

# HANNE OBERMAN

Statistician, interdisciplinary, open scientist



I am very passionate about ‘dull’ or ‘difficult’ topics such as statistics, programming, and philosophy of science. I’m motivated to use my enthusiasm and expertise to improve the quality of academic research and education. I aspire to (help others to) solve complex real-world problems that require insights from many disciplines and methodologies.

## EXPERIENCE

• Junior assistant professor (PhD candidate and lecturer) <u>Methodology and Statistics</u>   Utrecht University   Utrecht   The Netherlands	2024-current
• PhD candidate <u>Methodology and Statistics</u>   Utrecht University   Utrecht   The Netherlands	2023-2024
• Research and education officer <u>Methodology and Statistics</u> and <u>Julius Center for Health Sciences and Primary Care</u>   Utrecht University   Utrecht   The Netherlands	2020-2023

## EDUCATION

• Graduate school <u>Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)</u>   IOPS   The Netherlands and Belgium	2023-current
• MSc <u>Methodology and Statistics for the Behavioural, Biomedical and Social Sciences</u>   Utrecht University   Utrecht   The Netherlands	2018-2020
• Post-graduate education <u>International Graduate Summer School of the Global Academy of Liberal Arts</u>   Concordia University   Montréal   Canada	2018
• Honours degree <u>Descartes College</u>   Utrecht University   Utrecht   The Netherlands	2016-2018
• BSc <u>Liberal Arts and Sciences</u>   Utrecht University   Utrecht   The Netherlands	2014-2018

## ANCILLARY POSITIONS

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| • Chair Faculty Open Science Team <a href="#">FOST</a>   Utrecht University   Utrecht   The Netherlands  | 2024-current |
| • Faculty ambassador <a href="#">Open Science Community Utrecht</a>   Utrecht   The Netherlands  | 2022-current |
| • Programme accreditation panel member <a href="#">Nederlands-Vlaamse Accreditatieorganisatie (NVAO)</a>   Research master programmes in the social and behavioural sciences   The Netherlands | 2021, 2023   |
| • Research assistant with <a href="#">Dong Nguyen</a> and <a href="#">Daniel Oberski</a>   Utrecht University   Utrecht   The Netherlands  | 2019-2020    |
| • Teaching assistant in <a href="#">Methodology &amp; Statistics</a> and <a href="#">Experimental Psychology</a>   Utrecht University   Utrecht   The Netherlands                              | 2017-2020    |
| • Representative in advisory bodies, e.g. student council <a href="#">Liberal Arts and Sciences</a>   Utrecht University   Utrecht   The Netherlands   | 2017-2022    |
| • Research internship with <a href="#">Merel van Goch</a>   Utrecht University   Utrecht   The Netherlands   | 2016-2017    |
| • Board member and committees for study association <a href="#">USLAS Atlas</a>   Utrecht University   Utrecht   The Netherlands   | 2014-2018    |

## GRANTS AND AWARDS

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| • Project, 'MICE ONLINE: A new service to solve missing data problems', <a href="#">Open Science Fund</a> , Utrecht University, Utrecht, The Netherlands  | 2023 |
| • Project, ' <a href="#">dessert</a> : an automated tool for transparent and reproducible scientific reporting', <a href="#">Open Science Fund</a> , Utrecht University, Utrecht, The Netherlands | 2022 |
| • Best poster, 'Will You Publish Null Papers?', Social and Behavioural Sciences Graduate Poster Fair, Utrecht University, Utrecht, The Netherlands  | 2019 |
| • Fellowship award, Global Academy of Liberal Arts Annual Conference 'Creativity and the Liberal Arts' (HUMA 887), Concordia University, Montréal, Canada   | 2018 |

