

Curriculum Vitae

Michèle B. Nuijten, MSc

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Personal Information

Born	February 9th 1990, Utrecht, The Netherlands
Work Address	Tilburg University, Department of Methodology and Statistics, P.O. Box 90153, 5000 LE, Tilburg, The Netherlands
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Research

Dec 2012 – present	PhD Candidate, Social and Behavioral Sciences Project title: <i>Human Factors in Statistics</i> . Supervisors: prof. dr. Jelte M. Wicherts and prof. dr. Marcel A. L. M. van Assen. Tilburg University
April – May 2017	Research Visit to METRICS at Stanford University A three week visit to the Meta-Research Innovation Center at Stanford (METRICS), California, USA. Together with prof. dr. John P. A. Ioannidis, dr. Daniele Fanelli, and their colleagues I worked on several research projects concerning meta-science.
March – Dec 2012	Research Assistant Aiding in designing and monitoring an automatized tracking system that analyzes and reports longitudinal patient data. Supervisor: prof. dr. Denny Borsboom. University of Amsterdam.

Education

2011–2012	MSc Psychology (<i>cum laude</i>), University of Amsterdam Specialization: Psychological Research Methods. Thesis: <i>A Default Bayesian Hypothesis Test for Mediation</i> , supervisor: prof. dr. Eric-Jan Wagenmakers.
2008–2011	BSc Psychology (<i>cum laude</i>), University of Amsterdam Specialization: Psychological Research Methods. Thesis: <i>The Use of the Sobel Test in Mediation Analysis</i> , supervisor: dr. Jelte M. Wicherts.
	Honours Programme of Psychology 30 ECTS in addition to the regular Bachelor. University of Amsterdam.

Teaching

University Teaching Qualification

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| 2017 | University Teaching Qualification: Module TEST
Completing the UTQ module TEST, focused on designing valid and reliable exams based on learning goals. |
| 2015 | University Teaching Qualification: Module PLAN
Successfully completed the UTQ module PLAN, focused on formulating learning goals and designing a course or a lecture according to them. |
| 2014 | University Teaching Qualification: Module TEACH
Successfully completed the UTQ module TEACH, focused on acquiring insight into student behavior during classes and the influence of the lecturer behavior on these interactions. |

Lecturer

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| 2016 – present | Lecturer
Lecturer and co-coordinator for the first years psychology course on methodology and research methods: “MTO-A-PSY”. Tilburg University. |
| 2013– 2016 | Teaching Assistant
Supervising tutorials for the second year’s psychology course on correlational research methods: “MTO-D PSY”. Tilburg University. |
| March 2012 – July 2012 | Teaching Assistant
Designing and grading assignments, supervising practical sessions for a first year’s Beta Gamma course on research methods and statistics in R: “Social Sciences in Perspective”. University of Amsterdam. |
| Feb – March 2012 | Teaching Assistant
Supervising practical sessions, grading assignments for the Bachelor of Psychology course “SPSS Psychology”. University of Amsterdam. |
| Jan 2012 | Teaching Assistant
Supervising practical sessions, grading assignments for the Research Master of Psychology course “Programming Skills: R”. University of Amsterdam. |

Supervising

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| Jan – March 2014 | Supervisor Research Internship
Supervising the research internship of Research Master student Chris Hartgerink. Project: <i>statcheck programming internship</i> . Tilburg University. |
| June – Dec 2013 | Supervisor Research Internship
Supervising the research internship of Research Master student Jeroen Borghuis. Project: <i>Does recommended data sharing decrease statistical misreporting?</i> Tilburg University. |

