T. (2021). Association of Age With Likelihood of Developing Symptoms and Critical Disease Among Close Contacts Exposed to Patients With Confirmed SARS-CoV-2 Infection in Italy. *JAMA Network Open*, 4(3), e211085-e211085.
- Lazarus, J. V., Ratzan, S., Palayew, A., Billari, F. C., Binagwaho, A., Kimball, S., Melegaro, A., ... & El-Mohandes, A. (2020). COVID-SCORE: A global survey to assess public perceptions of government responses to COVID-19 (COVID-SCORE-10). *PloS one*, 15(10), e0240011.
- Guzzetta, Giorgio, et al. "Potential short-term outcome of an uncontrolled COVID-19 epidemic in Lombardy, Italy, February to March 2020." *Eurosurveillance* 25.12 (2020): 2000293.
- Trentini, F., Poletti, P., Melegaro, A., & Merler, S. (2019). The introduction of 'No jab, No school' policy and the refinement of measles immunisation strategies in high-income countries. *BMC medicine*, 17(1), 1-8.
- T Hoang, P Coletti, A Melegaro, J Wallinga, CG Grijalva, JW Edmunds. A systematic review of social contact surveys to inform transmission models of close-contact infections. *Epidemiology* 30 (5), 723-736, 2019

- A Melegaro. Measles vaccination: no time to rest. *The Lancet Global Health* 7 (3), e282-e283, 2019
- F Trentini, P Poletti, F Baldacchino, A Drago, F Montarsi, G Capelli, A Melegaro. The containment of potential outbreaks triggered by imported Chikungunya cases in Italy: a cost utility epidemiological assessment of vector control measures. *Scientific Reports* 8 (1), 9034, 2018
- V Toffolutti, M McKee, A Melegaro, W Ricciardi. Austerity, measles and mandatory vaccination: cross-regional analysis of vaccination in Italy 2000–14. *European Journal of Public Health*, 2018
- A Melegaro, V Marziano, E Del Fava, P Poletti, M Tirani. The impact of demographic changes, exogenous boosting and new vaccination policies on varicella and herpes zoster in Italy: a modelling and cost-effectiveness study. *BMC Medicine*, 2018
- JR Williams, P Manfredi, A Melegaro. The potential impact of the demographic transition in the Senegal-Gambia region of sub-Saharan Africa on the burden of infectious disease and its potential synergies with control programmes: the case of hepatitis B. *BMC medicine*, 2018
- Trentini F, Poletti P, Merler M, Melegaro A. (2017) Measles immunity gaps and the progress towards elimination: a multi-country modeling analysis. *Lancet Infectious Disease*, Aug 11. pii: S1473-3099(17)30421-8. doi: 10.1016/S1473-3099(17)30421-8.
- Guzzetta G, Trentini F, Poletti P, Baldacchino F, Montarsi F, Capelli G, Rizzoli A.P., Rosà R, Merler S, Melegaro A. (2017) Effectiveness and economic assessment of routine larviciding for prevention of chikungunya and dengue in temperate urban settings in Europe. *PLoS Neglected Tropical Diseases*, 11 (9), e0005918
- Del Fava E, Ioriatti C, Melegaro A. (2017) Cost-benefit analysis of controlling the spotted wing drosophila spread and infestation of soft fruits in Trentino, Northern Italy. *Pest Management Science*, May 19. doi: 10.1002/ps.4618
- Melegaro A, Del Fava E, Poletti P, Merler S, Nyamukapa C, Williams J, Gregson S, Manfredi P. (2017) Social Contact Structures and Time Use Patterns in the Manicaland Province of Zimbabwe. *PLoS One*, Jan 18;12(1):e0170459. doi: 10.1371/journal.pone.0170459.
- Xiao X, van Hoek AJ, Kenward MG, Melegaro A, Jit M. (2016) Clustering of contacts relevant to the spread of infectious disease. *Epidemics*, Aug 26;17:1-9. doi: 10.1016/j.epidem.2016.08.001.
- Del Fava E, Piccarreta R, Gregson S, Melegaro A. (2016) Transition to Parenthood and HIV Infection in Rural Zimbabwe. *PLoS One*, Sep 29;11(9):e0163730. doi: 10.1371/journal.pone.0163730.
- Poletti P, Merler S, Manfredi P, Ajelli, Nokes J, Melegaro A. (2015) Evaluating vaccination strategies for reducing infant respiratory syncytial virus infection in low-income settings. *BMC Medicine*, Mar 10;13:49
- Tirani M, Mereaglia M, Melegaro A. (2015) Health and economic outcomes of introducing the new MenB vaccine (Bexsero®) into the Italian routine infant immunisation programme. *PLoS One*, Apr 13;10(4):e0123383
- González-Lorenzo M, Piatti, A, Coppola, L, Gramegna, M, Demicheli, V, Melegaro, A, & Moja, L. (2015) Conceptual frameworks and key dimensions to support coverage decisions for vaccines. *Vaccine*, Feb 25;33(9):1206-17.