## CONFERENCES

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- Tutorial, 'Open (your) Science Using the Statistical Package [JASP](#)', [EMLAR](#), Utrecht, The Netherlands 2024
- Presentation, 'Data visualization for incomplete datasets in R', Annual Meeting [VVSOR](#), Utrecht, The Netherlands 2024
- Presentation, 'Towards a standardized evaluation of imputation methodology: potential pitfalls in simulation studies and a proposed course of action', European Congress of Methodology [EAM](#), Ghent, Belgium 2023
- Poster presentation, 'Visualization of incomplete and imputed data with the R package [ggmice](#)', Summer Conference [IOPS](#), Tilburg, The Netherlands 2023
- Late-breaking work in progress, 'Visualizing Uncertainty Due to Missing Data', IEEE VIS workshop 'VisComm: Visualization for Communication' [VIS2021](#), online 2021
- Community led session, 'Pre-registration of Data Science Studies', Open Science Festival [OSF2021NL](#), online 2021
- Presentation, 'Missing the Point: Non-Convergence in Iterative Imputation Algorithms', International Conference on Machine Learning (ICML) workshop 'ARTEMISS: The Art of Learning with Missing Values' [ICML](#), online 2020
- Pre-study poster presentation, 'ShinyMICE: Developing a Missing Data Evaluation Suite (Master's Thesis Methodology and Statistics)', Society for the Improvement of Psychological Science (SIPS) conference [SIPS2029](#), Rotterdam, The Netherlands 2019
- Showcase, 'Creativity and the Liberal Arts', Global Academy of Liberal Arts (GALA) Annual Conference [GALA](#), Montréal, Canada 2018
- Invited talk, 'Creating Creativity? Assessing adaptive expertise in Liberal Education students', European Liberal Education Student Conference [LESC](#), Utrecht, The Netherlands 2018
- Poster presentation, 'Assessing Adaptive Expertise in Higher Education Students', Utrecht Platform for Creativity in Education (UPCE) conference [UPCE](#), Utrecht, The Netherlands 2016
- Workshop, 'The interdisciplinary research process in practice', National Interdisciplinary Education (NIE) Conference [NIE](#), Amsterdam, The Netherlands 2016

## TEACHING AND SUPERVISION

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### THESIS SUPERVISION

2023-current

- Research Master thesis Methodology and Statistics for the Behavioural, Biomedical and Social Sciences, co-supervision of 1 student (2023-2024)
- Master thesis Applied Data Science 'Research Project GSNS', co-supervision of 3 students (2020-2021), supervision of 3 students (2021-2022) 2020-2022

## MISSING DATA METHODOLOGY

- 'Missing Data and Causal Effects' (advanced undergraduate), lectures (2023-2024), work groups and grading (2021-2022, 2022-2023) 2021-current

## PROGRAMMING AND APPLIED DATA SCIENCE

- 'Statistical Programming with R' (summer school), guest lecture (2022-2023, 2023-2024) 2022-current
- 'Markup Languages and Reproducible Programming in Statistics' (research master), lectures (2023-2024), guest lecture (2021-2022, 2022-2023), grading (2022-2023, 2023-2024) 2021-current
- Applied Data Analysis and Visualization (advanced undergraduate), guest lecture (2020-2021, 2021-2022, 2022-2023, 2023-2024), work groups and grading (2020-2021) 2020-current
- 'Practicum cognitieve en neurobiologische psychologie' (advanced undergraduate), supervising practicals 2017-2018
- 'Experimenting and registering' (advanced undergraduate), supervising practicals 2016-2017

## QUALITATIVE RESEARCH METHODOLOGY

- 'Technieken voor analyse kwalitatieve en kwantitatieve gegevens (TAK)' (advanced undergraduate), supervising practicals 2020-2022
- 'Advanced Research Methods and Statistics' (advanced undergraduate), developing assignments, grading, teaching work groups, supervising practicals 2018-2019
- 'Doing a Qualitative Research Project' (advanced undergraduate), developing assignments, lecturing, teaching work groups, supervising practicals 2018-2019
- 'Qualitative Inquiry in Everyday Life (MET24)' (advanced undergraduate), teaching work groups, supervising practicals 2018-2019

