

Gerko Vink

December 2018

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UTRECHT UNIVERSITY
Department of Methods and Statistics
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Education

- 2015 **PhD in Statistics**, *Utrecht University*, Utrecht, Defended on 13 March 2015.
Title of dissertation: *Restrictive imputation of incomplete survey data*. [pdf](#)
- 2009 **MSc Statistics in Psychology (with honors)**, *Leiden University*, Leiden.
- 2008 **BSc in Psychology**, *Leiden University*, Leiden.
- 2005 – 2008 **Photography**, *Royal Academy of Arts*, The Hague.

Professional experience

- 2015 – now **Assistant Professor**, *Department of Methods and Statistics*, Utrecht University.
August 2015 - present
- 2016 – 2017 **Adjunct Associate Research Scholar**, *Applied Statistics Center*, Columbia University, New York.
February 2016 - January 2017
- 2014 – 2015 **Postdoctoral Fellow**, *Department of Methods and Statistics*, Utrecht University.
September 2014 - July 2015
- 2012 – 2014 **Lecturer [.5 fte]**, *Department of Methods and Statistics*, Utrecht University.
September 2012 - August 2014
- 2012 – 2014 **AIO (doctoral candidate) [.5 fte]**, *Department of Methods and Statistics*, Utrecht University, and *Department of Methodology and Quality*, Statistics Netherlands (CBS).
September 2012 - August 2014
- 2009 – 2012 **AIO (doctoral candidate)**, *Department of Methods and Statistics*, Utrecht University, and *Department of Methodology and Quality*, Statistics Netherlands (CBS).
September 2009 - August 2012
- 2008 – 2009 **Graduate Teaching Assistant**, *Department of Methods and Statistics*, Utrecht University, February 2008 - August 2009.

Management positions

- 2017 – now **PhD counselor (mentor)**, *Department of Methodology and Statistics*, Faculty of Social Sciences, Utrecht University.

- 2015 – now **Educational Advisor**, *Programme Advisory Committee*, Research master program *Methodology and Statistics for the Behavioural, Biomedical and Social Sciences*, Faculty of Social Sciences, Utrecht University.
- 2012 – now **Project Coordinator**, *Interactive digital education*, Research master program *Methodology and Statistics for the Behavioural, Biomedical and Social Sciences*, Faculty of Social Sciences, Utrecht University.
- 2012 – 2016 **Student counselor (tutor)**, Research master program *Methodology and Statistics for the Behavioural, Biomedical and Social Sciences*, Faculty of Social Sciences, Utrecht University.
- 2013 – 2016 **Coordinator**, *Minor Methodology and Statistics in the Social and Behavioural Sciences*, Faculty of Social Sciences, Utrecht University.
- 2012 – 2015 **Educational Representative**, *Educational Advisory Committee*, Research master program *Methodology and Statistics for the Behavioural, Biomedical and Social Sciences*, Faculty of Social Sciences, Utrecht University.

Received funding

- 2014 **Investigator**, *Multiple imputation of Parent Management Training Oregon (PMTO) data*, with Stef van Buuren (UU/TNO) for €12,000 (my share: €6,000), Maastricht University, the Netherlands.
November 2014 - December 2014
- 2013 **Investigator**, *Multilevel Bayesian estimation of multiply imputed social-educational advantage scores over time*, with Stef van Buuren (UU/TNO) for €42,477 (my share: €21,238.50), Australian Curriculum, Assessment and Reporting Authority, Sydney, Australia.
March 2013 - August 2013
- 2012 **Investigator**, *Multiple imputation of large register data with multilevel structures*, with Stef van Buuren (UU/TNO) for €53,503 + €5,000 bonus (my share: €29,251.50), Australian Curriculum, Assessment and Reporting Authority, Sydney, Australia.
August 2012 - December 2012

Relevant professionalisation

- 2016 **Big Data and Social Analytics**, *Massachusetts Institute of Technology*, Cambridge, MA, USA.