Academic Activities and Memberships

July 2017 – present	Advisory Board of Curate Science Member of the Advisory Board of Curate Science (http://curatescience.org). Curate Science is a unified framework to quantify internal and external trustworthiness of empirical research over time.
2016 – present	Executive Committee SIPS Member of the executive committee of the Society for the Improvement of Psychological Science (SIPS). SIPS is a service organization aiming to make psychological science higher quality and more cumulative.
2016 – present	Program Committee Replication Research NWO Advising NWO (The Netherlands Organization for Scientific Research) on distributing funding for replication research.
Dec 2014 – Dec 2015	PhD Representative Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS) Among other things, activities consist of attending IOPS board meetings, selecting reviewers for new IOPS proposals, chairing the IOPS PhD student meeting, and maintain the IOPS website.
Oct 2013 – Sept 2014	Member of Organizing Committee Member of the organizing committee for the seminar ‘Improving Scientific Practice: Dealing with the Human Factors’.
Dec 2013 – Dec 2014	Assistant PhD Representative IOPS Assisting the PhD representative with her activities. Among other things, these activities consist of attending IOPS board meetings, selecting reviewers for new IOPS proposals, chairing the IOPS PhD student meeting, and build and maintain the IOPS website.
Jan 2013 – present	Member of IOPS Student member.
Sept 2011 – Nov 2012	Methodology Shop Consultant The Methodology Shop is a help desk for free methodological and statistical advice. The clients usually are undergraduate students who need help with their research, but there are also clients from outside the university who ask for methodological advice. University of Amsterdam.

Editorial Activities

2017 – present	Board of Consulting Editors at PSPB Consulting Editor for the <i>Personality and Social Psychology Bulletin</i> .
April 2017	SSMART 2017 Review Committee Member of the review committee of the Social Science Meta-Analysis and Research Transparency (SSMART) grants, initiated by the Berkeley Initiative for Transparency in the Social Sciences (BITSS). In total there was \$ 60,000 in funding to award.

2013 – present | **Ad Hoc Reviewing**
 Psychological Methods, PNAS, Behavior Research Methods, Review of General Psychology, PLoS Biology, Journal of Cross-Cultural Psychology, Journal of Experimental Social Psychology, Educational Psychology and Measurement, Journal of Media Psychology, Journal of Official Statistics, Journal of Mathematical Psychology, Journal of Open Psychology Data.

Grants & Awards

April 2017 | **Campbell Methods Grant (\$20,000)**
 A \$20,000 methods grant from the Campbell Collaboration for the project “*Verifying the accuracy of statistical significance testing in Campbell Collaboration systematic reviews through the use of the R package statcheck*”, together with Joshua R. Polanin.

Nov 2016 | **Leamer-Rosenthal Prize for Open Social Science: Emerging Researcher (\$10,000)**
 A joint cash award of \$10,000 together with Sacha Epskamp from the Berkeley Initiative for Transparency in the Social Sciences (BITSS) for our work on “statcheck”.

Sep 2016 – present | **Rackspace Sponsorship (\$2,000 per Month)**
 Rackspace sponsors me for \$2000 per month in hosting costs for the web app <http://statcheck.io>.

July 2014 | **Best Presentation by a PhD Student**
 Nuijten, M. B., Van Assen, M. A. L. M., Veldkamp, C. L. S., & Wicherts, J. M. (2014, July). *The replication paradox: Combining studies can decrease accuracy of effect size estimates*. Paper presented at the 6th European Congress of Methodology, Utrecht, The Netherlands.

Publications

2017 | **Nuijten, M. B.**, Borghuis, J., Veldkamp, C. L. S., Dominguez-Alvarez, L., Van Assen, M. A. L. M., & Wicherts, J. M. (2017). Journal data sharing policies and statistical reporting inconsistencies in psychology. *Preprint retrieved from osf.io/preprints/psyarxiv/sgbta*.

2016 | **Nuijten, M. B.**, Deserno, M. K., Cramer, A. O. J., & Borsboom, D. (2016). Mental disorders as complex networks: An introduction and overview of a network approach to psychopathology. *Clinical Neuropsychiatry*, *13* (4/5), 68-76.

Nuijten, M. B., Deserno, M. K., Cramer, A. O. J., Costantini, G., & Borsboom, D. (2016). Disturbi mentali come complex network: Un’ introduzione e una panoramica all’ approccio network in psicopatologia. *Cognitivismo clinico*, *13* (2), 135-149.

Lunansky, G., **Nuijten, M. B.**, Deserno, M. K., Cramer, A. O. J., & Borsboom, D. (*in press*). *Een symptoom komt nooit alleen: Psychologische stoornissen als complexe netwerken* [A symptom never comes alone: Psychological disorders as complex networks]. To appear in: Handboek Persoonlijkheidspathologie [Handbook of Personality Pathology].

