

CV

Harald Weedon-Fekjær

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Languages: Norwegian and English
About: Born 27. Jun. 1971, Married, two children
Address: Tangen Terrasse 66, 1450 Nesoddtangen, Norway

Professional interests:

Statistical modeling and simulation, applied statistics,
teaching of statistics, statistical computing and software

Education:

- 2008 PhD in medical statistics, University of Oslo, Norway
Supervisors: Steinar Tretli (main), Odd O. Aalen, Bo H. Lindqvist and Lars H. Vatten
- 1996-1999 Master thesis in mathematical statistics, University of Oslo, Norway
(1995-1996: 16 months civil service and subsequent jobs Statistics Norway)
- 1990-1994 Bachelor degree, University of Oslo, Norway (+ ½ year additional courses)
Subjects: Mathematics, statistics, informatics and some macro economy

Plus eight additional statistical courses, totaling 24 full days (excluding compulsory PhD course)

Main positions after master degree:

- 2013 - *Researcher / Biostatistician,*
Oslo Center for biostatistics and epidemiology [OCBE], *Oslo University Hospital*
(OCBE is a shared University of Oslo and Oslo University Hospital biostatistics center)
- 2012 – 2013 Researcher, Norwegian University of Science and Technology [NTNU] and
University of Oslo (Department of Public Health and General Practice / Department of Biostatistics)
- 2009 - 2012 Post-doc researcher, Cancer Registry of Norway
- 2009 Visiting research fellow Harvard University / Dana-Farber Cancer Institute, autumn 2009
(financed by Norwegian Cancer Society and Dana-Farber Cancer Institute)
- 2008 Researcher, Cancer Registry of Norway
- 2003-2007 Worked with my Ph D. and other research projects at the Cancer Registry of Norway
(with 5.5 months break for parental leave. PhD financed by Norwegian Cancer Society)
- 2000-2002 50 % position: Researcher, Cancer Registry of Norway
50 % position: University of Oslo; Teaching statistics over Internet
- 1999-2000 Research assistant, University of Oslo (Teaching statistics over Internet)

Publications:

Have published 47 original research papers in international peer reviewed journals, plus four articles in Norwegian, two international scientific letters, one commentary and two software packages including documentation. Among the original research paper there are seven as main author, one as main PhD supervisor, 30 articles focusing on the applications of statistics, 9 articles focusing on statistical theory and six with shared focus. As of May 2020, the articles are cited 907 times according to ISI Web of Knowledge (43 internal citations), and the estimated mean "individual paper impact factor" is 5.4. (See also full publication list)

Selected publications:

1. "Modern mammography screening and breast cancer mortality: population study", Weedon-Fekjær et. al., BMJ 2014
2. "Understanding recent invasive breast cancer incidence trends using Age-Period-Cohort analysis and registry data on mammography screening and hormone treatment use", Weedon-Fekjær et. al., BMJ 2012
3. "Breast cancer tumor growth estimated through mammography screening data", Weedon-Fekjær et. al., Breast Cancer Research 2008 (Among the journal's 10 most accessed articles ever; Per 2014-12 no. 8 with 49 988 accesses)

Awards and honors:

- "Breast cancer tumor growth estimated through mammography screening data" by Weedon-Fekjær et. al. was selected as article of the year 2008 by the Norwegian Epidemiological Association.
- PhD opponent / external examiner :
 - Karolinska Institutet, Stockholm, Sweden (2018 for biostatistician Linda Abrahamsson)
- Invite international talks with full coverage of costs:
 - Middle East Cancer Consortium [MECC], Ankara, Turkey (2014)
 - McGill University, Montreal, Canada (2014)
 - Copenhagen University, Denmark (2015)

Teaching experience:

- Statistical consulting and supervision, Oslo University Hospital, University of Oslo and Vestfold Hospital, 2013- (Have per 2017-03 consulted on 118 project, for 103 researches, wide range of methods and research topics)
- Lectures at Faculty of Medicine PhD course in applied regression analysis, University of Oslo, 2010 -2017
- Regularly presentations ("short courses") of common statistical methods, Oslo University Hospital and Vestfold Hospital, 2013-2015
- Co-supervised one University of Oslo medical research line student (2015), plus master students at Norwegian University of Science and Technology and University of Iceland
- Have held presentations at four international conferences
- Have given lectures in both basic statistics and advanced survival analysis including the use of several statistical packages; STATA, SPSS, SamplePower and Minitab
- LECTURED in the use of additive hazard regression at "Statistical Practice in Epidemiology for Statisticians", Finland, 2000
- Developed several Internet based courses in statistics, University of Oslo & StatiNet AS, 1998-2002
- Substitute teacher plenary lectures for medicine, odontology and nutrition students, University of Oslo, 1998
- LECTURED and tutored in statistics for medicine, odontology and nutrition students, University of Oslo, 1995-1997, including "Oracle service" in statistics

Programming, computing experience and statistical models:

- Have comprehensive computer knowledge (Windows, Mac and Linux), including considerable programming experience and experience from both server administration and user support.
Have in depth practical experience in International distance collaboration using webconference software.
- Extensive experience in different statistical programming languages (R, Python) and programs (STATA, SPSS, SAS).
Some general programming languages experience (Python plus some JavaScript, C, C#, Java and Julia).
- Is fluent in the statistical R language, including building of graphical interfaces and interactive web applications, use of databases / SQL, integration of C-code, R Markdown and development of formal packages.
- Broad and in-depth knowledge of a wide range of different statistical analysis methods
(including Maximum likelihood estimation, simulations, resamples techniques like bootstrap and cross validation, linear regression, generalized linear models including logistic and poisson regression, mixed effects models for repeated measurements, nonlinear regression, splines regression, autoregressive regression for time series, regularization techniques in regression analysis, survival analysis including cox regression with updated variables and frailty effects, neural networks, Bayesian Markov chain Monte Carlo - MCMC, multivariate chained imputation equations - MICE, meta-analysis, nonparametric statistics etc.)

Organizational, international and commercial experience:

- Advisory board Eu-topia European Union (Horizon2020 program) research project 2016-2020 (eu-topia.org)
- Part of USA National Cancer Institute sponsored "Cancer Intervention and Surveillance Modeling Network" (CISNET) collaboration with peers/collaborators at Harvard University (2010-2020)
- Have organized two full day seminars (2007 & 2008)
- Participated in several internal committees regarding IT-solutions at the Cancer Registry of Norway and University of Oslo
- Referee for Statistics in Medicine, BMJ, Cancer, Biometrical Journal and "Norsk Epidemiologi".
- External examiner of a master thesis in statistics at Universality of Oslo (2009)
- Norwegian Cancer Registry representative in the Norevent workgroup 2002-2005
Norevent, which later became BMMS, was a research collaboration selected as one of ten prioritized areas at the Oslo University's Medical faculty. Was the main organizer of one full day seminar, contact person for one visiting Pd. D. student (tree mouths) and participated in the organization of one international seminar, three local full day seminars, four advanced statistical courses (lectured at one) and several shorter seminars.
- Started StatiNet A/S together with prof. Petter Laake in 2002, working (mainly) with distance teaching in statistics. Participated as a Member in the Board and took part in the day to day management of the company, including the employment process of two part time employees. The company was sold to Smerud Medical Research A/S in 2003.
- Other organization experience:
Considerable teaching experience also outside statistics; Skiing instructor (Level 1 approved), sea kayak instructor (Level 1 approved), glacier guide (NFF) and tennis instructor (Level 1 approved), including guide/instructor at 34 overnight tours for the University of Oslo student's mounting group (1992-2001). Leader of Oslo student's mounting group 1994-1996.

References:

Arnoldo Frigessi, professor and leader of OCBE, University of Oslo and Oslo University Hospital, Norway
Sandra J. Lee, Senior researcher, Dana-Farber Cancer Institute and Harvard University, Boston, USA
Lars Johan Vatten, professor, Norwegian University of Science and Technology [NTNU], Norway
Steinar Tretli, researcher Cancer Registry of Norway and professor II NTNU, Norway
Odd Aalen, professor, University of Oslo, Norway