

CURRICULUM VITAE

Contact Details

Name: dr. D. Veen (Duco)
Address: Padualaan 14, 3584CH Utrecht
Email: d.veen@uu.nl
Telephone: +31(0)30 253 4547



Relevant Working Experience

12/2019 – 08/2020	Postdoc Utrecht University, Faculty of Social Sciences, Department of Methodology & Statistics Continuation of research in Bayesian statistics.
12/2019 – 04/2020	Scientific Project Manager University Medical Center Utrecht Scientific project manager under Rick Grobbee, assisting in setting up a collaborative effort on artificial intelligence for health between four major Dutch academic institutions.
8/2016 – 12/2019	PhD Candidate Utrecht University, Faculty of Social Sciences, Department of Methodology & Statistics Alternative Information: Bayesian Statistics, Expert Elicitation and Information Theory in the Social Sciences (link). Dissertation written under the supervision of Rens van de Schoot.
2/2019 - 4/2019	Visiting Researcher Columbia University, Stan Development Team, Bob Carpenter Work on annotation models with Bob Carpenter and development of the shinystan R package with Jonah Gabry.
9/2015 - 5/2016	Internship ProfitWise International Collaborating on the development of new statistical, business analytical, methods. After the development of the new methods we conducted studies at a staffing company and a large financial institution to test the methods that resulted from the collaboration.
9/2015 - 12/2015	Student Assistant for Research Master Course Survey Data Analysis Utrecht University & University of Twente Assisting in the structuring of practical's and teaching in the form of supporting sessions for the students in which they can ask questions about lectures and practical's.
6/2015 – 7/2015	Data Analyst University of Twente, Faculty of Behavioural, Management and Social Sciences, Department of Research Methodology, Measurement and Data Analysis Multilevel analysis on ICILS 2013 data using HLM software for Kennisnet foundation (Dutch expertise center on ICT in education).

Education

2014 – 2016	Research Master - Methodology and Statistics in the behavioral, social and biomedical sciences (MSc) - Cum Laude
-------------	---

Utrecht University

Courses: Survey data analysis, Multivariate statistics, Fundamentals of statistics, Computational inference with R, Psychometrics, Introduction to multilevel and structural equation modelling, Bayesian statistics, Clinical research designs, elective: survey track. Average grade 8,13 (GPA = 4.0)

2010 – 2014

Bachelor Psychology (BSc)

University of Twente

Minor: Origins (Cosmology, Biological evolution and Philosophy of Awareness)

Bachelor Thesis: “*Multivariate analysis for using the Crosswise- and Triangular method*” (These are randomized response data collection methods, [link](#))

Certificates

2016-2020

Interuniversity Graduate School of Psychometrics and Sociometrics

Successful completion of graduate school program

2018

What is psychometrics

University of Amsterdam, The Netherlands, 22-24 May 2018

2017

Advanced course on using Mplus

Utrecht Summer School, Utrecht University, Utrecht, 10-14 July

Transparency in Science

University of Groningen, 19-20 April

Introduction to Bayesian Networks and BayesiaLab

Paris, 21-23 March

Start to Teach

Utrecht University, March 10

Statistical Learning

Leiden University, 25-27 January

2016

Optimization and Numerical Methods in Statistics

KU Leuven, 15-16 November

Sixth Annual JAGS and WinBUGS Workshop Bayesian Modeling for Cognitive Science

University of Amsterdam, 15 - 19 August

2015

Finance for Non-Financial Professionals

University of California, Irvine ([link](#))

Fundamentals of Management

University of California, Irvine ([link](#))

Professional

Development

2016

Covey Training - De Zeven Eigenschappen van Effectief Leiderschap

Rotterdam, December 9

Publications

Academic

Publications

2019

Veen D., & Klugkist, I., (2019) Standard Errors, Priors, and Bridge Sampling: A Discussion of Liu et al. *Journal of the Korean Statistical Society*.

de Klerk, M., Veen, D., Wijnen, F. & de Bree, E. (2019). A Step Forward: Bayesian Hierarchical Modelling as a Tool in Assessment of Individual Discrimination Performance. *Infant Behavior and Development*.

