

Gerko Vink

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UTRECHT UNIVERSITY
Department of Methodology and Statistics
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Professional experience

- 2020 – now **Associate Professor / Universitair Hoofddocent**, *Department of Methodology and Statistics*, Utrecht University
June 2020 - present
- 2015 – 2020 **Assistant Professor / Universitair docent**, *Department of Methodology and Statistics*, Utrecht University
September 2015 - May 2020
- 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

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

Management positions and appointments

- 2024 – now **Educational Management Team**, Methodology & Statistics, Utrecht University
- 2024 – now **Open Education Fellow**, School of Social and Behavioural Sciences, Utrecht University
- 2023 – now **General Management Team**, Methodology & Statistics, Utrecht University
- 2023 – now **Applied Data Science Taskforce**, Methodology & Statistics, Utrecht University
- 2020 – now **Programmaraad Applied Data Science**, Applied Data Science, Utrecht University
- 2020 – now **Coordinator ADS education**, School of Social and Behavioural Sciences, Utrecht University
- 2023 – now **Consortium leader**, Generative AI in Higher Education, Utrecht University
- 2017 – 2021 **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 funding \geq €5.000

- 2024 **Project co-lead**, *Getting the best predictions from complex data sets: Balancing scalability and interpretability*, Incentive Grant together with Sara van Erp for 1 PhD student, September 2024 - August 2028
- 2023 **Consortium Leader**, *USO Generative AI in Higher Education.*, Education Incentive Fund together with Karin van Es, Sergey Sosnovsky, Sjoerd Dirksen en Laurence Frank for €250,000, September 2023 - August 2025
- 2023 **Project co-lead**, *SynthEval: An R package for evaluating and improving the quality of synthetic data sets*, Open Science Fund for €15,000, September 2023 - August 2024
- 2023 **Project lead**, *Can an AI obtain a master's degree? An investigation into AI-assisted education in the MSBBSS Research Master's programme*, Educational Incentive Fund project at Utrecht University for €15,000, September 2023 - August 2024

- 2023 **Project lead**, *Mindless Mice: Multiple imputation without explicit model specification*, NWO Open Competition XS for €50,000, Aug 2023 - May 2024
- 2022 **Project member**, *Better Imputation by Generative Adversarial NeTworks (BIGANT)*., EWUU Alliance, For €49,250, Sept 2022 - August 2023
- 2022 **Project lead**, *Dessert: An R-package for standardized model evaluation*, For €15,000, Sept 2022 - August 2023
- 2022 **Project lead**, *KOE: Kenniscentrum Open Educatie. Faculty USO project*, For €24,000, September 2022 - December 2023
- 2022 **Consortium member**, *Education with professionals. USO project*, September 2022 - December 2023
- 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, 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 €58,503, Australian Curriculum, Assessment and Reporting Authority, Sydney, Australia
August 2012 - December 2012

Relevant professionalisation

- 2024 **Senior Qualification (SKOz)**, *Utrecht University*, Utrecht, NL
- 2022 **Supervising PhD students**, *Utrecht University*, Utrecht, NL
- 2022 **Didaktiek Onderwijs voor Professionals**, *Utrecht University*, Utrecht, NL
- 2021 **Academic Leadership for Associate Professors**, *Utrecht University*, Utrecht, NL
- 2020 **Corporate Entrepreneurship**, *Columbia Business School*, New York, NY, USA
- 2019 **Basic Teaching Qualification (BKO)**, *Utrecht University*, Utrecht, NL
- 2016 **Big Data and Social Analytics**, *Massachusetts Institute of Technology*, Cambridge, MA, USA

Teaching experience

Undergraduate courses

- 2019 – 2021 **Fundamental Techniques in Data Science**, *Utrecht University*, Course coordinator
- 2015 – 2021 **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
- 2021 – 2023 **Supervised Learning and Visualization**, *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
- 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 – 2021 **Data Science: Statistical Programming in R**, *Utrecht University*, 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

2024 Heleen Brüggem. Graduate Thesis
 2023 Vira Dvoriak. Graduate Thesis
 2023 Lianne Lageweg. Graduate Thesis
 2023 Jesse van der Wensch. Graduate Thesis
 2021 Thye Overmars. Graduate Thesis
 2021 Boy Remmelzwaal. Graduate Thesis
 2021 Maarten de Koning. Graduate Thesis
 2021 Evert-Jan van der Sluis. Graduate Thesis
 2021 Ernst Paul Swens. Graduate Thesis
 2021 Thom Volker. Internship Thesis
 2021 Anaïs Fopma. Graduate Thesis
 2020 Jihane Cherif. Undergraduate Thesis
 2020 Paulina von Stackelberg. Graduate 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 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

2021 – now Florian van Leeuwen [ongoing project]
 2021 – now Hanne Oberman [ongoing project]
 2018 – 2022 Mingyang Cai
 2016 – 2020 Duco Veen
 2017 – 2019 Rianne Schouten

Postdocs

2023 – 2024 Huma Shehwana
 2022 – 2023 Mingyang Cai

Invited courses / workshops

- 2023 – now Introductie Data Science processen, analyse en ethiek [with Iris Muis, Georg Krempf and Laurence Frank], IND Rijksoverheid, 21 december 2023, Utrecht, the Netherlands.
- 2022 - 2023 Artificial Intelligence for Managers [with Laurence Frank], Rijksoverheid, meerdere iteraties, Utrecht, the Netherlands.
- 2022 Creating synthetic data with mice in R [with Thom Volker], UMCU, 4 November 2022, Utrecht, the Netherlands.
- 2022 Inferential and predictive statistics and machine learning, Rabobank, 4-day course, Utrecht, the Netherlands.
- 2021 Data science and predictive machine learning, Erasmus Academy, 4-day course, Rotterdam, the Netherlands.
- 2020 Imputing health care data with mice in R [with Stef van Buuren], UMCU, 30 October 2020, Utrecht, the Netherlands.
- 2019 - 2023 Multiple imputation in practice [with Stef van Buuren], Data Science Rijkstrainees, The Hague, the Netherlands.
- 2019 - 2023 Statistical Programming with R, Data Science Rijkstrainees, 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

- 2024 Utrecht Young Academy, AI in Higher Education, December 12
- 2024 UU Teaching Fellows, AI in Higher Education, November 11
- 2024 CAT Student think tank, Challenges: AI in Higher Education, June 5, Utrecht, the Netherlands
- 2023 ITACOSM, Recent advances in (over)imputation with mice, June 7, Calabria, Italy
- 2023 Hoe onderwijs je de nieuwe student?, UU Onderwijsfestival [met Hanne ten Berghe], Utrecht, the Netherlands
- 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 manuscript and book reviewer for at least:
R Journal, Journal of Statistical Software, Springer Nature, PLOS one, Psychometrika, Sociological Methods and Research, Biometrics, JRSS Series C, Psych, Entropy, Data, MBR, Computational Statistics and Data Analysis, Nature Scientific Reports, 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

- 2010 – now `mice` in R. MICE core team member
- 2016 – now `ampute` in R. Author.
- 2017 – now BAMI: Benchmarking and Assessment for Multiple Imputation. Creator.
- 2018 – now SHINYmice: Model building and evaluation for Multiple Imputation. Author.
- 2022 – now `dessert` in R. Creator
- 2023 – now JASP. R developer
- 2016 – 2021 `parlMICE` in R. Creator. Now superceded by `mice::futuremice()`
- 2013 – 2015 `correlate` in R. Author.
- other Programming and Scripting experience: Python, R, HTML, C++, \LaTeX , markdown.