

## CURRICULUM VITAE

November 2020

### Maarten J. Bijlsma, Ph.D.

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#### ACADEMIC POSITIONS

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2020, July 1 <sup>st</sup> – Current	<b>Deputy Head</b> , Laboratory of Population Health, Max Planck Institute for Demographic Research, Germany
2015, Nov 1 <sup>st</sup> – 2020, June 30 <sup>th</sup>	<b>Research Scientist</b> , Laboratory of Population Health, Max Planck Institute for Demographic Research, Germany
2011, Oct 1 <sup>st</sup> – 2015, Sept 30 <sup>th</sup>	<b>PhD Fellow</b> (AIO), Unit Pharmacoepidemiology & Pharmacoeconomics, University of Groningen, the Netherlands
<i>Visiting scholarships</i>	
2018, March 15 <sup>th</sup> – April 25 <sup>th</sup>	Population Studies Center, University of Pennsylvania, USA
2015, March 1 <sup>st</sup> – May 31 <sup>st</sup>	Department of Medical Statistics, London School of Hygiene and Tropical Medicine, UK
2011, March 1 <sup>st</sup> – March 31 <sup>st</sup>	Department of Social Statistics & Demography, University of Southampton, UK

#### EDUCATION

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

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

## PEER REVIEWED PUBLICATIONS

- 2020 Diallo AO, Ali MK, Geldsetzer P, Gower EW, Mukama T, Wagner RG, Davies J, **Bijlsma MJ**, Sudharsanan N. Systolic blood pressure and mortality in South Africa: Evidence from a nationally representative cohort study. *The Lancet: Healthy Longevity* (accepted for publication).
- 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 Vidra N, **Bijlsma MJ**, Janssen F. Impact of Different Estimation Methods on Obesity-Attributable Mortality Levels and Trends: The Case of The Netherlands. *Int J Environ Res Public Health*. 2018;15(10):2146.
- 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

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- Sudharsanan N, **Bijlsma MJ**. Causal decomposition of population health differences using Monte Carlo integration and the g-formula (Revise and Resubmit at *International Journal of Epidemiology*).
  - Pitkanen, **Bijlsma MJ**, Remes H, Altonen M, Martikainen P. The effect of low childhood income on self-harm in young adulthood: mediation by adolescent mental health, behavioural factors and school performance. (Revise and Resubmit at *Social Science and Medicine: Population Health*)
  - Hu Y, Korhonen K, Li P, Holmes MV, Bobak M, Martikainen P, **Bijlsma MJ**. Relationship between alcohol use disorders and early- and late-onset dementia: is cardiovascular disease a mediator?

- Hale JM, **Bijlsma MJ**, Lorenti A. Does postponing retirement affect cognitive function? A counterfactual experiment to disentangle life course risk factors.
- 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.

## INVITED TALKS

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2021, Spring	(Planned digital talk) Cornell Population Center, Cornell University, New York, USA.
2020, Nov 12 <sup>th</sup>	(Digital talk) Dept. of Clinical Epidemiology, Karolinska Institute, Sweden
2019, Dec 13 <sup>th</sup>	Centre for Demographic Studies, Barcelona, Spain.
2019, Dec 5 <sup>th</sup>	Interdisciplinary Centre on Population Dynamics, Odense, Denmark.
2019, Feb 12 <sup>th</sup>	Institute for Global Health, Heidelberg University, Germany.
2019, Jan 17 <sup>th</sup>	Dept. of Medical Epidemiology and Biostatistics, Karolinska Institute, Sweden.
2019, Jan 10 <sup>th</sup>	Demography Unit, Dept. of Sociology, Stockholm University, Sweden.
2019, Jan 9 <sup>th</sup>	Dept. of Public Health Sciences, Stockholm University, Sweden.
2018, April 23 <sup>rd</sup>	Population Studies Center, University of Pennsylvania, Pennsylvania, USA.
2017, Oct 30 <sup>th</sup>	Nuffield College, Oxford University, United Kingdom.
2017, Jan 20 <sup>th</sup>	Population Research Unit, University of Helsinki, Finland.
2015, Sept 3 <sup>rd</sup>	Netherlands Interdisciplinary Demographic Institute, the Hague, the Netherlands.
2015, May 21 <sup>st</sup>	Dept. of Medical Statistics, London School of Hygiene & Tropical Medicine, United Kingdom.
2015, May 20 <sup>th</sup>	Dept. of Social Policy, London School of Economics & Political Science, United Kingdom.
2015, May 7 <sup>th</sup>	Dept. of Methodology, London School of Economics & Political Science, United Kingdom.