Teaching experience

Undergraduate courses

- *2015 – now Missing Data Theory and Causal Effects, Utrecht University [* Course coordinator]
- 2018 Analysis of Behavioural Data, University College Utrecht
- 2016 – 2018 Methods & Statistics 2, Utrecht University
- 2012 – 2018 Conducting a Survey, Utrecht University
- 2011 – 2015 Applied Multivariate Statistics, University College Utrecht

2013 Methods & Statistics I, Utrecht University
2013 Ondersteuning Leeronderzoek, Utrecht University
2009 – 2011 Methods & Statistics I, University College Utrecht
2008 – 2009 Inleiding in de Methoden en Technieken, Leiden University
2008 – 2009 Psychometrie, Leiden University
2008 – 2009 Experimenteel en Correlationeel Onderzoek, Leiden University
2008 – 2009 Toetsende statistiek, Leiden University
2008 – 2009 Multivariate Data Analyse, Leiden University

Graduate courses

*2017 – now Markup Languages and Reproducible Programming in Statistics, Utrecht University
[* Course coordinator]
2013 – now Master Thesis Supervision, Utrecht University
2012 – 2016 Research Seminar I, Utrecht University
2014 Research Seminar II, Utrecht University
2012 – 2015 Statistical Programming in R elective course, Utrecht University
2009 – 2013 Imputation Techniques, Utrecht University
2012 Statistical Programming in R, Utrecht University
2009 Applied Multivariate Data Analysis, Leiden University

Post-graduate courses

2016 Multiple Imputation in Practice, Utrecht University [Course coordinator]
2013 Applied Multiple Imputation using SPSS and R, Utrecht University

Summerschool courses

2016 – now Data Science: Multiple Imputation in Practice, Utrecht University [Course coordinator]
2015 – now Data Science: Statistical Programming in R [Course coordinator]
2018 Advanced Multilevel Analysis, Utrecht University
2014 – 2016 Advanced Issues in Survey Design and Analysis
2013 Survey Research: Statistical Analysis and Estimation

Supervised students

2018 Arjan Huizing Graduate thesis
2016 Rianne Schouten. Graduate thesis
2016 Xynthia Kavelaars. Graduate thesis
2016 Arnold Lau (Columbia University). Graduate thesis
2015 Lianne Rijnveld. Research Master paper
2015 Wouter Smink. Graduate thesis
2015 Tom Bergkamp. Undergraduate thesis
2015 Henk Jan Stevens. Graduate thesis
2014 Bo Kuiper. Graduate thesis

2014 Laura Boeschoten. Graduate thesis

Phd students

2018 Mingyang Cai [ongoing project]

2017 Rianne Schouten [ongoing project]

Invited courses / workshops

2018 Introduction to Statistics with R, September 3-5, Utrecht

2018 Introduction to Statistics with R, July 2-4, Utrecht

2017 Introduction to R: How to get started, August 28, Utrecht

2017 Multiple imputation in R. RECSM / Pompeu Fabra, June 18-29, Barcelona, Spain.

2017 Statistical programming in R. NorthWest University, March 14-17, Vanderbijlpark, South Africa.

2017 Multiple imputation in practice [with Stef van Buuren]. ETH Zürich, February 23-24, Zürich, Switzerland.

2017 Missing value imputation [with Stef van Buuren]. University of Zürich, February 20-21, Zürich, Switzerland.

2016 Multiple Imputation in Practice. TU Berlin/Berlin HECOR [with Stef van Buuren], September 12-14, Berlin, Germany.

2015 Statistical programming with R. Radboud University, December 1, 2015, Nijmegen, the Netherlands.

2015 Applied multiple imputation in R [with Stef van Buuren]. Pre-conference course at the 2015 conference of the International Society for Clinical Biostatistics, August 23, 2015, Utrecht, the Netherlands.

2015 Handling missing data in R with MICE [with Stef van Buuren]. Tutorial course at the MissData conference. June 17, 2015, Rennes, France

2015 Applied multiple imputation with SPSS. Course within the Boerhaave Clinical Trials educational series. April 14, 2015, Leiden, the Netherlands

2015 Working with R: a full day crash-course. Pre-conference course for the 10th International Multilevel Conference, April 7, 2015, Utrecht, the Netherlands

2013 Incomplete data workshop: Flexible Imputation of Missing Data [with Shahab Jolani] , 1st Southern European Conference on Survey Methodology, December 2013, Barcelona, Spain

2013 Applied Multiple Imputation in R [with Stef van Buuren]. CE Course, Joint Statistical Meetings, Aug 4, 2013, Montreal, Canada

