

Curriculum Vitae

Michèle B. Nuijten, PhD

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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

Academic Appointments

2018 – present	Assistant Professor, Tilburg University Assistant Professor (tenure track) at the department of Methodology and Statistics, Tilburg University.
2012–2017	PhD Candidate, Tilburg University PhD candidate at the department of Methodology and Statistics, Tilburg University. Project title: <i>Research on Research: A Meta-Scientific Study of Problems and Solutions in Psychological Science</i> .
March – Dec 2012	Research Assistant, University of Amsterdam Assisting prof. dr. Denny Borsboom in designing and monitoring an automatized tracking system that analyzes and reports longitudinal patient data.

Research Visits

April 1-6 2019	Research Visit to Melbourne University Consulting researcher for the DARPA SCORE grant of prof. dr. Fiona Fidler on estimating replicability of published papers.
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.

Education

2012–2017	PhD Methodology and Statistics, Tilburg University Project title: <i>Research on Research: A Meta-Scientific Study of Problems and Solutions in Psychological Science</i> . Supervisors: prof. dr. Jelte M. Wicherts and prof. dr. Marcel A. L. M. van Assen. Defense date: May 30, 2018. The full thesis is published online at https://psyarxiv.com/qt7e . Awarded the Tilburg University Dissertation Prize
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.

Additional Training

Feb 2021	Masterclass Supervising PhD Students A one-day masterclass on supervision of PhD students. Tilburg University.
2014–2019	University Teaching Qualification Successfully completed the UTQ training modules Teach, Plan, Test, and Supervise and wrote a portfolio listing and reflecting on my teaching experience. Tilburg University.
2012–2017	Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS) 10 ECTS in graduate level courses in statistics and psychometrics, attendance of IOPS conferences, reviewing IOPS proposals, discussant of talks at the IOPS conferences.
2008–2011	Honours Programme of Psychology 30 ECTS in addition to the regular Bachelor. University of Amsterdam.

Academic Activities and Memberships

2019 – present	Automated Screening Working Group Member of the Automated Screening Working Group that brings together meta-researchers and their tools from across different disciplines.
2018 – present	Science Committee Tilburg University Member of the Science Committee at the Tilburg School of Social and Behavioral Sciences. The Science Committee publishes a guideline on Data Handling and Methods Reporting and periodically investigates the quality of data handling and the reporting of research methods by researchers of the School.
2018 – present	Junior Staff Member of IOPS Junior Staff Member of the Interuniversity Graduate School for Psychometrics and Sociometrics (IOPS)

2017 – 2021	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 – 2019	Program Committee Replication Research NWO Advising NWO (The Netherlands Organization for Scientific Research) on distributing funding for replication research.
2018 – 2019	Program Committee SIPS Member of the program committee for the 2019 meeting of the Society for the Improvement of Psychological Science (SIPS) in Rotterdam, the Netherlands (approx. 250 attendees).
2017 – 2018	Program Committee Chair SIPS Chair of the program committee for the 2018 SIPS meeting in Grand Rapids, Michigan, USA (approx. 250 attendees).
2016 – 2018	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.
2014 – 2015	PhD Representative of 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.
2013 – 2014	Member of Organizing Committee Member of the organizing committee for the seminar ‘Improving Scientific Practice: Dealing with the Human Factors’.
2013 – 2014	Assistant PhD Representative IOPS Tasks consisted of attending IOPS board meetings, selecting reviewers for new IOPS proposals, chairing the IOPS PhD student meeting, and build and maintain the IOPS website.
2011 – 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.

Grants & Awards

Total grant/award money obtained: €352,151.43

Dec 2020	GRANT: Young eScientist Award (€50,000) Project: Implementing natural language processing in <i>statcheck</i> to extend its functionality beyond psychology. Co-application with Dr. Willem Slegers.
Nov 2020	GRANT: NWO Veni Grant (€250,000) Project: “The Four-Step Robustness Check: Assessing and Improving Robustness of Psychological Science”

