

# Maarten J. Bijlsma

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## PERSONALIA

Full name: Bijlsma, Maarten Jacob  
Languages: Dutch (native),  
English, German  
Author metrics: Citations: 146  
h-index: 7



## Current position

**Research Scientist** (1<sup>st</sup> Nov 2015 – current)  
Laboratory of Population Health  
Max Planck Institute for Demographic Research, Germany

## Previous experience

Visiting Scholar (Upcoming: 15<sup>th</sup> March – 25<sup>th</sup> April, 2018)  
Population Studies Center, University of Pennsylvania, USA

PhD Fellow (AIO) (1<sup>st</sup> Oct, 2011 – 30<sup>th</sup> Sept, 2015)  
Research unit Pharmacoepidemiology, University of Groningen, the Netherlands

Visiting Scholar (1<sup>st</sup> March – 31<sup>st</sup> May, 2015)  
Dept. of Medical Statistics, London School of Hygiene and Tropical Medicine, UK

Visiting Scholar (1<sup>st</sup> March – 31<sup>st</sup> March, 2011)  
Dept. of Social Statistics & Demography, University of Southampton, UK

## Education

**Ph.D. Epidemiology** (2016)  
Mathematics & Natural Sciences, University of Groningen, the Netherlands  
Thesis: *Age-period-cohort methodology: confounding by birth cohort in cardiovascular pharmacoepidemiology*  
Advisors: Eelko Hak, Stijn Vansteelandt, Fanny Janssen  
Thesis opponents: Mikko Myrskylä (LSE), Leo van Wissen (NIDI), Michiel Bots (UMC Utrecht)

**M.Sc. Statistical Data Analysis** (2014)  
Sciences, Ghent University, Belgium  
Graduated *with distinction*

**M.Sc. Regional Studies (Research)** (2011)  
Spatial Sciences, University of Groningen, the Netherlands  
Specialization in Population Studies  
Graduated *with highest distinction*

**B.Sc. Human Geography** (2009)  
Spatial Sciences, University of Groningen, the Netherlands  
Graduated *with highest distinction*

**Bijlsma MJ**, Tarkiainen L, Myrskylä M, Martikainen P. Unemployment and subsequent depression: a mediation analysis using the parametric G-formula. *Social Science & Medicine* 2017;194:142-150. (IF: 2.797)

**Bijlsma MJ**, Daniel RM, Janssen F, De Stavola BL. An assessment and extension of the mechanism-based approach to the identification of age-period-cohort models. *Demography* 2017; 54: 721-743. (IF: 2.800, the top journal in Demography).

Trias-Llimós S, **Bijlsma MJ**, Janssen F. The role of birth cohorts in long-term trends in liver cirrhosis mortality across eight European countries. *Addiction* 2017;112(2):250-258. (IF: 4.97, #1 journal in category 'Substance abuse').

Mulder B, **Bijlsma MJ**, Schuiling-Veninga CCM, Morssink LP, van Puijenbroek E, Aarnoudse JG, Hak E, de Vries TW. Risks versus benefits of medication use during pregnancy: what do women perceive? *Patient Preference and Adherence*. In Press. (IF: 1.798)

Darvishian M, Dijkstra F, Van Doorn E, **Bijlsma MJ**, Donker GA, De Lange MA, Cadenau LM, Hak E, Meijer A. Influenza vaccine effectiveness in the Netherlands from 2003/2004 through 2013/2014: the importance of circulating influenza virus types and subtypes. *PLoS One*. 2017 9;12(1). (IF: 3.057)

**Bijlsma MJ**, Janssen F, Hak E. Estimating time-varying drug adherence using electronic records: extending the Proportion of Days Covered (PDC) method. *Pharmacoepidemiology & Drug Safety* 2016;25(3):325-32 (IF: 2.94)

**Bijlsma MJ**, Vansteelandt S, Janssen F, Hak E. The effect of adherence to statin therapy on cardiovascular mortality: quantification of unmeasured bias using falsification end-points. *BMC Public Health*. 2016 11;16:303. (IF: 2.264)

Berm EJJ, Odigie B, **Bijlsma MJ**, Wilffert B, Touw DJ, Maring JG. A clinical validation study for application of dried blood spots in therapeutic drug monitoring of antidepressants. *Bioanalysis* 2016;8(5):413-24 (IF: 3.003)

Nguyen TP, Wright EP, Nguyen TT, Schuiling-Veninga CC, **Bijlsma MJ**, Nguyen TB, Postma MJ. Cost-effectiveness analysis of screening for and managing identified hypertension for cardiovascular disease prevention in Vietnam. *PLoS One*. 2016; 11(5). (IF: 3.057)

**Bijlsma MJ**, Janssen F, Bos HJ, Kamphuisen PW, Vansteelandt S, Hak E. Brief Report: Association Between Statin Use and Cardiovascular Mortality at the Population Level: An Ecologic Study. *Epidemiology* 2015;26(6):802-5. (IF: 6.18)

