

# Gerko Vink

December 2019

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UTRECHT UNIVERSITY

Department of Methodology and Statistics

Padualaan 14, room B.110

Utrecht University

3584 CH Utrecht

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## Education

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

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## Professional experience

- 2015 – now **Assistant Professor**, *Department of Methodology 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 Methodology and Statistics*, Utrecht University.  
September 2014 - July 2015
- 2012 – 2014 **Lecturer [.5 fte]**, *Department of Methodology and Statistics*, Utrecht University.  
September 2012 - August 2014
- 2012 – 2014 **AIO (doctoral candidate) [.5 fte]**, *Department of Methodology and Statistics*, Utrecht University, and *Department of Methodology and Quality*, Statistics Netherlands (CBS).  
September 2012 - August 2014
- 2009 – 2012 **AIO (doctoral candidate)**, *Department of Methodology and Statistics*, Utrecht University, and *Department of Methodology and Quality*, Statistics Netherlands (CBS).  
September 2009 - August 2012
- 2008 – 2009 **Graduate Teaching Assistant**, *Department of Methodology and Statistics*, Leiden University, February 2008 - August 2009.

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## 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.

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## Received funding

- 2019 **Investigator**, *Multiple imputation of oil production rate time series*, For €5,000, TNO, the Netherlands.  
July 2019 - December 2019
- 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

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## Relevant professionalisation

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

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## 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

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### 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 Lisanne 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

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### Current Phd students

- 2019 Duco Veen [ongoing project]
- 2018 Mingyang Cai [ongoing project]

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### Past Phd students

- 2017 – 2019 Rianne Schouten

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### Invited courses / workshops

- 2019 Advanced Multilevel Imputation [with Stef van Buuren], 12th International Multilevel Conference, April 8, Utrecht
- 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 and keynotes

- 2019 University of Padua, Advances in Multilevel and Longitudinal Modelling, January 28, Padua, Italy
- 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, JRSS Series C, 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

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## Editorships

2016 – now    Recurring article editor for Sage Open

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## 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<sup>A</sup>T<sub>E</sub>X

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## 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](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](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](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](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](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](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](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.