

Koen Derks

PHD RESEARCHER

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Education

Nyenrode Business University & University of Amsterdam

PHD RESEARCHER IN STATISTICAL AUDITING

- Supervised by Ruud Wetzels, Jacques de Swart and Eric-Jan Wagenmakers.
- The project concerns developing Bayesian alternatives for frequentist methods in the Audit Risk Model.
- Developing JASP for Audit, a statistical data analytic program that supports auditors in their analysis.

Breukelen, the Netherlands

Sept. 2018 - Present

University of Amsterdam

MSC (RESEARCH) IN PSYCHOLOGICAL METHODS

- Major in Methods and Statistics, specializing in Bayesian statistics.
- Minor in Artificial Intelligence (University of Amsterdam), focusing on Natural Language Processing and Computational Intelligence.

Amsterdam, the Netherlands

Sep. 2016 – Aug. 2018

University of Amsterdam

BSC (HONORS) IN PSYCHOLOGICAL METHODS

- Specialization in Methods and Statistics.
- Minor in Intelligence Studies (University of Amsterdam)

Amsterdam, the Netherlands

Sep. 2013 – Jul. 2016

Experience

JASP - University of Amsterdam

FRONT— AND BACKEND PROGRAMMER

- Responsible for developing and maintaining front- and back end of the machine learning module.
- Developing and maintaining an add-on module for Bayesian Informative Hypothesis Testing.
- Working on JASP's graphics and plot functionality.

Amsterdam, the Netherlands

Apr. 2017 - Aug. 2018

Faculty of Economics and Business - University of Amsterdam

DATA ADMINISTRATOR

- responsible for the administration and analysis of weekly exams.
- Writing programming scripts to discover patterns in test data.

Amsterdam, the Netherlands

Sep. 2017 – Aug. 2018

JASP - University of Amsterdam

RESEARCH INTERN

- Project title: JASP: A Fresh Way to Do Machine Learning.
- Developed and programmed a machine learning add-on module for JASP (jasp-stats.org).
- Final manuscript: <https://goo.gl/t4EAPy>

Amsterdam, the Netherlands

Feb. 2017 - Jul. 2017

Centre of Blended Learning - University of Amsterdam

RESEARCH COORDINATOR 'NO DISTRACTIONS!' STUDY

- Working on the experiment, data collection and analysis.
- Steering the project in the right direction.

Amsterdam, the Netherlands

Sep. 2016 – Sep. 2017

Tentamentrainingen.nl

TEACHER OF STATISTICS

- Taught the basics of inferential statistics to students in need of help.
- Gained experience with addressing students' issues.

Amsterdam, the Netherlands

Jan. 2016 - Sep. 2016

Extracurricular Activity

The Methodology Shop - University of Amsterdam

STATISTICAL CONSULTANT

- The "Methodology Shop" offers methodological and statistical advice to students who struggle with- or have questions about their data analysis or research design.
- Obtained useful conversational skills.

Amsterdam, the Netherlands

Jun. 2016 - Aug. 2018

Awards

DOMESTIC

- 2017 **1st Prize Poster Award**, Research Master Graduate Conference 2017 *Amsterdam, the Netherlands*
- 2016 **Award**, Kluitersprijs - Ad de Jonge Centrum voor Inlichtingen en Veiligheidsstudies *Amsterdam, the Netherlands*

Publications

The Bayesian Methodology of Sir Harold Jeffreys as a Workable Alternative to the P -value Hypothesis Test *Journal Article*

SUBMITTED TO THE ROYAL STATISTICAL SOCIETY

Co-author

The JASP Guidelines for Reporting a Bayesian Analysis *Journal Article*

SUBMITTED TO ADVANCES IN METHODS AND PRACTICES IN PSYCHOLOGICAL SCIENCE

Co-author

Network models to organize a dispersed literature: The case of misunderstanding analysis of covariance *Journal Article*

JOURNAL OF EUROPEAN PSYCHOLOGY STUDENTS (2018)

First author

Bayesian inference for psychology. Part II: Example Applications with JASP *Journal Article*

PSYCHONOMIC BULLETIN & REVIEW (2017)

Co-author

Software

- 2018 **JASP for Audit**, www.jasp-stats.org *Software*
- 2018 **A Bayesian Normality Test**, <https://koenderks.shinyapps.io/bayesiannormalitytest/> *Online application*
- 2018 **The Literature Networks Web Application**, <https://koenderks.shinyapps.io/LiteratureNetworks/> *Online application*
- 2017 **The Optimal Foraging App**, <https://koenderks.shinyapps.io/TheOptimalForagingInMemoryApp/> *Online application (Beta)*

Presentations

Research Master Graduate Conference *Amsterdam, the Netherlands*

POSTER PRESENTER FOR THE JASP TEAM

Aug. 2017

- Introduced JASP's machine learning module and its functionality.