**Bijlsma MJ**, Janssen F, Lub R, Bos HJ, De Vries FM, Vansteelandt S, Hak E. Birth cohort appeared to confound effect estimates of guideline changes on statin utilization. *Journal of Clinical Epidemiology* 2015; 68(3):334-40 (IF: 3.42)

Kröpelin TF, de Zeeuw D, Andress DL, **Bijlsma MJ**, Persson F, Parving HH, Lambers Heerspink HJ. Number and Frequency of Albuminuria Measurements in Clinical Trials in Diabetic Nephropathy. *Clinical Journal of the American Society of Nephrology* 2015; 10(3):410-6. (IF: 5.25)

Darvishian M, **Bijlsma MJ**, Hak E, Van den Heuvel ER. Seasonal influenza vaccine effectiveness among the community-dwelling elderly: a meta-analysis of test-negative design case-control studies. *The Lancet: Infectious Diseases* 2014; 14(12):1228-39. (IF: 19.45, #1 journal in category 'Infectious diseases' )

Gefenaite G, **Bijlsma MJ**, Bos HJ, Hak E. Did introduction of pneumococcal vaccines in the Netherlands decrease the need for respiratory antibiotics in children? Analysis of 2002 to 2013 data. *Eurosurveillance*. 2014; 19(44). (IF: 5.86)

**Bijlsma MJ**. Commentary: G-computation might be used to control for confounding when estimating the population-level impact of interventions through outcome distribution curves. *Journal of Clinical Epidemiology*. 2014. 67(11):1286. (IF: 3.42)

**Bijlsma MJ**, Hak E, Bos HJ, De Jong-van den Berg LTW, Janssen F. Assessing the effect of a guideline change on prevalence of benzodiazepine use by including the birth cohort dimension: interrupted time series

studies. *Pharmacoepidemiology & Drug Safety* 2013; 22(9): 933-941. (IF: 3.17)

Klaassens M, **Bijlsma MJ**. New places of remembrance: Individual Web memorials in the Netherlands. *Death Studies* 2013. DOI: 10.1080/07481187.2012.742474. (IF: 0.674)

**Bijlsma MJ**, Hak E, Bos HJ, De Jong-Van den Berg LTW, Janssen F. Inclusion of the birth cohort dimension improved description and explanation of trends in statin use. *Journal of Clinical Epidemiology* 2012; 65: 1052-1060. (IF: 3.42)

#### **Under review**

**Bijlsma MJ**, Wilson B. A new approach to understanding the socio-economic determinants of fertility over the life course.

Riffe T, van Raalte A, **Bijlsma MJ**. Healthy life expectancy, mortality, and age prevalence of morbidity.

Vidra N, **Bijlsma MJ**, Janssen F. Past trends of obesity attributable mortality in the Netherlands: an application of age-period-cohort analysis.

Vidra N, **Bijlsma MJ**, Trias-Llimós S, Janssen F. Impact of different estimation methods and underlying choices on obesity-attributable mortality: the case of the Netherlands.

#### **Working papers**

**Bijlsma MJ**, Evans R. The G-formula's null paradox: towards intuition with examples.

#### **Research in progress**

Causality in the study of population health: a counterfactual-based approach to understanding social differences in health (with Nikkil Sudharsanan)

Parenthood Timing and Socioeconomic Consequences in Young Adulthood: A Longitudinal Analysis of Women and Men (with Jessica Nisén, Ben Wilson, Mikko Myrskylä and Pekka Martikainen)

Unemployment and subsequent depression: a parametric G-formula approach combined with individual-specific fixed-effect intercepts (with Lasse Tarkiainen, Ben Wilson, Mikko Myrskylä and Pekka Martikainen)

Intergeneration Transmission of Attitudes toward Migration as a Potential Antagonist of Demographic Metabolism (with Erich Striessnig and Nadia Steiber).

#### **Dutch language publications**

Van Doorn E, Darvishian M, Dijkstra F, **Bijlsma MJ**, Donker GA, de Lange MMA, Cadenau LM, Hak E, Meijer A. Effectiviteit van influenzavaccinatie in Nederland: dominant circulerend virustype en match zijn bepalend. *Nederlands Tijdschrift voor Geneeskunde* 2017;161:D1648.

**Bijlsma MJ**, Janssen F, Bos HJ, Kamphuisen PW, Vansteelandt S, Hak E. Associatie tussen gebruik van statine en cardiovasculaire sterfte in Nederland 1994-2010: een ecologische studie. *Medisch Farmaceutische Mededelingen* 2015; 4: 23-5.

**Bijlsma MJ**, Oortgiesen BE, Beernink RHJ, Bos J, Willfert B, Hak E. Het effect van de CBG-waarschuwing op de trend in SSRI-gebruik in Nederland van 1998 tot 2010. *Pharmaceutisch Weekblad Wetenschappelijk Platform* 2014;8:A1406.

