

# Alessia Melegaro

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Assistant Professor of Public Management  
and Policy

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## Curriculum Vitae

PhD in Biological Sciences. Ecology & Epidemiology Group, Warwick University, UK.  
Research Degree Student. Infectious Disease and Epidemiology Unit, London School of Hygiene and Tropical Medicine, London, UK. (Awarded an MRC fellowship)  
Laurea (with distinction) in Economics. Institute for Quantitative Methods, Bocconi University, Milan, Italy.

### Academic position and/or professional activities

Assistant Professor in Demography and Social Statistics at the Policy Analysis and Public Management Department  
Research Fellow at the DONDENA Centre for Research on Social Dynamics.

### Research Interests

- Policy modelling,
- health and well-being.
- Mathematical modelling and statistical analysis of infectious disease data,
- Economic evaluation of healthcare programs,
- Designing optimal vaccination programs for resource poor settings,
- Demographic trends and the effects on social interactions.

## Selection

- Van Hoek A.J., Melegaro A., Gay N., Bilcke J., Edmunds W.J. The cost-effectiveness of varicella and combined varicella and Herpes zoster vaccination programmes in the United Kingdom. *Vaccine* 2012 Feb 1;30(6):1225-34.
- Choi Y.H., Jit M., Gay N., Andrews N., Waight P.A., Melegaro A., George R., Miller E. 7-valent pneumococcal conjugate vaccination in England and Wales: is it still beneficial despite high levels of serotype replacement? *PLoS One*. 2011;6(10):e26190. Epub 2011 Oct 14.
- Melegaro, A.; Jit, M.; Gay, N.; Zagheni, E.; Edmunds, W. J. What types of contacts are important for the spread of infections? Using contact survey data to explore European mixing patterns. *Epidemics*, 3, 2011, 143:151
- van Hoek AJ, Melegaro A, Zagheni E, Edmunds WJ, Gay N. Modelling the impact of a combined varicella and zoster vaccination programme on the epidemiology of varicella zoster virus in England. *Vaccine*. 2011 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. Modelling the impact of local reactive school closures on critical care provision during an influenza pandemic. *Proc Biol Sci*. 2011 Feb 2.
- Melegaro A, Choi YH, George R, Edmunds WJ, Miller E, Gay NJ. Dynamic models of pneumococcal carriage and the impact of the Heptavalent Pneumococcal Conjugate Vaccine on invasive pneumococcal disease. *BMC Infect Dis*. 2010 Apr 8;10:90.
- van Hoek A J; Gay N; Melegaro A; Opstelten W; Edmunds WJ. Estimating the cost-effectiveness of vaccination against herpes zoster in England and Wales. *Vaccine* 2009;27(9):1454-67.
- Zagheni E, Billari FC, Manfredi P, Melegaro A, Mossong J, Edmunds WJ. Using time-use data to parameterize models for the spread of close-contact infectious diseases. *Am J Epidemiol*. 2008 Nov 1;168(9):1082-90. Epub 2008 Sep 18.
- Melegaro A, Choi Y, Pebody R, Gay N. Pneumococcal carriage in United Kingdom families: estimating serotype-specific transmission parameters from longitudinal data. *Am J Epidemiol*. 2007 Jul 15;166(2):228-35.
- Melegaro A, Edmunds WJ. A cost-effectiveness analysis of the 7-valent conjugate vaccine in England and Wales. *Vaccine* 2004;22: 4203-4214.
- Melegaro A, Gay NJ, Medley GF. Estimating the transmission parameters of pneumococcal carriage in household. *Epidemiology and Infection* 2004;132:433-41.
- Edmunds WJ, Brisson M, Melegaro A. The potential cost-effectiveness of acellular pertussis booster vaccination in England and Wales. *Vaccine* 2002; 20:1316-1330.