

Erik-Jan van Kesteren

Utrecht – Netherlands

✉ erikjanvankesteren@pm.me

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Experience

Assistant Professor Human Data Science

2020 - Present

Utrecht University, Netherlands

- Team lead for the ODISSEI Social Data Science team (odissei-data.nl/soda)
- Teaching various applied data science & statistics courses

PhD Candidate Methodology & Statistics

2017 - 2020

Utrecht University, Netherlands

Dissertation: 1874/401115

- NWO Talent Grant project: Extending structural equation models to accommodate novel data sources
- Supervisor: Dr. Daniel L. Oberski
- Spring 2019: Research visit at Cambridge MRC CBU on brain structure covariance with Rogier Kievit

Statistical Programmer / Software Developer

2016 - 2020

JASP, University of Amsterdam

Software development for JASP, an accessible, open-source application for performing statistical analysis

MSc Methodology & Statistics

2015 - 2017

Utrecht University

Cum laude

Thesis: How correlations between genes influence class prediction models

Data Professional

2014 – 2015

Douwe Egberts Master Blenders 1753

Responsible for data reports, data quality checks, data dashboards for various departments

MSc Organisational & Social Psychology

2013 - 2014

London School of Economics

With distinction

Thesis: Trust in teams collaborating virtually

BA (Hons) Social Sciences

2010 - 2013

University College Utrecht

Summa cum laude

Psychology, Economics, Neuroscience, Statistics

Selected publications

Van Kesteren, E. J. & Kievit, R. K. (2020). Exploratory factor analysis with structured residuals for brain network data. *Network Neuroscience*, 1-27, DOI: 10.1162/netn_a_00162

- Preprint: <https://doi.org/10.1101/2020.02.06.933689>
- Software: <https://github.com/vankesteren/efast>

Van Kesteren, E. J. Sun, C., Oberski, D. L., Dumontier, M. J. & Ippel, G. J. E. (Under review). Privacy-preserving generalized linear models using distributed block coordinate descent. *arXiv preprint*

- Preprint: <https://arxiv.org/abs/1911.03183>
- Software: <https://github.com/vankesteren/privreg>

Van Kesteren, E. J. & Oberski, D. L. (Under review). Flexible Extensions to Structural Equation Models using Computation Graphs. *arXiv preprint*

- Preprint: <https://arxiv.org/abs/1905.04492>
- Software: <https://github.com/vankesteren/tensorsem>

Van Kesteren, E. J. & Oberski, D. L. (2019). Exploratory Mediation Analysis with Many Potential Mediators. *Structural Equation Modeling: A Multidisciplinary Journal*, DOI: 10.1080/10705511.2019.1588124

- Preprint: <https://arxiv.org/abs/1810.06334>
- Software: <https://github.com/vankesteren/cmfilter>

Conference Presentations

ECAI Workshop: AI for a Fair, Just and Equitable World (Online) Fair Inference on Error-Prone Outcomes	<i>August 2020</i>
Bayesian SEM meeting (Ghent; BE) Structural Equation Modeling using Computation Graphs	<i>June 2019</i>
SEM Working Group Conference (Tübingen; DE) Extending Structural Equation Modeling using Insights from Deep Learning	<i>March 2019</i>
Modern Modeling Methods Conference (Boston, MA; USA) Exploratory Mediation Analysis with Many Potential Mediators	<i>May 2018</i>
SEM Working Group Conference (Amsterdam; NL) Exploratory Mediation Analysis with Many Potential Mediators	<i>February 2018</i>

Teaching

Data Analysis & Visualisation <ul style="list-style-type: none">Master's level course on statistical learning, R programming for data scienceCourse coordination, lecturingMaterials built from scratch: http://www.uudav.nl	<i>2017 - Present</i>
Statistical Programming with R <ul style="list-style-type: none">Week-long summer course at the Utrecht Summer SchoolWith dr. Gerko VinkMaterials: https://www.gerkovink.com/Statistical-Programming-with-R/	<i>2017 - Present</i>
Thesis supervision <ul style="list-style-type: none">Supervision of theses in methodology & statistics<ul style="list-style-type: none">Interim analysis / early stopping of experiments (Bachelor's thesis, with Prof. Irene Klugkist)Reducing overfitting in structural equation models (Master's thesis, with Dr. Daniel Oberski)	<i>2016 - Present</i>
Statistical consultation <ul style="list-style-type: none">Statistical consultation for bachelor, master, and PhD studentsPart of the Methods & Statistics consultation shop	<i>2016 - Present</i>

Awards & Honours

NWO Research talent grant <i>Netherlands Organisation for Scientific Research (NWO)</i> Full personal grant for my PhD position at Utrecht University, awarded for the project <i>New Dimensions in Social Science: Extending structural equation models to accommodate novel data sources</i> .	2017
JASP Annual Contributor Award <i>JASP</i> Award for my contributions to the JASP open-source project, see the award text	2017
Bright Minds Award <i>Dare to Cross Over conference</i> Award for my pitch of our Young Innovators honours project	2016

Miscellaneous

Member of the Faces of Science <ul style="list-style-type: none">Part of the Royal Netherlands Academy of Arts and SciencesScience communication / blogginghttps://www.nemokennislink.nl/facesofscience/	<i>2018 - 2020</i>
Board member of the Netherlands Young Statisticians <ul style="list-style-type: none">An organization for students and early-career statisticians.Organisation of company visits, small conferences, and meetups.Website: http://youngstatisticians.nl	<i>2016 - 2020</i>

Languages

- Dutch (Native)
- English (Fluent)
- German (Proficient)
- Italian (Proficient)