2013 Multiple imputation for multilevel data using MICE [with Stef van Buuren]. Pre-conference course. March 26, 2013, Utrecht

2011 Pre-conference workshop "How to deal with missing data". Mplus user conference, October 2011, Utrecht (with invited contributions by Stef van Buuren and Craig Enders [UCLA])

Invited presentations

- 2018 Leiden University, Methods & Statistics Alumni Event, November 22, Leiden, the Netherlands
- 2017 Tilburg University, Statistical colloquium, May 9, Tilburg, the Netherlands
- 2017 ETH Zürich, Statistical symposium, February 22, Zürich, Switzerland
- 2016 Joint Statistical Meetings, August 2016, Chicago, IL, USA, topic contributed session
- 2015 Social Sciences M&S Power Snacks, November 2015, Utrecht, the Netherlands
- 2014 Annual symposium of the Dutch-speaking platform for survey research, 19 May 2014, Amsterdam, the Netherlands
- 2013 Meeting on multiple imputation of multilevel data, June 2013, London, UK
- 2011 Second meeting of the Dutch Mplus users group, May 2011, Utrecht, the Netherlands
- 2011 ISED research dagen 2011, November 2011, Utrecht, the Netherlands

Contributed presentations

- 2015 10th International Multilevel Conference, April 2015, Utrecht, the Netherlands
- 2014 IOPS Graduate School Winter Conference, Amsterdam, the Netherlands
- 2014 Joint Statistical Meetings, August 2014, Boston, MA, USA
- 2014 European Congress of Methodology, July 2014, Utrecht, the Netherlands
- 2014 18th ISA world Congress of Sociology, July 2014, Yokohama, Japan
- 2013 1st Southern European Conference on Survey Methodology, December 2013, Barcelona, Spain
- 2012 Fifth European Congress of Methodology, July 2012, Santiago de Compostela, Spain
- 2010 CBS Methodologiedagen, Heerlen, the Netherlands

Review activities

- 2010 – now Recurring article and book reviewer for at least:
R Journal, PLOS one, Psychometrika, MDPI Data, European Journal on Criminal Policy and Research, Journal of Educational and Behavioral Statistics, CRC Press / Taylor & Francis, Springer, Psychological Test and Assessment Modeling, Survey Methodology, Statistica Neerlandica

Editorships

- 2016 – now Recurring article editor for Sage Open

Development

- 2017 – now BAMI: Benchmarking and Assessment for Multiple Imputation. Creator
- 2016 – now parLMICE in R. Author.
- 2016 – now ampute in R. Author.
- 2010 – now mice in R. Core Developer and GitHub Collaborator
- 2013 – 2015 correlate in R. Author