- Santermans, E, Goeyvaerts, N, Melegaro, A, Edmunds, WJ, Faes, C, Aerts, M, & Hens, N. (2015) The social contact hypothesis under the assumption of endemic equilibrium: elucidating the transmission potential of VZV in Europe. *Epidemics*, Jun;11:14-23.
- Ajelli M, Poletti P, Melegaro A, Merler S. (2014) Estimating influenza transmission in different social contexts. *Scientific Reports*, 4, 7218 (doi:10.1038/srep07218).
- De Cao E., Zagheni E., Manfredi P., Melegaro A. (2014) The relative importance of frequency of contacts and time of exposure for the spread of directly transmitted infections. *Biostatistics*, Jul;15(3):470-83.
- De Cao E., Melegaro A, Klok R, Postma M. (2014) Optimising Assessments of the Epidemiological Impact in the Netherlands of Paediatric Immunisation With 13-valent Pneumococcal Conjugate Vaccine Using Dynamic Transmission Modelling, *PLoS One*, Apr 2;9(4):e89415.
- Compagni A., Melegaro A. Tarricone R. (2013) Genetic screening for the predisposition to venous thromboembolism: a cost-utility analysis of clinical practice in the Italian healthcare system. *Value in Health*, Sep-Oct; 16(6):909-21.
- Poletti P, Melegaro A, Ajelli M, Del Fava E, Guzzetta G, Faustini L, Scalia Tomba G, Lopalco P, Rizzo C, Merler S, Manfredi P. (2013) Perspectives on the impact of varicella immunization on herpes zoster. A model-based evaluation from three European countries. *PLoS One*, Apr 17;8(4): e60732.
- Meregaglia M, Ferrara L, Melegaro A, Demicheli V. (2013) Parent "cocoon" immunization to prevent pertussis-related hospitalization in infants: the case of Piemonte in Italy. *Vaccine*, Feb 6;31(8):1135-7.
- Van Hoek AJ, Melegaro A, Gay N, Bilcke J, Edmunds WJ. (2012) The cost-effectiveness of varicella and combined varicella and Herpes zoster vaccination programmes in the United Kingdom. *Vaccine*, Feb 1;30(6):1225-34.
- Choi YH, Jit M, Gay N, Andrews N, Waight PA, Melegaro A, George R, Miller E. (2011) 7-valent pneumococcal conjugate vaccination in England and Wales: is it still beneficial despite high levels of serotype replacement? *PLoS One*, 6(10):e26190. Epub 2011 Oct 14.
- Melegaro, A; Jit, M; Gay, N; Zagheni, E; Edmunds, WJ. (2011) What types of contacts are important for the spread of infections? Using contact survey data to explore European mixing patterns. *Epidemics*, 3, 143:151
- Chaiyakunapruk N, Somkruea R, Hutubessy R, Henao AM, Hombach J, Melegaro A, Edmunds JW, Beutels P. (2011) Cost effectiveness of paediatric pneumococcal conjugate vaccines: a comparative assessment of decision-making tools. *BMC Medicine*, May 12;9:53.
- van Hoek AJ, Melegaro A, Zagheni E, Edmunds WJ, Gay N. (2011) Modelling the impact of a combined varicella and zoster vaccination programme on the epidemiology of varicella zoster virus in England. *Vaccine*, Mar 16;29(13):2411-20.
- House T, Baguelin M, Van Hoek AJ, White PJ, Sadique Z, Eames K, Read JM, Hens N, Melegaro A, Edmunds WJ, Keeling MJ. (2011) Modelling the impact of local reactive school closures on critical care provision during an influenza pandemic. *Proceedings of the Royal Society of London B: Biological Sciences*, 278, 1719,2753-2760,2011,The Royal Society.

