

Curriculum vitae of Gianpaolo Scalia Tomba

Gianpaolo Scalia Tomba, born in Stockholm (Sweden). Degree in Mathematics and PhD in Mathematical Statistics at the University of Stockholm. Active in theoretical and applied research and teaching of mathematics, probability theory, mathematical and medical statistics since 1976. After various research and teaching experiences in Sweden and France, since 1992, associate professor of probability theory and mathematical statistics (MAT/06), first at the University of Rome La Sapienza and, since 2001 until end 2022, at the University of Rome Tor Vergata. Presently, Docens Turris Virgatae, University of Rome Tor Vergata and guest professor, University of Stockholm. Extensive teaching experience in various Master and PhD courses. Since 2010, various courses at LUISS, Rome, in English.

Main research interests involve the study of mathematical models for disease spread in human populations and statistical methods for the analysis of data relevant to such models, but also modelling and statistical applications in medicine, biology and sociology, in particular drug use. Author/coauthor of more than 100 publications. Participation in several national, international and EU research projects.

Selected recent publications (out of more than 100...)

- Mossong J, Jit M, Hens N, Beutels P, Auranen K, Mikolajczyk R, Massari M, Scalia-Tomba G, Wallinga J, Sadkowska-Todys M, Edmunds J (2008) Social contacts and mixing patterns relevant to the spread of infectious diseases: a multi-country population-based survey, *PLoS Med* 5(3) e74. doi:10.1371/journal.pmed.0050074
- Scalia Tomba GP, Rossi C, Taylor C, Klempova D, Wiessing L. (2008) Guidelines for Estimating the Incidence of Problem Drug Use. Final Report CT.06.EPI.150.1.0, EMCDDA, Lisbon.
- Mariano A, Scalia Tomba G, Tosti ME, Spada E, Mele A (2009) Estimating the incidence, prevalence and clinical burden of hepatitis C over time in Italy. *Scand J Inf Dis*, 41, 689 – 699.
- Scalia Tomba G, Svensson Å, Asikainen T, Giesecke J (2010) Some model based considerations on observing generation times for communicable diseases. *Math Biosci* 223, 24-31, doi:10.1016/j.mbs.2009.10.004.
- Freiesleben de Blasio B, Iversen BG, Scalia Tomba G (2012) Effects of vaccines and antivirals during the major 2009 A(H1N1) pandemic wave in Norway - and the influence of vaccination timing. *PLoS One* 7(1): e30018. doi:10.1371/journal.pone.0030018
- Scalia Tomba G, Manfredi P (2013) Quantifying the re-exposure process to an infectious agent. Measles and varicella as examples. *Math Biosci* 245, 31-39, <http://dx.doi.org/10.1016/j.mbs.2013.07.013>
- Kuhnert R, Spila-Alegiani S, Scalia Tomba G, Traversa G, Vennemann M, Hecker H (2013) The association between multidose vaccinations and death: comparing case series methods when the first exposure changes the general risk of an event. *Stat Meth Appl* 22, 573-587, doi: 10.1007/s10260-013-0244-5
- Rossi C, Scalia Tomba G (2013) Epidemiology of Illicit Drug Use and Policy Evaluation: New Trends In Illicit Drug Markets: A Challenge For Policy Makers (Editorial). *Current Drug Abuse Reviews* 6(2) 85-85. doi: 10.2174/1874473706999140103165920

- Zuzzi S, Rossi C, Scalia Tomba G (2013) Estimates of Cocaine Use in Milan. *Current Drug Abuse Reviews* 6(2) 165-175. doi:10.2174/1874473706666131205153203
- Heesterbeek et al (including Scalia Tomba G) (2015) Modeling infectious disease dynamics in the complex landscape of global health. *Science* 347 (6227) 13 March 2015: aaa4339 DOI:10.1126/science.aaa4339]
- Hansen Edwards C, Scalia Tomba G, Freiesleben De Blasio B (2016) Influenza in workplaces: transmission, workers' adherence to sick leave advice and European sick leave recommendations. *European Journal of Public Health* 26 (3), 478-485. DOI: 10.1093/eurpub/ckw031
- Marangi L, Mirinaviciute G, Flem E, Scalia Tomba G, Guzzetta G, Freiesleben de Blasio B, Manfredi P (2017) The natural history of varicella zoster virus infection in Norway: Further insights on exogeneous boosting and progressive immunity to herpes zoster. *PLoS One* 12(5): e0176845. doi:10.1371/journal.pone.0176845
- Marchetti S, Guzzetta G, Flem E, Mirinaviciute G, Scalia Tomba G, Manfredi P (2018) Modeling the impact of combined vaccination programs against varicella and herpes zoster in Norway. *Vaccine* 36,1116-1125. DOI: 10.1016/j.vaccine.2018.01.038
- Britton T, Scalia Tomba G (2019) Estimation in emerging epidemics: biases and remedies. *J.R. Soc. Interface* 16:20180670. DOI: 10.1098/rsif.2018.0670
- Waldron J, et al (2020) How do online and offline sampling compare in a multinational study of drug use and nightlife behaviour? *Int J Drug Policy* 82, 102812. <https://doi.org/10.1016/j.drugpo.2020.102812>
- Wolff E, Widgren K, Scalia Tomba G, Roth A, Lep Tiia, Andersson S (2021) Cost-effectiveness of varicella and herpes zoster vaccination in Sweden: An economic evaluation using a dynamic transmission model. *PLoS ONE* 16(5): e0251644. <https://doi.org/10.1371/journal.pone.0251644>
- Marion G, Hadley L, Isham V, Mollison D, Panovska-Griffiths J, Pellis L, Scalia Tomba G, Scarabel F, Swallow B, Trapman P, Villela D (2022) Modelling: understanding pandemics and how to control them. *Epidemics* <https://doi.org/10.1016/j.epidem.2022.100588>