other Programming and Scripting experience: Python, R, Flash, HTML, C++, L^AT_EX

Publications

- [1] Schouten, R. M. and **Vink, G.** (2018). The dance of the mechanisms: How observed information influences the validity of missingness assumptions. *Sociological Methods & Research*. URL <https://doi.org/10.1177/0049124118799376>.
- [2] Schouten, R. M., Lugtig, P., and **Vink, G.** (2018). Generating missing values for simulation purposes: a multivariate amputation procedure. *Journal of Statistical Computation and Simulation*, pages 1–22. URL <https://doi.org/10.1080/00949655.2018.1491577>.
- [3] Reijntjes, A., Vermande, M., Olthof, T., Goossens, F. A., **Vink, G.**, Aleva, L., and van der Meulen, M. (2018). Differences between resource control types revisited: A short term longitudinal study. *Social Development*, 27(1):187–200.
- [4] **Vink, G.** and Van Buuren, S. (2017). mice: An approach to sensitivity analysis. https://gerkovink.github.io/miceVignettes/Sensitivity_analysis/Sensitivity_analysis.html.
- [5] **Vink, G.** and Van Buuren, S. (2017). mice: Imputing multi-level data. https://gerkovink.github.io/miceVignettes/Multi_level/Multi_level_data.html.
- [6] **Vink, G.** and Van Buuren, S. (2017). mice: Passive imputation and post- processing. https://gerkovink.github.io/miceVignettes/Passive_Post_processing/Passive_imputation_post_processing.html.
- [7] **Vink, G.** and Van Buuren, S. (2017). mice: The imputation and nonresponse models. https://gerkovink.github.io/miceVignettes/Missingness_inspection/Missingness_inspection.html.
- [8] **Vink, G.** and Van Buuren, S. (2017). mice: Algorithmic convergence and inference pooling. https://gerkovink.github.io/miceVignettes/Convergence_pooling/Convergence_and_pooling.html.
- [9] **Vink, G.** and Van Buuren, S. (2017). mice: Ad hoc methods and the mice algorithm. https://gerkovink.github.io/miceVignettes/Ad_hoc_and_mice/Ad_hoc_methods.html.
- [10] Boeschoten, L., **Vink, G.**, and Hox, J. (2017). How to obtain valid inference under unit non-response? *Journal of Official Statistics*, 33(4):963–978.
- [11] **Vink, G.** and van Buuren, S. (2017). micevignettes; flexible imputation with mice in r in a nutshell. <https://gerkovink.github.io/miceVignettes/>.
- [12] Schouten, R. and **Vink., G.** (2017). parlmice: faster, paralleler, micer. https://gerkovink.github.io/parlMICE/Vignette_parlMICE.html.
- [13] Schouten, R., Lugtig, P., Brand, J., and **Vink., G.** (2017). Generating missing values with ampute. <https://github.com/RianneSchouten/mice/tree/master/vignettes>.
- [14] Thijssen, J., **Vink, G.**, Muris, P., and de Ruiter, C. (2016). The effectiveness of parent management training—oregon model in clinically referred children with externalizing behavior problems in the netherlands. *Child Psychiatry & Human Development*, pages 1–15. doi: 10.1007/s10578-016-0660-5.

- [15] **Vink, G.**, Lazendic, G., and van Buuren, S. (2015). Partitioned predictive mean matching as a multilevel imputation technique. *Psychological Test and Assessment Modeling*, 57(4): 577–594.
- [16] Peeters, M., Zondervan-Zwijnenburg, M., **Vink, G.**, and van de Schoot, R. (2015). How to handle missing data: A comparison of different approaches. *European Journal of Developmental Psychology*, 12(4):377–394.
- [17] Sorbi, M., Kleiboer, A., van Silfhout, M., **Vink, G.**, and Passchier, J. (2015). Medium-term effectiveness of online behavioral training in migraine self-management: A randomized trial controlled over 10 months. *Cephalalgia*, 35(7):608–618.
- [18] **Vink, G.** (2015). *Restrictive Imputation of Incomplete Survey Data*. PhD thesis, Utrecht University.
- [19] **Vink, G.** and van Buuren, S. (2015). Multiple imputation of parent management training oregon model data. Technical report, Maastricht University.
- [20] **Vink, G.** and van Buuren, S. (2014). Pooling multiple imputations when the sample happens to be the population. *arXiv preprint arXiv:1409.8542*.
- [21] **Vink, G.**, Frank, L. E., Pannekoek, J., and van Buuren, S. (2014). Predictive mean matching imputation of semicontinuous variables. *Statistica Neerlandica*, 68(1):61–90.
- [22] **Vink, G.** and Van Buuren, S. (2013). Multiple imputation of squared terms. *Sociological Methods & Research*, 42(4):598–607.
- [23] **Vink, G.** and Van Buuren, S. (2013). Multiple imputation of longitudinal naplan data. Technical report, Australian Curriculum, Assessment and Reporting Authority.
- [24] **Vink, G.**, Hox, J. J. C. M., and van Buuren, S. (2013). Report on bayesian estimation of social educational advantage. Technical report, Australian Curriculum, Assessment and Reporting Authority.
- [25] **Vink, G.**, Hox, J. J. C. M., and van Buuren, S. (2013). Multiple imputation of the acara social educational advantage data. Technical report, Australian Curriculum, Assessment and Reporting Authority.
- [26] Banning, R. and **Vink, G.** (2010). Methoden en indicatoren voor het evalueren en beschrijven van controle- en correctieprocessen. CBS nota DMV-2010- 06-08-RBNG-GVNBK, Centraal Bureau voor de Statistiek.
- [27] **Vink, G.** (2007). Meervoudige beoordelaarsovereenstemming met cohen's kappa: Dubbel-codering van strategiegebruik en fouttypen bij vermenigvuldigingsopgaven in onafhankelijke databeoordelaarscombinaties. Technical report, Leiden University.