Erik-Jan van Kesteren

Utrecht – Netherlands

✉ erikjanvankesteren@pm.me   ⊙ vankesteren   ▯ ▮▮▮▮▮▮▮

Experience

PhD Candidate Methodology & Statistics   **Sept 2017 - Present**

Utrecht University, Netherlands

Supervisor: Dr. Daniel L. Oberski

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

Statistical Programmer / Software Developer   **Aug 2016 - Present**

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

Young Innovators honours programme

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

Publications

Van Kesteren, E. J. & Kievit, R. K. (In preparation). Exploratory factor analysis with structured residuals applied to brain morphology.
- Software: `https://github.com/vankesteren/efast`

Van Kesteren, E. J. Sun, C., Oberski, D. L., Dumontier, M. J. & Ippel, G. J. E. (Submitted). 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. (Submitted). Structural Equation Models as 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`

Wagenmakers, E. J., Love, J., Marsman, M., Jamil, T., Ly, A., Verhagen, J., …, Van Kesteren, E. J., … & Morey, R.D. (2018). Bayesian inference for psychology. Part II: Example applications with JASP. *Psychonomic Bulletin & Review, 25*(1), 58-76.

Conference Presentations

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
- With dr. Daniel Oberski
- 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

Talent grant **2017-2021**
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 - Present*
- 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 - Present*
- An organization for students and early-career statisticians.
- Organisation of company visits, small conferences, and meetups.
- Website: `http://youngstatisticians.nl`

Co-founder of Methods & Statistics Data Science Lab *2017*

- Reading group / invited talks on data science at Utrecht University
- Website: `https://msdslab.sites.uu.nl/`

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