- Nuijten, M. B.**, Hartgerink, C. H. J., Van Assen, M. A. L. M., Epskamp, S., & Wicherts, J. M. (2016). The prevalence of statistical reporting errors in psychology (1985-2013). *Behavior Research Methods*, *48*, 1205-1226. DOI: 10.3758/s13428-015-0664-2
- Nuijten, M. B.** (2016). Preventing statistical errors in scientific journals. *European Science Editing*, *42*, 1, 8-10.
- Hartgerink, C. H. J., Van Aert, R. C. M., **Nuijten, M. B.**, Wicherts, J. M., Van Assen, M. A. L. M. (2016). Distributions of p -values smaller than .05 in Psychology: What is going on? *PeerJ*, *4*, e1935, DOI: 10.7717/peerj.1935
- 2015 Open Science Collaboration (2015). Estimating the reproducibility of psychological science. *Science*, *349* (6251). DOI: 10.1126/science.aac4716
- Nuijten, M. B.**, Van Assen, M. A. L. M., Veldkamp, C. L. S., & Wicherts, J. M. (2015). The replication paradox: Combining studies can decrease accuracy of effect size estimates. *Review of General Psychology*, *19* (2), 172-182.
- Nuijten, M. B.**, Wetzels, R., Matzke, D., Dolan, C. V., & Wagenmakers, E.-J. (2015). A default Bayesian hypothesis test for mediation. *Behavior Research Methods*, *47*, 85-97. DOI: 10.3758/s13428-014-0470-2
- 2014 Veldkamp, C. L. S., **Nuijten, M. B.**, Dominguez-Alvarez, L., Van Assen, M. A. L. M., & Wicherts, J. M. (2014). Statistical reporting errors and collaboration on statistical analyses in psychological science. *PLoS One*, *9* (12), e114876.
- Epskamp, S., & **Nuijten, M. B.** (2014). *statcheck*: Extract statistics from articles and recompute p values. R package version 1.0.0. <http://CRAN.R-project.org/package=statcheck>.
- Nuijten, M. B.**, Wetzels, R., Matzke, D., Dolan, C. V., & Wagenmakers, E.-J. (2014). *BayesMed*: Default Bayesian hypothesis tests for correlation, partial correlation, and mediation. R package version 1.0. <http://CRAN.R-project.org/package=BayesMed>.
- Nuijten, M. B.**, Van Assen, M. A. L. M., Van Aert, R. C. M., & Wicherts, J. M. (2014). Standard analyses fail to show that US studies overestimate effect sizes in softer research *Proceedings of the National Academy of Sciences*, *111*(7), E712-E713.
- Van Assen, M. A. L. M., Van Aert, R. C. M., **Nuijten, M. B.**, & Wicherts, J. M. (2014). Why publishing everything is more effective than selective publishing of statistically significant results. *PLoS One*, *9*(1): e84896. DOI:10.1371/journal.pone.0084896.

Popular Press

- 2017 Guest on the podcast *PLOScast* in an episode on *statcheck* and the replication crisis, hosted by Elizabeth Seiver.
- Guest on the podcast *Everything Hertz* in an episode on *statcheck* and meta-science, hosted by Daniel Quintana and James Heathers.
- Nuijten, M. B.** (2017). *BayesMed* and *statcheck*. *The APS Observer*.
- Buranyi, S. (2017). The hi-tech war on science fraud. *The Guardian*.