## CONFERENCE PRESENTATIONS

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Full list is available on request. I have given oral and poster presentations at large national, European, and North American demography and (pharmaco)epidemiology conferences.

## GRANTS

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- **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.

In addition, three ‘**close, but no cigar**’ applications, i.e. this funding was –not– received:

- Max Planck Research Group Leader Grant in 2020. Value ca. € 1.5 million. Ranked 6<sup>th</sup> out of 100+ applicants, and 4 received funding.

- NWO VENI grant in 2019. Value ca. € 250,000. Two external reviews returned which scored my proposal A+ and A, (an A+ is the highest score, A is just below it) but I did not receive an invitation for an interview.
- NWO Rubicon grant in 2016. Value ca. € 200,000. Ranked 11<sup>th</sup> out of 100+ applicants, and 8 received funding.

## PROFESSIONAL ACTIVITIES

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### **Professional associations**

International Society for Pharmacoepidemiology (ISPE), Population Association of America (PAA), European Association for Population Studies (EAPS), Netherlands Demographic Society (NVD), Netherlands Society for Statistics and Operations Research (VVSOR).

### **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.

## SUPERVISION, COURSE COORDINATION, and TEACHING EXPERIENCE

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### *Supervision of Ph.D. students*

- Daily supervisor of Maria Gueltzow since 2020 (IMPRS-PHDS MPIDR core student, affiliated with Erasmus Medical Center Rotterdam).
- External supervisor of Ph.D. students in the International Max Planck Research School for Population, Health and Data Science:
  - Lizbeth Burgos Ochoa since 2020 (Erasmus Medical Center Rotterdam).
  - Joonas Pitkänen since 2019 (University of Helsinki).

### *Course coordination*

- Coordinated the International Max Planck Research School – Population, Health and Data Science course “Population Health”, Max Planck Institute for Demographic Research, Rostock, Germany in 2020.

### *Teaching*

- 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 2019.
- 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

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Advances in Life Course Research;  
Archives of Gerontology & Geriatrics;  
Clinical Epidemiology;  
Death Studies;  
Demography;  
Demographic Research;  
Drug Safety;  
European Journal of Epidemiology;  
Epidemiology;  
Frontiers in Pharmacology;  
Health & Place;  
Injury Epidemiology;  
International Journal of Cardiology;  
International Journal of Chronic Obstructive Pulmonary Disease;  
International Journal of Epidemiology;  
Journal of Clinical Medicine;  
Journal of Comparative Effectiveness Research;  
Journal of the Royal Statistical Society Series A (Statistics in Society);  
Nutrition, Metabolism & Cardiovascular Diseases;  
\*Pharmacoepidemiology & Drug Safety;  
Philosophical Transactions of the Royal Society B (Biological Sciences)  
PLoS ONE;  
Public Understanding of Science.  
Rejuvenation Research

*\* Rated by the editorial board as top reviewer in 2019 based on quality and timeliness of reviews.*

## STATISTICAL LANGUAGES & SOFTWARE

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### *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.
Python	Beginner: currently investing time to learn this language.

### *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](#).

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

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

DUTCH LANGUAGE PUBLICATIONS \* denotes peer reviewed publication

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- 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

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

LANGUAGES

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- Dutch Native speaker.
- English Highly advanced proficiency.
- German Independent user.
- Spanish Beginner.