- Oct 2020 **AWARD: Open Science Champion**
Named Open Science Champion by the Open Science Community Tilburg for my work on *statcheck* and for advocating Open Science throughout all my work.
- June 2020 **GRANT: Herbert Simon Research Institute Seed Funding for COVID-19 Research (€10,000)**
Project: “Employing meta-research to enrich COVID-19 preprints and study the impact of time pressure on research quality”. Co-application with Dr. Robbie van Aert and Prof. Jelte Wicherts.
- March 2020 **GRANT: Center for Open Science / SCORE project (\$10,536.56)**
As part of the SCORE project (Systematizing Confidence in Open Research and Evidence), the Center for Open Science (COS) contracted me to automatically extract statistical reporting errors from a large set of papers.
- Dec 2019 **AWARD: Best Course Award**
Award for the best Research Master Course 2018-2019 for my course on programming in R. Tilburg School of Social and Behavioral Sciences.
- Jan 2019 **GRANT: Invited Position Paper for ZonMw (€4,000 p.p.)**
A grant of the Dutch funder ZonMw to write a position paper about how funders can play a role in promoting responsible research practices, together with Joeri Tijdink (PI), Serge Horbach, and Gareth O’Neill.
- Jan 2019 **AWARD: Teacher of the Year**
Winner of the Tilburg University Teacher of the Year award 2019.
- Nov 2018 **AWARD: Tilburg University Dissertation Prize (€4,000)**
Winner of the Tilburg University Dissertation Prize 2018.
- Sep 2017 **AWARD: Publons’ Sentinel Award: Runner-Up**
statcheck was named runner-up for Publons’ Sentinel Award for outstanding advocacy, innovation or contribution to scholarly peer review.
- April 2017 **GRANT: Campbell Methods Grant (\$20,000)**
A \$20,000 methods grant (CMG2.02) 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 **AWARD: 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 **GRANT: 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 **AWARD: 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.

Editorial Activities

My Publons Peer Review account can be found at <https://publons.com/author/1340092/michele-b-nuijten#profile>

Editorial Boards

2020 – present	Nature: Scientific Reports Editorial Board member of <i>Nature: Scientific Reports</i> , Registered Reports section.
2018 – present	Collabra: Psychology Editor for the open access journal <i>Collabra: Psychology</i> , the official journal of the Society for the Improvement of Psychological Science (SIPS).
2018 – present	Meta-Psychology Advisory Board member for the free open access journal Meta-Psychology.
2017 – present	Personality and Social Psychology Bulletin Consulting Editor for the <i>Personality and Social Psychology Bulletin</i> .

Reviewing

April 2017	SSMART 2017 Review Committee Member of the review committee of the Social Science Meta-Analysis and Research Transparency (SSMART) grants (\$60,000 in total), initiated by the Berkeley Initiative for Transparency in the Social Sciences (BITSS).
2013 – present	Ad Hoc Reviewing Advances in Methods and Practices in Psychological Science Behavior Research Methods BMJ Open Science Collabra: Psychology Educational and Psychological Measurement European Science Editing International Journal of Psychology Journal of Cross-Cultural Psychology Journal of Experimental Social Psychology Journal of Mathematical Psychology Journal of Media Psychology Journal of Official Statistics Journal of Open Psychology Data Meta-Psychology Nature Communications Nature Human Behaviour PeerJ Personality and Social Psychology Bulletin Perspectives on Psychological Science PLoS Biology PLoS One PNAS Psychological Methods Psychology Learning & Teaching Quantitative & Computational Methods in the Social Sciences

Review of General Psychology
Royal Society Open Science

Teaching

2016 – present	Introduction to Research Methodology Lecturer and coordinator (from 2018 onwards) for the first years psychology course “Introduction to Research Methodology” (approx. 750 students). Tilburg University.
2018 – 2020	Programming in R Lecturer and coordinator for the Research Master course “Programming in R” (approx. 25 students). Tilburg University.
2018	Professional Skills: Ethical Issues Lecturer for the course “Professional Skills: Ethical Issues” (approx. 25 students). Tilburg University.
2013– 2016	Correlational Research Methods Supervising tutorials for the second year’s psychology course “Correlational Research Methods”. Tilburg University.
2012	Social Sciences in Perspective 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.
2012	SPSS Psychology Supervising practical sessions, grading assignments for the Bachelor of Psychology course “SPSS Psychology”. University of Amsterdam.
2012	Programming Skills: R Supervising practical sessions, grading assignments for the Research Master of Psychology course “Programming Skills: R”. University of Amsterdam.