## METHODOLOGY AND STATISTICS

- 'Verdieping Onderzoeksmethoden en Statistiek (VOS)' (advanced undergraduate), teaching work groups, and grading (2020-2021, 2022-2023, 2023-2024) 2020-current

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| • 'Basis van Onderzoeksmethoden en Statistiek' (pre-master), teaching work groups, grading, and test organization                                  | 2021-2022 |
| • 'Bachelorthesis Pedagogische Wetenschappen' (advanced undergraduate), consultancy in methodology & statistics labs                               | 2021-2022 |
| • 'Advanced Research Methods and Statistics' (advanced undergraduate), teaching work groups, grading, and test organization (2020-2021, 2021-2022) | 2020-2022 |
| • 'Toepassing van onderzoeksmethoden en statistiek (TOE)' (introductory undergraduate)   | 2017-2018 |

## PROFESSIONAL MEMBERSHIPS AND SERVICE

- The Society for the Improvement of Psychological Science [SIPS](#)
- Netherlands Society for Statistics and Operations Research [VVSOR](#)
- Interuniversity Graduate School of Psychometrics and Sociometrics [IOPS](#)
- Open Science Community Utrecht [OSCU](#)
- [rainbowR](#)
- [R contributors](#)
- Peer-review for e.g. [Biomedical Journal](#) and [Statistica Neerlandica](#)
- [Statistical consulting](#)

## PUBLICATIONS

- Liu, Dawei, Hanne I. Oberman, Johanna Muñoz, Jeroen Hoogland, and Thomas P. A. Debray. 2023. "Quality Control, Data Cleaning, Imputation." In *Clinical Applications of Artificial Intelligence in Real-World Data*, edited by Folkert W. Asselbergs, Spiros Denaxas, Daniel L. Oberski, and Jason H. Moore, 7–36. Cham: Springer International Publishing. [https://doi.org/10.1007/978-3-031-36678-9\\_2](https://doi.org/10.1007/978-3-031-36678-9_2).
- Oberman, Hanne I. 2021. "Visualizing Uncertainty Due to Missing Data." In *IEEE VIS, VisComm Track*. <https://doi.org/10.31219/osf.io/ahtfy>.
- . 2022. "{Ggmice}: Visualizations for '{Mice}' with '{Ggplot2}'." Zenodo. <https://doi.org/10.5281/zenodo.6532702>.
- Oberman, Hanne I., Marjan Bakker, Dong Nguyen, and Daniel Oberski. 2021. "Preregistration of Data Science Studies." In *Open Science Festival*. Open Science Framework. <https://doi.org/10.17605/OSF.IO/Y6J73>.
- Oberman, Hanne I., Stef van Buuren, and Gerko Vink. 2020. "Missing the Point: Non-Convergence in Iterative Imputation Algorithms." In.
- Oberman, Hanne I., Steven W J Nijman, Gerko Vink, Thomas P A Debray, and Maarten van Smeden. n.d. "Real-Time Handling of Missing Data in the Application of Prediction Models: A Comparison of Methods."
- Oberman, Hanne I., Stef van Buuren, and Gerko Vink. 2021. "Missing the Point: Non-Convergence in Iterative Imputation Algorithms." <https://arxiv.org/abs/2110.11951>.
- Oberman, Hanne I., and Gerko Vink. n.d. "Toward a Standardized Evaluation of Imputation Methodology." *Biometrical Journal* n/a (n/a): 2200107. Accessed

September 13, 2023. <https://doi.org/10.1002/bimj.202200107>.

Snel, Erik, Godfried Engbersen, Peter Van Der Heijden, and Hanne Oberman.

2023. "Een longitudinale studie naar het afgenomen vertrouwen gedurende de coronapandemie." *Mens & Maatschappij* 98 (4): 369–94.

<https://doi.org/10.5117/MEM2023.4.004.SNEL>.

van Veelen, Ruth, Judith de Haan, Hanne Oberman, Pepijn Vink, and Jacob

Nelson. 2023. "Open Science Monitor 2022." Zenodo.

<https://doi.org/10.5281/zenodo.8375726>.