- Melegaro A, Choi YH, George R, Edmunds WJ, Miller E, Gay NJ. (2010) Dynamic models of pneumococcal carriage and the impact of the Heptavalent Pneumococcal Conjugate Vaccine on invasive pneumococcal disease. *BMC Infectious Diseases*, Apr 8;10:90.
- van Hoek A J; Gay N; Melegaro A; Opstelten W; Edmunds WJ. (2009) Estimating the cost-effectiveness of vaccination against herpes zoster in England and Wales. *Vaccine*, 27(9):1454-67.
- Zagheni E, Billari FC, Manfredi P, Melegaro A, Mossong J, Edmunds WJ. (2008) Using time-use data to parameterize models for the spread of close-contact infectious diseases. *American Journal of Epidemiology*, Nov 1;168(9):1082-90. Epub 2008 Sep 18.
- Melegaro A, Choi Y, Pebody R, Gay N. (2007) Pneumococcal carriage in United Kingdom families: estimating serotype-specific transmission parameters from longitudinal data. *American Journal of Epidemiology*, Jul 15;166(2):228-35.
- Pitman RJ, Melegaro A, Gelb D, Siddiqui MR, Gay NJ, Edmunds WJ. (2007) Assessing the burden of influenza and other respiratory infections in England and Wales. *Journal of Infections*, Jun;54(6):530-8. Epub 2006 Nov 9.
- Goldblatt D, Hussain M, Andrews N, Ashton L, Virta C, Melegaro A, Pebody R, George R, Soininen A, Edmunds J, Gay N, Kayhty H, Miller E. (2005) Antibody responses to nasopharyngeal carriage of *Streptococcus pneumoniae* in adults: a longitudinal household study. *Journal Infectious Diseases*, Aug 1;192(3):387-93. Epub 2005 Jun 23.
- Melegaro A, Edmunds WJ, Pebody R, Miller E, George R. (2006) The current burden of pneumococcal disease in England and Wales. *Journal of Infection*, Jan; 52(1):37-48.
- Hussain M, Melegaro A, Pebody RG, George R, Edmunds WJ, Talukdar R, Martin SA, Efstratiou A, Miller E. (2005) A longitudinal household study of *Streptococcus pneumoniae* nasopharyngeal carriage in a UK setting. *Epidemiology and Infection*, Oct;133(5):891-8.
- Melegaro A, Edmunds WJ. (2004) A cost-effectiveness analysis of the 7-valent conjugate vaccine in England and Wales. *Vaccine*, 22: 4203-4214.
- Melegaro A, Gay NJ, Medley GF. (2004) Estimating the transmission parameters of pneumococcal carriage in household. *Epidemiology & Infection*,132:433-41.
- Melegaro A, Edmunds WJ. (2004) The 23-valent pneumococcal polysaccharide vaccine. Part I- Efficacy of PPV in the elderly: a comparison of meta-analyses. *European Journal of Epidemiology*, 19(4) 353-363.
- Melegaro A, Edmunds WJ. (2004) The 23-valent pneumococcal polysaccharide vaccine. Part II- A cost-effectiveness analysis for invasive disease in the elderly. *European Journal of Epidemiology*, 19(4) 365-375.
- Balmer P, North J, Baxter D, Stanford E, Melegaro A, Kaczmarek EB et al. (2003) Measurement and interpretation of pneumococcal IgG levels for clinical management. *Clinical and Experimental Immunology*, 133(3): 364-369.
- Edmunds WJ, Brisson M, Melegaro A. (2002) The potential cost-effectiveness of acellular pertussis booster vaccination in England and Wales. *Vaccine*, 20:1316-1330.

BOOK

Pandemie d'Italia. Dalla peste nera all'influenza suina: l'impatto sulla società. G. Alfani, **A. Melegaro**. Con prefazione di F. Billari. Ed. EGEA 2010.

SELECTION OF PRESENTATIONS AT INTERNATIONAL CONFERENCES

- Individual mixing patterns relevant for infectious diseases transmission in different social contexts in Sub-Saharan Africa. 6th EPIDEMICS Conference, Sitges, Spain (December 2017)
- A dynamic cost-effectiveness analysis of varicella and herpes zoster vaccination programs in Italy. 6th EPIDEMICS Conference, Sitges, Spain (December 2017)
- Individual mixing patterns relevant for infectious diseases transmission in different social contexts in Sub-Saharan Africa. Forthcoming IUSSP Conference, Cape Town, South Africa (October 2017)
- A dynamic cost-effectiveness analysis of varicella and herpes zoster vaccination programs in Italy. iHEA Conference, Boston, United States (2017)
- Measles immunity gaps and the progress towards elimination: a multi-country modelling analysis. PAA Conference, Chicago, United States (2017)
- Investigating Social Contact Structures and Time Use Patterns in Sub-saharan Africa. *Invited talk*. SIMID Workshop, Antwerp, Belgium (2017)
- Modelling Infectious Diseases in Complex, Demographically Unstable Populations. *Invited talk*. Science Crossroads (2016), Torino, Italy
- Local demographic conditions and the progress towards measles elimination. Conference on Complex System, Contagion Satellite Session (2016)
- Investigating Social Contact Structures and Time Use Patterns in the Manicaland Province of Zimbabwe. Epidemics Conference, Clearwater Beach, Florida (2015)
- Local demographic conditions and progress towards measles elimination. Epidemics Conference, Clearwater Beach, Florida (2015)
- RSV transmission patterns in Kenya: a tool for public policy and vaccinology. European Conference on Complex Systems, Lucca, Italy (2014)
- Investigating Social Contact Structures and Time Use in Zimbabwe. International Biometrics Conference, Florence, Italy (2014)
- The Impact of Current Demographic Trends on the Dynamics and Control of Vaccine Preventable Childhood Infection. Biological Complexity: Past Commitments and Future Challenges, Arcidosso, Italy (2013).
- The Impact of Current Demographic Trends on Childhood Infectious Diseases. Population Association of America, Annual Meeting, New Orleans (LA) (2013).
- The Impact of Demographic Change on Infectious Diseases Transmission and Control in Middle/Low Income Countries (The DECIDE Project) Alpine Population Conference (AlpPop), La Thuile (AO), Italy (2013).