**Bijlsma MJ**, Bos HJ, De Jong-van den Berg LTW, Janssen F. Periodepatronen, leeftijdpatronen en cohortpatronen in de prevalentie van benzodiazepinegebruik en statinegebruik: de invloed van veranderde richtlijnen. *Pharmaceutisch Weekblad Wetenschappelijk Platform* 2011; 5(10): 169-173.

**Bijlsma MJ**, Moerman JM. Herdenken in een post-geografische ruimte. *Rooilijn* 2010; 43(1) pp. 22-7.

<b>Invited talks</b>	<p>Nuffield College, Oxford University, UK, October 2017.</p> <p>Population Research Unit, University of Helsinki, Finland, January 2017.</p> <p>Netherlands Interdisciplinary Demographic Institute, the Hague, the Netherlands, September 2015.</p> <p>Medical Statistics Department, London School of Hygiene &amp; Tropical Medicine, UK, May 2015.</p> <p>Department of Social Policy, London School of Economics &amp; Political Science, UK, May 2015.</p> <p>Department of Methodology, London School of Economics &amp; Political Science, UK, May 2015.</p>
<b>Conference presentations</b>	<p>18 oral presentations and 3 poster presentations (incl. orals at the Population Association of America, the European Population Conference and the International Conference on Pharmacoepidemiology &amp; Therapeutic Risk Management). Full list is available on request.</p>
<b>Grants</b>	<p>I was awarded an <b>Ubbo Emmius Grant</b> to fund my PhD research. Value: € 198,693 over 4 years.</p>
<b>Professional activities</b>	<p><b>Professional associations</b></p> <p>European Association for Population Studies (2014 – ), the Netherlands Demographic Society (2011 – ). The Netherlands Society for Statistics and Operations Research (2013 – 2015), International Society for Pharmacoepidemiology (2012 – 2015).</p> <p><b>Other professional activities</b></p> <p>Organizer Rostock Retreat on Causality (2017 – ).</p> <p>Co-founder and editor of Demotrends: weblog on demographic trends and research (2012 – ).</p> <p>Member PhD council SHARE Research Institute for Health Research, University Medical Centre Groningen (Sept 2011 – Sept 2012).</p>
<b>Teaching experience</b>	<p>I am preparing a three-day workshop on Causal Mediation Analysis with Longitudinal Data. To be held at the University of Helsinki, Finland, in May 2018.</p> <p>Co-supervised 3 MSc theses (2 at Univ. Groningen, Dept of Pharmacy, 1 at Univ. Rostock, Social Sciences), and 2 BSc theses (at Univ. Groningen, Dept of Pharmacy).</p> <p>Lectured series ‘Introduction to survival analysis’. Department of Demography, Faculty of Spatial Sciences, University of Groningen. Jan 2014 and Jan 2015.</p> <p>Teaching-assistant Analytical Demography. Department of Demography, Faculty of Spatial Sciences, University of Groningen. Jan 2010 – Jan 2012.</p> <p>Teaching-assistant Statistics. Department of Economic Geography, Faculty of Spatial Sciences. University of Groningen. Sept 2008 – Aug 2011.</p>
<b>Programming languages</b>	<p>I am primarily an R user, but have good working knowledge of SAS, SPSS, MySQL and Microsoft SQL server.</p>

**Academic service | Reviewed for**

International Journal of Epidemiology; European Journal of Epidemiology; International Journal of Cardiology; International Journal of Chronic Obstructive Pulmonary Disease; Nutrition, Metabolism & Cardiovascular Diseases; Demography; PLoS ONE; Drug Safety; Journal of Comparative Effectiveness Research; Clinical Epidemiology; Public Understanding of Science; Advances in Life Course Research; Demographic Research; Injury Epidemiology; Death Studies.

**Chaired sessions at conferences**

Dutch Demography Day

**Weblog entries |** Bijlsma MJ. 'Inferring population-level effects from individual-level effect estimates: G-computation'. *Demotrends (Weblog)*. Sept 1, 2015.

Bijlsma MJ. 'A hot topic and a futile quest? The recent discussion on age-period-cohort analysis'. *Demotrends (Weblog)*. Feb 17, 2014.

Bijlsma MJ. 'The bias-variance tradeoff, what it means for quantitative researchers'. *Demotrends (Weblog)*. Sept 4, 2013.

Bijlsma MJ. 'Homage to the Lexis diagram'. *Demotrends (Weblog)*. Aug 23, 2013.

Bijlsma MJ. 'Demography and Epidemiology: Past and Future Directions'. *Demotrends (Weblog)*. Feb 12, 2013.

**Press coverage |** "Better Understanding of Alcohol-Related Mortality Trends in Europe". Population Europe. March 20, 2017.