Meershoek, A.J.A., de Vries, E.E., Veen, D., den Ruijter, H.M., & de Borst, G.J. (2019). Meta-analysis of the outcomes of treatment of internal carotid artery near occlusion. *British Journal of Surgery*, 106(6), 665-671.

- Veen, D., Stoel, D., Schalken, N., Mulder, K., & van de Schoot, R. (2019). Correction: Veen, D.; Stoel, D.; Schalken, N.; Mulder, K.; Van de Schoot, R. Using the Data Agreement Criterion to Rank Experts' Beliefs. *Entropy* 2018, 20, 592. *Entropy*, 21(3), 307.
- 2018 Veen, D., Stoel, D., Schalken, N., Mulder, K., & van de Schoot, R. (2018). Using the Data Agreement Criterion to Rank Experts' Beliefs. *Entropy*, 20(8). Doi: 10.3390/e20080592
- Fox, J.-P., Veen, D., & Klotzke, K. (2018). Generalized Linear Mixed Models for Randomized Responses. *Methodology*. <http://dx.doi.org/10.1027/1614-2241/a000153>
- 2017 Veen, D., Stoel, D., Zondervan-Zwijnenburg, M. & van de Schoot, R. (2017) Proposal for a Five-Step Method to Elicit Expert Judgment. *Front. Psychol.* 8:2110. doi: 10.3389/fpsyg.2017.02110
- Under review van de Schoot, R., Winter, S., Griffioen, E., Grimmelikhuijsen, S., Arts, I., Veen, D., & Tummers, L. (2020). *Using Questionable Research Practices to Survive in Academia*. (manuscript under review).
- Veen, D., Egberts, M. R., van Loey, N. E. E., & van de Schoot, R. (2020) *Expert Elicitation in the Social Sciences: The case of Posttraumatic Stress Symptoms Development in Children with Burn Injuries*. (manuscript under review).
- Schat, E., van de Schoot, R., Kouw, W. M., Veen, D., & Mendrik, A. M. (2020) *The Data Representativeness Criterion: Predicting the Performance of Supervised Classification Based on Data Set Similarity*. (manuscript under review).
- Book Chapters**
- 2020 Veen, D., & Egberts, M. R. (2020). The importance of collaboration in Bayesian analyses with small samples. In R. Van de Schoot & M. Miočević (Eds.), *Small sample size solutions: A guide for applied researchers and practitioners*: Routledge.
- Van de Schoot, R., Veen, D., Smeets, L., Winter, S. D., & Depaoli, S. (2020). A tutorial on using the WAMBS-checklist to avoid the misuse of Bayesian statistics. In R. Van de Schoot & M. Miočević (Eds.), *Small sample size solutions: A guide for applied researchers and practitioners*: Routledge.
- Technical Report**
- 2015 Luyten, H., Veen, D. & Meelissen, M.R.M. (2015). *De relatie tussen leerling- en schoolkenmerken en digitale geletterdheid van 14-jarigen: secundaire analyses op de data van ICILS-2013*. Enschede: Universiteit Twente ([link](#))
- Software**
- 2018 Veen, D., Schalken, N., & van de Schoot R. (2018). DAC: Calculating Data Agreement Criterion Scores to Rank Experts Based on Their Beliefs. R package version 0.1.1. <https://CRAN.R-project.org/package=DAC>
- Veen, D. (2018). Effects-Coding: Calculate your own Confirmatory Factor Analysis using Effects Coded parametrization. Retrieved from <https://dveen.shinyapps.io/Effects-Coding/>
- Veen, D. (2018). Application for education: demonstrate sampling distributions for correlations. Retrieved from <https://utrecht-university.shinyapps.io/samplingcorrelations/>
- Veen, D. (2018). Application for education: demonstrate correlation and relation with regression. Retrieved from <https://utrecht-university.shinyapps.io/correlation/>