Supervision

PhD Students

2018	Esther Maassen Project title: Structural equation modeling as an antidote to selective outcome reporting.
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Students

- 2021 **Hongwei Zhao**
Research Master's traineeship: Creating automated reports of statistical inconsistencies in COVID-19 preprints. Co-supervisor: Robbie van Aert.
- Arian Sarwary**
Research Master's traineeship: Assessing the robustness of findings in psychological papers by applying the 4-step robustness check.
- 2020 **Erenay Bilgin**
Bachelor's thesis: Investigating the relation between pre-registrations and p-values.
- Martijn Schoenmakers**
Research Master's traineeship: Predicting the number of (gross) inconsistencies between reported and recalculated p-values in papers.
- Selim Sametoglu**
Research Master's traineeship: Calculating interrater reliability in coded data about citation bias.
- Emre Alagöz**
Research Master's programming traineeship: Creating a Shiny application to illustrate p-hacking behaviours in psychological research.
- 2019 **Laura Squeri**
Bachelor's thesis: Authoritative parenting and the child's academic achievement: a meta-analysis.
- Emily Kubin**
Research Master's programming traineeship: Creating a function to find possible causes for errors found by statcheck.
- Sophie de Munck**
Research Master's thesis: Registered reports and statistical reporting inconsistencies in psychology.
- Sander Vermeulen**
Research Master's programming traineeship: Creating a function to find possible causes for errors found by statcheck.
- Ran Wang**
Research Master's traineeship: Develop a coding protocol to identify key results in psychology papers.
- Edoardo Costantini**
Research Master's programming traineeship: Implement a new way of converting PDF files to plain tex and developed unit tests for the R package statcheck.
- 2014 **Chris Hartgerink**
Research Master's programming traineeship: Detecting chi-square tests with the R package statcheck and creating inline documentation.
- 2013 **Jeroen Borghuis**
Research Master's traineeship: Compare statistical reporting inconsistencies in papers with and without data sharing policy.

Publications

Publications in Peer Reviewed Journals

- 2021 | Tijdink, J., Horbach, S. P. J. M., **Nuijten, M. B.**, & O'Neill, G., (in press). Towards a research agenda for promoting responsible research practices. *Journal of Empirical Research on Human Research Ethics*.
- Nosek, B. A., Hardwicke, T. E., Moshontz, H., Allard, A., Corker, K. S., Almenberg, A. D., Fidler, F., Hilgard, J., Kline, M., **Nuijten, M. B.**, Rohrer, J. M., Romero, F., Scheel, A. M., Scherer, L., Schnbrodt, F., & Vazire, S. (in press). Replicability, robustness, and reproducibility in psychological science. *Annual Review of Psychology*. doi: 10.31234/osf.io/ksfvq. URL
- Hardwicke, T. E., Bohn, M., MacDonald, K., Hembacher, E., **Nuijten, M. B.**, Peloquin, B. N., . . . Frank, M. C. (2021). Analytic reproducibility in articles receiving open data badges at the journal Psychological Science: an observational study. *Royal Society Open Science*, 8, 201494. doi: 10.1098/rsos.201494. URL
- 2020 | **Nuijten, M. B.**, Van Assen, M. A. L. M., Augusteijn, H. E. M., Cromptvoets, E. A. V., & Wicherts, J. M. (2020). Effect sizes, power, and biases in intelligence research: a meta-meta-analysis. *Journal of Intelligence*, 8(4), 36. URL
- Nuijten, M. B.**, & Polanin, J. R. (2020). “statcheck”: Automatically detect statistical reporting inconsistencies to increase reproducibility of meta-analyses. *Research Synthesis Methods*.11, 574-579. doi: 10.1002/jrsm.1408. URL
- Maassen, E., Van Assen, M. A. L. M., **Nuijten, M. B.**, Olsson-Collentine, A., & Wicherts, J. M. (2020). Reproducibility of individual effect sizes in meta-analyses in psychology. *PLoS One*, 15(5), e0233107. doi: 10.1371/journal.pone.0233107. URL
- 2019 | Stoevenbelt, A. H., **Nuijten, M. B.**, Pauli, B. E., & Wicherts J. M. (2019). Rule out conflicts of interest in psychology awards. *Nature*, 572, 312. doi: 10.1038/d41586-019-02429-3. URL
- 2018 | Polanin, J. R., & **Nuijten, M. B.** (2018). Verifying the accuracy of statistical significance testing in Campbell Collaboration systematic reviews through the use of the R package statcheck. *Campbell Systematic Reviews: Methods Research Papers*. doi: 10.4073/csr.2018.1. URL
- Nuijten, M. B.** (2018). Practical tools and strategies for researchers to increase replicability. *Developmental Medicine & Child Neurology*, 61(5), 535-539. doi: 10.1111/dmcn.14054 URL
- Nuijten, M. B.**, Bakker, M., Maassen, E., & Wicherts, J. M. (2018). Verify original results through reanalysis before replicating. *Behavioral and Brain Sciences*, 41, e143. doi: 10.1017/S0140525X18000791 URL
- Colombo, M., Duev, G., **Nuijten, M. B.**, & Sprenger, J. (2018). Statistical reporting inconsistencies in experimental philosophy. *PLoS ONE*, 13(4), e0194360. doi: 10.1371/journal.pone.0194360. URL
- 2017 | **Nuijten, M. B.** (2017). Share analysis plans and results. *Nature*, 551, 559. URL

