Erik-Jan van Kesteren

Utrecht – Netherlands

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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 Methodology & Statistics   **2017 - 2020**

Utrecht University, Netherlands   *Cum laude*
- Dissertation `DOI: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)	*August 2020*
Fair Inference on Error-Prone Outcomes	
Bayesian SEM meeting (Ghent; BE)	*June 2019*
Structural Equation Modeling using Computation Graphs	
SEM Working Group Conference (Tübingen; DE)	*March 2019*
Extending Structural Equation Modeling using Insights from Deep Learning	
Modern Modeling Methods Conference (Boston, MA; USA)	*May 2018*
Exploratory Mediation Analysis with Many Potential Mediators	
SEM Working Group Conference (Amsterdam; NL)	*February 2018*
Exploratory Mediation Analysis with Many Potential Mediators	

Teaching

Data Analysis & Visualisation *2017 - Present*
- Master's level course on statistical learning, R programming for data science
- Course coordination, lecturing
- Materials built from scratch: http://www.uudav.nl

Statistical Programming with R *2017 - Present*
- Week-long summer course at the Utrecht Summer School
- With dr. Gerko Vink
- Materials: https://www.gerkovink.com/Statistical-Programming-with-R/

Thesis supervision *2016 - Present*
- Supervision of theses in methodology & statistics
  - 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)

Statistical consultation *2016 - Present*
- Statistical consultation for bachelor, master, and PhD students
- Part of the Methods & Statistics consultation shop

Awards & Honours

NWO Research talent grant **2017**
Netherlands Organisation for Scientific Research (NWO)
Full personal grant for my PhD position at Utrecht University, awarded for the project *New Dimensions in Social Science: Extending structural equation models to accommodate novel data sources.*

JASP Annual Contributor Award **2017**
JASP
Award for my contributions to the JASP open-source project, see the award text

Bright Minds Award **2016**
Dare to Cross Over conference
Award for my pitch of our Young Innovators honours project

Miscellaneous

Member of the Faces of Science *2018 - 2020*
- Part of the Royal Netherlands Academy of Arts and Sciences
- Science communication / blogging
- https://www.nemokennislink.nl/facesofscience/

Board member of the Netherlands Young Statisticians *2016 - 2020*
- An organization for students and early-career statisticians.
- Organisation of company visits, small conferences, and meetups.
- Website: http://youngstatisticians.nl

Languages

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