- 2017 Veen, D. (2017). Five-Step Method Elicitation App. Retrieved from <https://utrecht-university.shinyapps.io/elicitation/>
- Veen, D. (2017). Kullback-Leibler Divergence explorer with (skewed) normal distributions. Retrieved from <https://utrecht-university.shinyapps.io/klapp>
- 2016 Fox, J-P., Klotzke, K., & Veen, D. (2016). GLMMRR: Generalized Linear Mixed Model (GLMM) for Binary Randomized Response Data. R package version 0.2.0. Available from <https://CRAN.R-project.org/package=GLMMRR>

Presentations

Invited

- 2019 Veen, D. (2019, October). On shinystan 3.0. Presentation delivered at the Second Dutch Stan meetup, Dutch Healthcare Authority, Utrecht, the Netherlands
- Veen, D. (2019, April). On expert elicitation and evaluation. Presentation delivered at statistics student seminar, Columbia University, New York, NY, USA.
- 2018 Meershoek, A.J.A., Veen, D. (2018, May). Duo presentation: Treatment of internal carotid artery NEar occlusiON (NEON study): An individual patient data meta-analysis. Presentation delivered at research meeting of UMC Utrecht Department of Vascular Surgery, Utrecht, the Netherlands.
- Veen, D. (2018, February). On Using Expert Knowledge as Prior Information. Presentation delivered at Statistics Netherlands (CBS), Heerlen, the Netherlands.

International

- 2019 Veen, D., Egberts, M. & van de Schoot, R. (2019, May). On Elicitation of Prior Information for Latent Change Analysis. Part of the symposium entitled, "Risks of Default Priors in Bayesian Structural Equation Models with Small Samples and Two Approaches on How to Avoid Those Risks" at the 31st Association for Psychological Science (APS) annual convention, Washington, D.C., USA.
- 2018 Egberts, M., Veen, D., van de Schoot, R. & van Loey, N. (2018, August). Relating the development of maternal Post-Traumatic Stress to Health Related Quality of Life of children with severe burn injuries. Poster presented at StanCon 2018, Helsinki, Finland.
- Veen, D., Klaassen F. (2018, July) Duo presentation: On reasons to use subjective Bayes. Presentation delivered at VIII European Congress of Methodology. Part of the symposium entitled, "Applying Subjective Bayes to Real Life Data", Jena, Germany.
- Veen, D., Stoel, D., Schalken, N. & van de Schoot, R. (2018, July). Using the Data Agreement Criterion to Rank Experts' Beliefs. Presentation delivered at Bayesian Young Statisticians Meeting (BaYSM) 2018, Coventry, Great Britain.
- Egberts, M. & Veen, D. (2018, March) Duo presentation: Increasing Power of Statistical Analyses Through Collaboration. Presentation delivered at Small Sample Size Solutions (S⁴) Conference, Utrecht, the Netherlands.
- de Klerk, M. & Veen, D. (2018, March) Duo presentation: Improving the Assessment of Individual Phoneme Discrimination Performance. Presentation delivered at Small Sample Size Solutions (S⁴) Conference, Utrecht, the Netherlands.
- 2017 Veen, D., van Loey, N.E.E., van Baar, A.L., Wijnen, F.N.K. & van de Schoot, R. (2017, August). Eliciting and Using Expert Information in Latent Growth Curve Models.

Poster presented at 18th European Conference on Developmental Psychology, Utrecht, the Netherlands.

Veen, D., Izeboud, E. & van de Schoot, R. (2017, May). Systematic Review of Elicitation Software: Expert Knowledge as a Source of Data. Part of the symposium entitled, “Experts and Animals: How Can They Help Us?” at the 29th Association for Psychological Science (APS) annual convention, Boston, MA, USA.

Veen, D., Stoel, D., & van de Schoot, R. (2017, May). Using the Data Agreement Criterion to Rank Experts’ Beliefs. Part of the symposium entitled, “What the Dutch can do with prior information (and you too)” at the 2017 Modern Modeling Methods (M3) Conference, Storrs, CT, USA.

National

2019

Veen, D., Egberts, M. & van de Schoot, R. (2019, June). On Elicitation of Prior Information for Latent Change Analysis. Presentation delivered at 34th IOPS Summer Conference, Utrecht, the Netherlands.