- 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. *Collabra: Psychology*, *3*(1), 1-22. doi: 10.1525/collabra.102. URL
- 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. URL
- 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. URL
- Nuijten, M. B.** (2016). Vals positieven: Geen gebrek aan integriteit, maar een teveel aan flexibiliteit. *Tijdschrift voor Taalbeheersing*, *38*(2), 175-180. URL
- Nuijten, M. B.** (2016). Preventing statistical errors in scientific journals. *European Science Editing*, *42*(1), 8-10. URL
- 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. URL
- 2015 **Nuijten, M. B.**, Hartgerink, C. H. J., Van Assen, M. A. L. M., Epskamp, S., & Wicherts, J. M. (2015). The prevalence of statistical reporting errors in psychology (1985-2013). *Behavior Research Methods*, *48*, 1205-1226. doi: 10.3758/s13428-015-0664-2. URL
- Open Science Collaboration (2015). Estimating the reproducibility of psychological science. *Science*, *349*(6251). DOI: 10.1126/science.aac4716. URL
- 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. URL
- 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. URL
- 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. URL
- 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. URL

Preprints

- preprints | Hardwicke, T. E., Szűcs, D., Thibault, R. T., Crüwell, S., Van den Akker, O. R., **Nuijten, M. B.**, & Ioannidis, J. P. A. (2021). *Post-replication citation patterns in psychology: Four case studies*. MetaArXiv. <https://doi.org/10.31222/osf.io/wt5ny>
- Nuijten, M. B.**, Van Assen, M. A. L. M., Hartgerink, C. H. J., Epskamp, S., & Wicherts, J. M. (2017). *The validity of the tool statcheck in discovering statistical reporting inconsistencies*. PsyArXiv. <https://psyarxiv.com/tcxaj>

Books and Book Chapters

- 2021 | **Nuijten, M. B.** (*accepted chapter*). Assessing and improving robustness of psychological research findings in four steps. In W. ODonohue, A. Masuda, and S. Lilienfeld (Eds.), *Clinical psychology and questionable research practices*. Springer. URL
- 2020 | **Nuijten, M. B.** (2020). *Efficient scientific self-correction in times of crisis*. In E. Aarts, H. Fleuren, M. Sitskoorn & T. Wilthagen (Ed.), *The new common* (pp. 161-167). Springer. doi:10.1007/978-3-030-65355-2 URL
- 2018 | **Nuijten, M. B.** (2018). *Research on research: a meta-scientific study of problems and solutions in psychological science*. Doctoral dissertation. URL
- 2017 | Lunansky, G., **Nuijten, M. B.**, Deserno, M. K., Cramer, A. O. J., & Borsboom, D. (2017). *Een symptoom komt nooit alleen: Psychologische stoornissen als complexe netwerken* [A symptom never comes alone: Psychological disorders as complex networks]. In E. H. M. Eurelings-Bontekoe, R. Verheul, & W. M. Snellen (Ed.), *Handboek persoonlijkheidspathologie* [Handbook of Personality Pathology] (pp. 245-266). Houten, The Netherlands: Bohn Stafleu van Loghum.