- “Modelling varicella and zoster in Europe: can we cope with the current decision paralysis on mass immunization?”, Epidemics-3, Third International Conference on Infectious Diseases Dynamics, Boston, MA, USA, (2011).
- “The role of social contacts on children’s health: Statistical inference on infectious disease data”, Population Association of America Conference, Washington (2011).
- “Using a mathematical model to evaluate the impact of different PCV schedules: Preliminary results from the West Africa epidemiological scenario”, Strategic Advisory group of Experts, WHO, Geneva, Switzerland, (2010)
- “Mathematical modelling for health economic evaluations”, SISMEC National Conference, Padua, Italy (2009).
- “The cost-effectiveness of pneumococcal vaccination programme”, WHO Global Meeting on Implementing New and Under-Utilized Vaccines (NUVI), Montreux, Switzerland (2009).
- “The development of an evidence based platform to assist countries with the decision making on introduction of new vaccines”, WHO and MoPH Thailand Collaborative Consultation Meeting, Bangkok (2009).
- “The importance of social mixing in the economic evaluation of vaccination programs. The case of varicella vaccination”, 7th European Conference on Health Economics, Rome, Italy (2008).
- “Estimating age-specific transmission rates for infectious diseases: fitting a survey of contact patterns to seroprevalence data for VZV and parvovirus B19”, 15th European Conference on Public Health (EUPHA), Helsinki, Finland (2007).
- “Economic evaluation analysis for developing countries setting”, GAVI Steering Committee, London (2005).
- “Estimating the biological parameters of pneumococcal carriage in households”, 4th International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD-4), Helsinki, Finland (2004).
- “Effectiveness and cost-effectiveness of pneumococcal vaccine for invasive disease in the elderly”, 3th International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD-3), Anchorage, Alaska (2002).

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2010 – 2020 Bocconi University, Milan, Italy: Supervision of: undergraduates (30), graduates (20), PhD (3), post-doc (6), Department of Social and Political Science and Dondena Centre for Research in Social Dynamics and Public Policy
- 2000 – 2010 Health Protection Agency, London, UK: Supervision of PhD (5) and post-doc (3)

REVIEWING ACTIVITIES

- 2019 – Member of the Editorial Board of *Scientific Reports Journal*, Springer Nature Limited
- *Ad hoc reviewer for (selected)*: The Lancet, The Paediatric Infectious Disease Journal, American Journal of Epidemiology, Vaccine, European Journal of Epidemiology, Epidemiology and Infection, Plos Medicine, Plos One, BMC Infectious Diseases, BMC Public Health, Biometrics, Proceedings of the Royal Society B, BMC Medicine, eLife, Journal of Infection, Epidemiology.
- *Review panel member for Scientific Grants*: Wellcome Trust: Senior Research Fellowship in Clinical Science; Netherlands Public Health Organisation: Health Research and Development, Infectious Disease Control Programme; Conseil de Paris: Emergence(s).

ORGANISATION OF SCIENTIFIC MEETINGS

- 2020 Workshop SELECT - Unfolding the SEcrets of LongEvity: Current Trends and future prospects, 50 participants, Bocconi University, Milan, Italy
- 2019 POPDAYS - Giornate di Studio sulla Popolazione 13th Edition, 250 participants, Bocconi University, Milan, Italy
- 2012 – 2017 DECIDE Workshops (ERC StG no. 283955) - The Impact of DEMographic Changes on Infectious DisEase Transmission and Control in Sub-saharan African countries, 30 participants, Bocconi University, Milan, Italy
- 2014 Dondena Seminar Series - Dondena Centre for Research on Social Dynamics and Public Policy, Bocconi University, Milan, Italy

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2018 – Member, Population Association of America
- 2017 – Member, SIS, Italian Society of Statistics
- 2016 – Member, AIES, Italian Association for Health Economics

CAREER BREAKS

- December 2005 - September 2006: First son, Pietro, maternity leave for 10 months
- January 2008 - October 2008: Second son, Francesco, maternity leave for 10 months