- 2016 Nature Editorial (2016). Post-publication criticism is crucial, but should be constructive: In an era of online discussion, debate must remain nuanced and courteous. *Nature*, 540, 7-8. DOI: 10.1038/540007b.
- Baker, M. (2016). Stat-checking software stirs up psychology. *Nature*, 540, 151152. DOI: 0.1038/540151a.
- Buranyi, S. (2016). Scientists are worried about ‘peer review by algorithm’. Retrieved from <http://motherboard.vice.com>.
- Resnick, B. (2016). A bot crawled thousands of studies looking for simple math errors. The results are concerning. Retrieved from www.vox.com.
- Kershner, K. (2016). Statcheck: when bots ‘correct’ academics. Retrieved from <http://now.howstuffworks.com>.
- Keulemans, M. (2016). Worden sociale wetenschappen geterroriseerd door jonge onderzoekers?: Oorlog onder psychologen. *De Volkskrant*.
- 2015 Baker, M. (2015). Smart software spots statistical errors in psychology papers: One in eight articles contain data-reporting mistakes that affect their conclusions. *Nature News*.
- Vermeulen, M. (2015). ‘Grove onzorgvuldigheden’ in deel psychologische studies: Gevolgen voor uitkomst in 1 op 8 papers. *De Volkskrant*.
- Aan de Brugh, M. (2015). Psycholoog tobt met statistiek. *NRC Handelsblad*.
- Keulemans, M. (2015). De psychologie van gebrekkig onderzoek. *De Volkskrant*.
- 2014 Huis in t Veld, E. M. J. (2014). Replication Paradox: Met Michèle Nuijten. *De Psychonoom*, 17-20.
- Verbeke, R. (2014). Barsten in betrouwbaarheid. *Eos Wetenschap*, 28-33.
- 2013 **Nuijten, M. B.**, Deserno, M., Cramer, A. O. J., & Borsboom, D. (2013). Een symptoom komt nooit alleen: Psychologische stoornissen als complexe netwerken. *De Psycholoog*.

Invited Presentations

- 2017 **Nuijten, M. B.** (2017, May). *Using “statcheck” to detect misreported statistics in the scientific literature*. Invited presentation for a symposium on “Evaluating the state of Psychological science”, chaired by Simine Vazire at the 29th Annual Convention of the Association for Psychological Science, Boston, MA, USA.
- Nuijten, M. B.** (2017, April). *Using “statcheck” to detect misreported statistics in the scientific literature*. Invited presentation at the San Francisco headquarters of the publisher PLOS, CA, USA.
- Nuijten, M. B.** (2017, January). *“statcheck”: Extract statistical results and recompute p-values*. A two-day invited workshop for the Winter School of the Master Program Economics and Psychology at the University Paris 1 Panthéon-Sorbonne and Paris Descartes, Paris, France.
- 2016 **Nuijten, M. B.** (2016, December). *Using “statcheck” to detect misreported statistics in the scientific literature & other ways to improve science*. Invited presentation for METRICS, Stanford University, CA, USA.

- Nuijten, M. B.** (2016, October). *“statcheck”: Extract statistical results and recompute p-values.* Invited presentation for the Young Statisticians, Utrecht, the Netherlands.
- Nuijten, M. B.** (2016, October). *Gray areas in statistics: How methodological and statistical decisions can influence conclusions.* Tilburg University, invited presentation for Research Master students and PhD students of Tilburg University.
- Nuijten, M. B.** (2016, September). *“statcheck”: Extract statistical results and recompute p-values.* University of Zurich, Switzerland, invited presentation for students and faculty of the Psychology department.
- Invited panel member for an interdisciplinary debate on the use of statistics in science and the media (May, 2016). University Day, University of Amsterdam, The Netherlands.
- Nuijten, M.B.** (2016, May). *False positives in published research: Causes & solutions.* Invited presentation for Sanquin Research, department of Donor Studies.
- Nuijten, M.B.** (2016, April). *The replication paradox.* Invited presentation for the department of Psychology. Erasmus Universiteit Rotterdam.
- Nuijten, M. B.** (2016, January). *Gray areas in statistics: How methodological and statistical decisions can influence conclusions.* Invited presentation for the department of Organization Studies. Tilburg University.
- Nuijten, M. B.** (2016, January). *“statcheck” & reporting errors in psychology.* Invited presentation. Utrecht University.
- 2015 **Nuijten, M. B.** (2015, November). *“statcheck”. Extract statistical results and recompute p-values.* Invited lecture for the Master course “Data Mining”, Tilburg University.
- Nuijten, M. B.** (2015, November). *Problemen en oplossingen rondom publication bias.* [English title: Problems and solutions concerning publication bias.] Invited talk for the department of Cognitive Neuroscience, Tilburg University.
- Nuijten, M. B.** (2015, November). *The statistical quality of published research.* Invited lecture for the Master course Journalistic Data Analysis, Tilburg University.
- Nuijten, M. B.** (2015, October). *Gray areas in statistics: How methodological and statistical decisions can influence conclusions.* Tilburg University, invited presentation for Research Master students and PhD students of Tilburg University.
- Invited panel member for an interdisciplinary debate on the replicability of scientific research (September, 2015). Studium Generale, University of Maastricht, The Netherlands.
- Nuijten, M. B.** (2015, March). *Gray areas in statistics: How methodological and statistical decisions can influence conclusions.* Tilburg University, invited presentation for PhD students of Tilburg University.
- 2014 **Nuijten, M. B.** (2014, March). *Gray areas in statistics: How methodological and statistical decisions can influence conclusions.* Tilburg University, invited presentation for Department of Human Resource Studies.
- 2013 **Nuijten, M. B.** (2013, June). *Vijftig tinten grijs in wetenschappelijk onderzoek.* [English title: “Fifty shades of grey in scientific research”.] University of Amsterdam, invited lecture for second year’s Psychology students.