Software

- 2014 | 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>. See the web app at <http://statcheck.io> and the developmental version at <https://github.com/michelenuijten/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>. See the developmental version at <https://github.com/michelenuijten/BayesMed>

Popular Press Outlets, Blogs

- 2020 **Nuijten, M. B.** (2020). Statcheck: een spellingchecker voor statistiek [*Statcheck: a spellchecker for statistics*]. *STATOR*. URL
- 2018 Chartier, C., Kline, M., McCarthy, R., **Nuijten, M. B.**, Dunleavy, D. J., & Ledgerwood, A. (2018). The cooperative revolution is making psychological science better: an open letter to producers and consumers of psychological science. *The APS Observer*. URL
- Chartier, C. R., Kline, M. E., McCarthy, R. J., **Nuijten, M. B.**, Dunleavy, D. J., & Ledgerwood, A. A cooperative revolution in psychology. *The Chronicle of Higher Education*. URL
- Nuijten, M. B.** (2018). statcheck - a spellchecker for statistics. *LSE Impact Blog*. URL
- 2017 **Nuijten, M. B.** (2017). Journal policies that encourage data sharing prove extremely effective. *LSE Impact Blog*. URL
- Nuijten, M. B.** (2017). BayesMed and statcheck. *The APS Observer*. URL
- 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*.

Publicity

- 2020 **ScienceGuide** - Onstuimig onderzoek benadrukt de uitdagingen van de wetenschap.
- The New York Times** - Do you have a conflict of interest? This robotic assistant may find it first.
- 2019 **NWO: Onderzoek** - Dit gaat niet over de boeven, het gaat over ons.
- Nature** - How a data detective exposed suspicious medical trials.
- eLife** - Innovator Story: Learning from errors.
- Vox** - The military wants to build a bullshit detector for social science studies.
- KennisCafé** - Guest at KennisCafé: Foute Avond". An event where scientists and other experts discuss a certain topic for a laymens audience. The KennisCafé is a production of NEMO Science Museum, KNAW, de Volkskrant, and de Balie.
- Science Disrupt** - Guest at the podcast "Science Disrupt: Innovator Stories - Episode 1".
- 2018 **Nature** -AI peer reviewers unleashed to ease publishing grind.
- Science** -This research group seeks to expose weaknesses in science - and they'll step on some toes if they have to.
- Dr Kelder & Co** - Radio interview about my dissertation for the Dutch radio show "Dr Kelder & Co", on NPO Radio 1.
- The Bayes Factor** - Guest on the podcast *The Bayes Factor* in an episode on organizing and attending SIPS, open science, and teaching, hosted by Alexander Etz and JP de Ruiter.

- 2017 **Science** -Controversial software is proving surprisingly accurate at spotting errors in psychology papers.
- New Scientist** -Onderzoek moet gepubliceerd worden, ongeacht de uitkomst.
- NEMO KennisLink** -Fouten filteren uit de wetenschap.
- Technologist** - Replication: how to address failure.
- SPSP Expert Video Series** - Short video on Data Sharing and Open Data for the SPSP Experts video series, created in collaboration with SIPS and the OSF.
- The Guardian** - Guest on the podcast on the Guardians Science Weekly Podcast with Hannah Devlin.
- PLOScast** - Guest on the podcast *PLOScast* in an episode on statcheck and the replication crisis, hosted by Elizabeth Seiver.
- Everything Hertz** - Guest on the podcast *Everything Hertz* in an episode on statcheck and meta-science, hosted by Daniel Quintana and James Heathers.
- The Guardian** - The hi-tech war on science fraud.
- 2016 **Nature** - Post-publication criticism is crucial, but should be constructive: In an era of online discussion, debate must remain nuanced and courteous.
- Nature** - Stat-checking software stirs up psychology.
- VICE** - Scientists are worried about ‘peer review by algorithm’.
- Vox** - A bot crawled thousands of studies looking for simple math errors. The results are concerning.
- HowStuffWorks** - Statcheck: when bots ‘correct’ academics.
- de Volkskrant** - Worden sociale wetenschappen geterroriseerd door jonge onderzoekers?: Oorlog onder psychologen.
- 2015 **Nature** - Smart software spots statistical errors in psychology papers: One in eight articles contain data-reporting mistakes that affect their conclusions.
- BNR Nieuwsradio**. Radio interview.
- de Volkskrant** - ‘Grove onzorgvuldigheden’ in deel psychologische studies: Gevolgen voor uitkomst in 1 op 8 papers.
- NRC Handelsblad** - Psycholoog tobt met statistiek.
- de Volkskrant** - De psychologie van gebrekkig onderzoek.
- 2014 **De Psychonoom** - Replication Paradox: Met Michèle Nuijten.
- Eos Wetenschap** - Barsten in betrouwbaarheid.