2018

Veen, D. & van de Schoot, R. (2018, June). How understanding prior-data compromise can lead to sample size determination. Poster presented at 33rd IOPS Summer Conference, Amsterdam, the Netherlands.

2016

Veen, D., van Loey, N.E.E., van Baar, A.L., Wijnen, F.N.K. & van de Schoot, R. (2016, November). Eliciting and Using Expert Information in Latent Growth Curve Models: Research Plan. Poster presented at VNOP-CAS-ISED research days 2016, Leiden, the Netherlands.

Institutional

2018

Veen, D. & de Klerk, M. (2018, July). Real data application: Bayesian Hierarchical Modelling as a Tool in Assessment of Individual Discrimination Performance. Presentation delivered at Utrecht University Summer school: Advanced Multilevel Analysis, Utrecht, the Netherlands.

Veen, D. (2018, January). The Effects of Using Different MCMC Samplers. Presentation delivered at Utrecht University for the Bayesian Statistics working group, Utrecht, the Netherlands.

2017

Veen, D. (2017, June). Expert Knowledge as a Source of Data. Presentation delivered at Utrecht University at the 1st Experts Data (Dis)Agreement working group meeting, Utrecht, the Netherlands.

2016

Mulder, K.T., Veen, D. (2016, October). Bayes Meeting Default Priors. Presentation delivered at Utrecht University for the Bayesian Statistics working group, Utrecht, the Netherlands.

Veen, D., Stoel, D., van de Schoot, A.G.J. (2016, September). Using the Data Agreement Criterion to Rank Experts’ Beliefs. Presentation delivered at Utrecht University for the Bayesian Statistics working group, Utrecht, the Netherlands.

Grants

2017

Education Incentive Funds - €14,300

Development of Shiny applications for educational purposes

Miočević, M., Aarts, E., Klaassen, F., Lek, K.M., Mulder, K.T., Namesnik, K.T., Veen, D., Zondervan-Zwijnenburg, M.A.J.

Awards

2017	The EADP/ERU Best Poster Award Received for the poster presented at the 18 th European Conference on Developmental Psychology, Utrecht, the Netherlands.
------	---

Teaching Experience

Courses

2019	South Africa Stats Camp Training Seminar Hammanskraal, Gauteng Province, South Africa Utrecht University Summer school: Statistical Programming with R Utrecht University – Practical's Utrecht University Summer school: Introduction to Structural Equation Modeling using Mplus Utrecht University – Lecturer
2018	Utrecht University Summer school: Statistical Programming with R Utrecht University – Practical's Methoden, Technieken en Statistiek 3 (Bachelor) Utrecht University – Seminars
2017	Methoden, Technieken en Statistiek 1 (Bachelor) Utrecht University – Seminars and Practical's Methoden, Technieken en Statistiek 3 (Bachelor) Utrecht University – Seminars
2016	Methoden en Statistieken van Sociaal Wetenschappelijk Onderzoek 2 (pre-master) Utrecht University – Practical's Methoden, Technieken en Statistiek 1 (Bachelor) Utrecht University – Seminars and Practical's
2015	Survey Data Analysis (Research Master) Utrecht University – Q&A Sessions

Thesis Supervision

2017-2018	Schalken, N. Research Master Thesis Schat, E. Research Master Thesis
2015	Klotzke, K. Bachelor Thesis

Professional Services

Ad-Hoc Reviewer

2019	Statistics in Transition new series
2017	European Journal of Developmental Psychology

Software Proficiency

Statistical Software

Advanced:	R including rstan, lavaan, blavaan, lme4 and shiny HLM, SPSS, LaTeX, <i>Mplus</i>
Basic/Intermediate:	OpenBugs

Professional Affiliations

2018 - present	Open Science Community Utrecht
2017 - 2018	European Association of Developmental Psychology (EADP)
2017 - 2018	The International Society for Bayesian Analysis (ISBA)
2017	The Econometric Society

2017, 2019
2016 - present

Association for Psychological Science (APS)
Interuniversity graduate school of Psychometrics and Sociometrics (IOPS)