Presentations

- 2017 | **Nuijten, M. B.** (2017, April). *“statcheck”: An automated way to find misreported statistical results.* Presentation for the Reproducibility and Open Science Working Group at the Berkeley Institute for Data Science, CA, USA.
- 2016 | Epskamp, S., & **Nuijten, M. B.** (2016, December). *“statcheck”: An automated way to find misreported statistical results.* Presentation at the fifth Annual Meeting of BITSS, Berkeley, CA, USA.
- Nuijten, M. B.** (2016, November). *“statcheck”: An automated tool do detect misreported statistics in the scientific literature.* Presentation at the Masterclass with Professor John P. A. Ioannidis, AMC/VUmc, Amsterdam, The Netherlands.
- Nuijten, M. B.**, Agusteijn, H. E. M., Cromptvoets, E. C., Van Assen, M. A. L. M., & Wicherts, J. M. (2016, May). *Publication bias in IQ research.* Paper presented at the 28th Annual Convention of the Association for Psychological Science, Chicago, IL, USA.
- 2015 | **Nuijten, M. B.**, Hartgerink, C. H. J., Van Assen, M. A. L. M., Epskamp, S., & Wicherts, J. M. (2015, May). *Reporting errors in psychology and their relation with open data.* Paper presented at the 27th Annual Convention of the Association for Psychological Science, New York, NY, USA.
- Nuijten, M. B.**, Hartgerink, C. H. J., Van Assen, M. A. L. M., Epskamp, S., & Wicherts, J. M. (2015, March). *The prevalence of reporting errors in psychology: An automated approach.* Paper presented at the International Convention of Psychological Science (ICPS), Amsterdam, The Netherlands.
- 2014 | **Nuijten, M. B.**, Van Assen, M. A. L. M., Veldkamp, C. L. S., & Wicherts, J. M. (2014, July). *The replication paradox: Combining studies can decrease accuracy of effect size estimates.* Paper presented at the 6th European Congress of Methodology, Utrecht, The Netherlands. **Awarded best presentation of a PhD student.**
- Nuijten, M. B.**, Van Assen, M. A. L. M., Veldkamp, C. L. S., & Wicherts, J. M. (2014, July). *The replication paradox: Combining studies can decrease accuracy of effect size estimates.* Paper presented at the 26th Annual Convention of the Association for Psychological Science, San Francisco, CA, USA.
- 2013 | **Nuijten, M. B.**, Van Assen, M. A. L. M. (2013, July). *The replication paradox: Replication studies decrease bias of estimated effect sizes only if they are powerful.* Paper presented at the 78th Annual Meeting of the Psychometric Society, Arnhem, The Netherlands.
- Nuijten, M. B.**, Van Assen, M. A. L. M. (2013, August). *The replication paradox: Replication studies decrease bias of estimated effect sizes only if they are powerful.* Tilburg University, Department of Social Psychology.

Posters

- 2014 | **Nuijten, M. B.**, Van Assen, M. A. L. M., Veldkamp, C. L. S., & Wicherts, J. M. (2014, September). *The replication paradox: Combining studies can decrease accuracy of effect size estimates.* Poster presented at the seminar ‘Improving Scientific Practice: Dealing with the Human Factors’, Amsterdam, The Netherlands.

2013 | **Nuijten, M. B.**, Van Assen, M. A. L. M., & Wicherts, J. M. (2013, December). *The replication paradox: Multiple studies with low power can increase bias*. Poster presented at the 23rd Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS) winter conference, Leuven, Belgium.