

CURRICULUM VITAE

March 2020

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ACADEMIC POSITIONS

2015, Nov 1 st – Current	Research Scientist , Laboratory of Population Health, Max Planck Institute for Demographic Research, Germany
2018, March 15 th – April 25 th	Visiting Scholar , Population Studies Center, University of Pennsylvania, USA
2011, Oct 1 st – 2015, Sept 30 th	PhD Fellow (AIO) , Unit Pharmacoepidemiology & Pharmacoeconomics, University of Groningen, the Netherlands
2015, March 1 st - May 31 st	Visiting Scholar , Department of Medical Statistics, London School of Hygiene and Tropical Medicine, UK
2011, March 1 st – March 31 st	Visiting Scholar , Department of Social Statistics & Demography, University of Southampton, UK

EDUCATION

2016	Ph.D. Epidemiology Advisors:	University of Groningen, the Netherlands Prof. Dr. Eelko Hak (Epidemiologist) Prof. Dr. Stijn Vansteelandt (Statistician) Dr. Fanny Janssen (Demographer)
2014	M.Sc. Applied Statistics*	University of Ghent, Belgium
2011	M.Sc. Demography (research)**	University of Groningen, the Netherlands
2009	B.Sc. Human Geography**	University of Groningen, the Netherlands

* *with distinction*; ** *with highest distinction*

PEER REVIEWED PUBLICATIONS

- 2020 **Bijlsma MJ**, Wilson B. Modelling the socio-economic determinants of fertility: a mediation analysis using the parametric g-formula. *Journal of the Royal Statistical Society: Series A (Statistics in Society)* 2020; 183(2):493-513.
- 2019 **Bijlsma MJ**, Wilson B, Tarkiainen L, Myrskylä M, Martikainen P. The impact of unemployment on antidepressant purchasing: adjusting for unobserved time constant confounding in the g-formula. *Epidemiology* 2019;30: 388–395.
- 2018 Vidra N, **Bijlsma MJ**, Trias-Llimós S, Janssen F. Past trends of obesity attributable mortality in eight European countries: an application of age-period-cohort analysis. *International Journal of Public Health* 2018; 63(6):683-692.
- 2018 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 & Adherence* 2018; 12: 1–8.
- 2017 **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.
- 2017 **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.
- 2017 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.
- 2017 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).
- 2016 **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.
- 2016 **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.
- 2016 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.
- 2016 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).
- 2015 **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.

- 2015 **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.
- 2015 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.
- 2014 **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.
- 2014 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.
- 2014 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).
- 2013 **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.
- 2012 Klaassens M, **Bijlsma MJ**. New places of remembrance: Individual Web memorials in the Netherlands. *Death Studies* 2013. DOI: 10.1080/07481187.2012.742474.
- 2012 **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.

UNDER REVIEW

Sudharsanan N, **Bijlsma MJ**. A generalized counterfactual approach to decomposing differences between populations.

Nisen J, **Bijlsma MJ**, Wilson B, Myrskylä M, Martikainen P. The gendered impacts of delayed parenthood on educational and labor market outcomes: a dynamic analysis of population-level effects over young adulthood.

RESEARCH IN PROGRESS (selected)

Postponed retirement delays cognitive decline: using counterfactual causal inference to disentangle life-course risk factors (with Angelo Lorenti¹ and Jo Hale²).

Problems in the family: a simulation study of linear dependency problems arising from using family fixed effects (with Ben Wilson^{3,4}, Siddhartha Aradhya⁴, Alice Goisis⁵)

Putting the life course in its context: joining the g-formula with multilevel analysis (with Alastair Leyland⁶, Ruth Dundas⁶, Mikko Myrskylä^{1,7} and Pekka Martikainen⁷).

Employment and child mental health (with Anna Baranowska-Rataj⁸, Niina Metsä-Simola⁷ and Pekka Martikainen⁷).

1. Max Planck Institute for Demographic Research, Germany
2. University of St. Andrews, United Kingdom
3. London School of Economics & Political Science, United Kingdom
4. Stockholm University, Sweden
5. University College London, United Kingdom
6. University of Glasgow, United Kingdom
7. University of Helsinki, Finland
8. Umeå University, Sweden

INVITED TALKS

2019, Dec 13 th	Centre for Demographic Studies, Barcelona, Spain.
2019, Dec 5 th	Interdisciplinary Centre on Population Dynamics, Odense, Denmark.
2019, Feb 12 th	Institute for Global Health, Heidelberg University, Germany.
2019, Jan 17 th	Dept. of Medical Epidemiology and Biostatistics, Karolinska Institute, Sweden.
2019, Jan 10 th	Demography Unit, Dept. of Sociology, Stockholm University, Sweden.
2019, Jan 9 th	Dept. of Public Health Sciences, Stockholm University, Sweden.
2018, April 23 rd	Population Studies Center, University of Pennsylvania, USA.
2017, Oct 30 th	Nuffield College, Oxford University, United Kingdom.
2017, Jan 20 th	Population Research Unit, University of Helsinki, Finland.
2015, Sept 3 rd	Netherlands Interdisciplinary Demographic Institute, the Hague, the Netherlands.
2015, May 21 st	Dept. of Medical Statistics, London School of Hygiene & Tropical Medicine, United Kingdom.
2015, May 20 th	Dept. of Social Policy, London School of Economics & Political Science, United Kingdom.
2015, May 7 th	Dept. of Methodology, London School of Economics & Political Science, United Kingdom.

