Gerko Vink

May 2020

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UTRECHT UNIVERSITY
Department of Department of Methodology and Statistics
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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.

--- Professional experience

2019 – now	**Assistant Professor UD1**, *Department of Methodology and Statistics*, Utrecht University. September 2019 - present
2015 – 2019	**Assistant Professor UD2**, *Department of Methodology and Statistics*, Utrecht University. August 2015 - August 2019
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

Management positions

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

2012 – 2019 **Project Coordinator**, *Interactive digital education*, Research master program *Methodology and Statistics for the Behavioural, Biomedical and Social Sciences*, Faculty of Social Sciences, Utrecht University.

2015 – 2018 **Educational Advisor**, *Programme Advisory Committee*, 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 – 2016 **Student counselor (tutor)**, Research master program *Methodology and Statistics for the Behavioural, Biomedical and Social 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 research funding $\geq$ €5.000

2020 **Project lead**, *Shinymice: model building and evaluation for multiple imputation*, For €25,000, June 2020 - December 2020.

2020 **Investigator**, *Machine Learning for Eye-tracking data*, For €15,000, DoY, Utrecht, the Netherlands.
February 2020 - December 2020

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

Total 36 month revenue: €274,064

2017-2019 **Revenue over the last 3 years**, *Combined for education, research and consultancy*, €274,064.
April 2017 - March 2020

2020 **Revenue over 2020**, *For research and consultancy pledged to date*, €44,000.
Jan 2020 - March 2020

2019 **Revenue over 2019**, *Combined for post-graduate education, research and consultancy*, €87,164.
April 2017 - March 2020

2018 **Revenue over 2018**, *Combined for post-graduate education and consultancy*, €71,250.
April 2017 - March 2020

2017 **Revenue over 2017**, *Combined for post-graduate education and consultancy*, €71,650.
April 2017 - March 2020

Relevant professionalisation

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

Teaching experience

Undergraduate courses

*2019 – now **Fundamental Techniques in Data Science**, *Utrecht University*, Course coordinator, rated 8.7/10.

*2015 – now **Missing Data Theory and Causal Effects**, *Utrecht University*, Course coordinator, rated 4.7/5.

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, rated 9.8/10.
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, rated 4.65/5.
*2015 – now	**Data Science: Statistical Programming in R**, *Utrecht University*, Course coordinator, rated 4.62/5.
2018	Advanced Multilevel Analysis, Utrecht University
2014 – 2016	Advanced Issues in Survey Design and Analysis
2013	Survey Research: Statistical Analysis and Estimation

Supervised students

2020	Jihane Cherif. Undergraduate Thesis
2019	Hanne Oberman. Graduate Thesis
2019	Lonneke Theeuwes. Undergraduate Thesis
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

Phd students

2018 – now	Mingyang Cai [ongoing project]
2016 – 2020	Duco Veen
2017 – 2019	Rianne Schouten

Invited courses / workshops

2020	Statistical Programming with R, Data Science Rijkstrainees, January 16, The Hague, the Netherlands.
2019	Statistical computation with R, Wageningen Economic Research, September 17; 24&25, The Hague, the Netherlands.
2019	Statistical programming with R, Wageningen Economic Research, September 3; 10&11, The Hague, the Netherlands.
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 CMstatistics, Advances in complex data modeling, December 16, London, United Kingdom

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, Springer Nature, PLOS one, Psychometrika, Sociological Methods and Research, Biometrics, JRSS Series C, MDPI Data, Biometrical Journal, 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, The Spanish Journal of Psychology, International Journal of Geo-Information

Editorships

2016 – now	Recurring article editor for Sage Open

Development

2018 – now	`SHINYmice`: Model building and evaluation for Multiple Imputation. Author.
2017 – now	`BAMI`: Benchmarking and Assessment for Multiple Imputation. Creator.
2016 – now	`parlMICE` in R. Creator.
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, HTML, C++, LaTeX, markdown.

Publications

[1] **Vink, G.** (2020). mice: Combining inferences after imputation with mice in r. *https://www.gerkovink.com/MiceVignettes/Combining_inferences.html*.

[2] **Vink, G.** and Van Buuren, S. (2019). The best prediction can be the worst imputation. *https://www.gerkovink.com/need_for_uncertainty/text1.html*.

[3] **Vink, G.** (2019). prepr: A self-paced guided crashcourse in basic scripting with r. *https://www.gerkovink.com/prepR*.

[4] 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`.

[5] 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`.

[6] 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.

[7] **Vink, G.** and Van Buuren, S. (2017). mice: An approach to sensitivity analysis. *https://www.gerkovink.com/MiceVignettes/Sensitivity_analysis.html*.

[8] **Vink, G.** and Van Buuren, S. (2017). mice: Imputing multi-level data. *https://www.gerkovink.com/MiceVignettes/Multi_level_data.html*.

[9] **Vink, G.** and Van Buuren, S. (2017). mice: Passive imputation and post- processing. *https://www.gerkovink.com/MiceVignettes/Passive_imputation_post_processing.html*.

[10] **Vink, G.** and Van Buuren, S. (2017). mice: The imputation and nonresponse models. *https://www.gerkovink.com/MiceVignettes/Missingness_inspection.html*.

[11] **Vink, G.** and Van Buuren, S. (2017). mice: Algorithmic convergence and inference pooling. *https://www.gerkovink.com/MiceVignettes/Convergence_and_pooling.html*.

[12] **Vink, G.** and Van Buuren, S. (2017). mice: Ad hoc methods and the mice algorithm. *https://www.gerkovink.com/MiceVignettes/Ad_hoc_methods.html*.

[13] 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.

[14] **Vink, G.** and van Buuren, S. (2017). micevignettes; flexible imputation with mice in r in a nutshell. *https://gerkovink.github.io/miceVignettes/*.

[15] Schouten, R. and **Vink., G.** (2017). parlmice: faster, paralleler, micer. *https://gerkovink.github.io/parlMICE/Vignette_parlMICE.html*.

[16] Schouten, R., Lugtig, P., Brand, J., and **Vink., G.** (2017). Generating missing values with ampute. *https://github.com/RianneSchouten/mice/tree/master/vignettes*.

[17] 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.

[18] **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.

[19] 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.

[20] 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.

[21] **Vink, G.** (2015). *Restrictive Imputation of Incomplete Survey Data*. PhD thesis, Utrecht University.

[22] **Vink, G.** and van Buuren, S. (2015). Multiple imputation of parent management training oregon model data. Technical report, Maastricht University.

[23] **Vink, G.** and van Buuren, S. (2014). Pooling multiple imputations when the sample happens to be the population. *arXiv preprint arXiv:1409.8542*.

[24] **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.

[25] **Vink, G.** and Van Buuren, S. (2013). Multiple imputation of squared terms. *Sociological Methods & Research*, 42(4):598–607.

[26] **Vink, G.** and Van Buuren, S. (2013). Multiple imputation of longitudinal naplan data. Technical report, Australian Curriculum, Assessment and Reporting Authority.

[27] **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.

[28] **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.

[29] 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-GVNK, Centraal Bureau voor de Statistiek.

[30] **Vink, G.** (2007). Meervoudige beoordelaarsovereenstemming met cohen's kappa: Dubbel-codering van strategiegebruik en fouttypen bij vermenigvuldigingsopgaven in onafhankelijke databeoordelaarscombinaties. Technical report, Leiden University.