

# Erik-Jan van Kesteren

– Netherlands

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## Experience

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### Assistant Professor Human Data Science

2020 - Present

*Utrecht University, Netherlands*

- Team lead for the ODISSEI Social Data Science team ([odissei-data.nl/soda](https://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

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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

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

## Teaching

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

## Awards & Honours

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<b>NWO Research talent grant</b> <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> .	<b>2017</b>
<b>JASP Annual Contributor Award</b> <i>JASP</i> Award for my contributions to the JASP open-source project, see the <a href="#">award text</a>	<b>2017</b>
<b>Bright Minds Award</b> <i>Dare to Cross Over conference</i> Award for my pitch of our Young Innovators honours project	<b>2016</b>

## Miscellaneous

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

**Languages**

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