CONFERENCE PRESENTATIONS

Full list is available on request. I have given various oral and poster presentations at national, European and North American conferences, incl. orals at the Annual Meeting of the Population Association of America, the European Population Conference and the International Conference on Pharmacoepidemiology & Therapeutic Risk Management.

GRANTS

Ubbo Emmius Grant in 2011 to fund my PhD research. Value: € 198,693.- over 4 years, ca. \$ 284,875.- using the August 2011 exchange rate. Highly competitive grant with 9% acceptance rate.

PROFESSIONAL ACTIVITIES

Professional associations

Population Association of America (PAA), European Association for Population Studies (EAPS), Netherlands Demographic Society (NVD).

Other professional activities

- 2012 – Current Co-founder and editor of Demotrends: weblog on demographic trends and research. <https://demotrends.org/>
- 2017 – 2018 Organizer Rostock Retreat on Causality (Budget: € 25,000.-).
- 2011 – 2012 Member PhD council SHARE Research Institute for Health Research, University Medical Centre Groningen.

TEACHING EXPERIENCE

- Developed and taught a 5-day course ‘Introduction to Counterfactual Causal Inference’. European Doctoral School of Demography, Autonomous University of Barcelona, Spain, Taught in December 2020.
- Developed and taught a 5-day workshop ‘Causal Mediation Analysis’. University of Helsinki, Finland, Taught in May 2018 and May 2019. Student Rating: 4.5 out of 5.
- Co-supervised MSc theses at the University of Groningen, Dept. of Pharmacy, and at the University of Rostock, Dept. Social Sciences.
- Taught ‘Introduction to survival analysis’. Department of Demography, University of Groningen. Jan 2014 and Jan 2015. Student Rating: 4.0 out of 5.
- Student teaching assistant Analytical Demography. Department of Demography. University of Groningen, Jan 2010 – Jan 2012.
- Student teaching assistant Statistics. Department of Economic Geography, University of Groningen. Sept 2008 – Aug 2011.

REVIEWED FOR

Advances in Life Course Research;	Int. J. Cardiology;
Archives of Gerontology & Geriatrics;	Int. J. COPD;
Clinical Epidemiology;	Int. J. Epidemiology;
Death Studies;	Journal of Clinical Medicine;
Demographic Research;	J. Comparative Effectiveness Research;
Demography;	Journal of the Royal Statistical Society;
Drug Safety;	Nutrition, Metabolism & CVD;
Epidemiology;	Pharmacoepidemiology & Drug Safety;
European Journal of Epidemiology;	PLoS ONE;
Frontiers in Pharmacology;	Public Understanding of Science;
Health & Place;	Rejuvenation Research.
Injury Epidemiology;	

 STATISTICAL LANGUAGES & SOFTWARE

Statistical programmes and languages

R, RStudio Expert: 10+ years of daily programming experience, incl. teaching.
 SPSS Experienced user: 5+ years of daily user experience.
 SAS; STATA Working knowledge: 5 years of infrequent use.

Database languages

MySQL, SQL server Working knowledge: 4 years of infrequent use.

Authored statistical packages

cfdecomp An R-package for decomposing differences between populations, uses Monte Carlo integration for added flexibility.
 Available on [CRAN](#) & [Github](#)

 WEBLOG ENTRIES (<https://demotrends.org/>)

2015, Sept 1st Bijlsma MJ. ‘Inferring population-level effects from individual-level effect estimates: G-computation’.
 2014, Feb 17th Bijlsma MJ. ‘A hot topic and a futile quest? The recent discussion on age-period-cohort analysis’.
 2013, Sept 4th Bijlsma MJ. ‘The bias-variance tradeoff, what it means for quantitative researchers’.
 2013, Aug 23rd Bijlsma MJ. ‘Homage to the Lexis diagram’.
 2013, Feb 12th Bijlsma MJ. ‘Demography and Epidemiology: Past and Future Directions’.

 DUTCH LANGUAGE PUBLICATIONS * denotes peer reviewed publication

2017* 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.
 2015 **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.
 2014* **Bijlsma MJ**, Oortgiesen BE, Beernink RHJ, Bos J, Wilffert 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.
 2011* **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.
 2010 **Bijlsma MJ**, Moerman JM. Herdenken in een post-geografische ruimte. *Rooilijn* 2010; 43(1): 22-7.

PRESS COVERAGE

2017, March 20th “Better Understanding of Alcohol-Related Mortality Trends in Europe”. Population Europe.

LANGUAGES

Dutch	Native speaker
English	Highly advanced proficiency: CEFR level C2 (working language at current and previous place of employment)
German	Independent user: CEFR level B1 – B2 (official language of current country of residence)
Spanish	Beginner: CEFR level A1