Invited Presentations

- 2020 **Nuijten, M. B.** (2020, December). *Op naar robuustere fast science [Towards robust fast science]*. KNAW webinar: “Onstuimig Onderzoek: Metaperspectieven op Coronawetenschap”, Amsterdam, The Netherlands.
- Nuijten, M. B.** (2020, November). *Evaluating psychological science: the good, the bad, and the questionable*. Online Winter Workshop: “Philosophy and Methods of Science”. Villanova University, PA, USA.

- Nuijten, M. B.** (2020, October). *A 4-step robustness check*. Online symposium for the launch of the National Survey of Research Integrity, Amsterdam, The Netherlands.
- Nuijten, M. B.** (2020, October). *A 4-step robustness check*. Center for Open Science webinar, VA, USA.
- Nuijten, M. B.** (2020, February). *Checking robustness in 4 steps*. Webcast Series on Transparency, Project TIER.
- 2019 **Nuijten, M. B.** (2019, December). *Checking robustness in 4 steps*. Replication Day, Society for Statistics and Operations Research (VVSOR), Utrecht, the Netherlands.
- Nuijten, M. B.** (2019, November). *Practical tools and strategies to increase replicability*. MiRoR Conference on Meta-Research for Transforming Clinical Research, Académie Nationale de Médecine, Paris, France.
- Nuijten, M. B.** (2019, October). *'statcheck' - a spellchecker for statistics*. METAxDATA - Building Automated Screening Tools for Data-Driven Meta-Research, Berlin Institute of Health, Quest Center, Berlin, Germany.
- Nuijten, M. B.** (2019, September). *Checking robustness in 4 steps*. Metascience Symposium, Stanford University, CA, USA.
- Nuijten, M. B.** (2019, February). *Statistical errors and questionable research practices and Open science and open data in psychology*. Two workshops for the international Winter School "Modern statistical approaches in psychological science", Padova, Italy.
- 2018 **Nuijten, M. B.** (2018, December). *How meta-analyses can always prove you right (even when you're wrong)*. Invited presentation for EPP, a postgraduate school for experimental psychopathology, Heeze, The Netherlands.
- Nuijten, M. B.** (2018, September). *Open source and open science software*. RKTSS Workshop: Solid Science Training, European Association of Social Psychology, Bordeaux, France.
- Brown, N., Heathers, J., & **Nuijten, M. B.** (2018, June). *Checking yourself and others: using free tools to detect statistical problems in papers*. Workshop at the third annual meeting of the Society for the Improvement of Psychological Science (SIPS), Grand Rapids, MI, USA.
- Nuijten, M. B.** (2018, June). *Using "statcheck" to detect misreported statistics in the scientific literature & other ways to improve science*. Invited presentation for the department of Psychology, Humboldt University, Berlin, Germany.
- Nuijten, M. B.** (2018, April). *Scientific misconduct and researcher degrees of freedom: How methodological and statistical decisions can influence conclusions*. Invited presentation for the BITSS Research Transparency and Reproducibility Workshop, Amsterdam, The Netherlands.
- Nuijten, M. B.** (2018, April). *statcheck: automatically extract statistics and recalculate p-values*. Invited presentation for the BITSS Research Transparency and Reproducibility Workshop, Amsterdam, The Netherlands.
- Nuijten, M. B.** (2018, February). Invited presentation about the use of text and data mining at the European Commission, Brussels, Belgium.

- Nuijten, M. B.** (2018, February). *Using “statcheck” to detect misreported statistics in the scientific literature & other ways to improve science*. Invited presentation for the department of Psychology, Cardiff, Wales.
- 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

- 2019 **Nuijten, M.B.** (2019, March). *Improving the quality of our research one step at a time*. Symposium chair, International Convention of Psychological Science (ICPS), Paris, France.
- Nuijten, M.B.** (2019, March). *Teaching Open Science: Turning Students into Skeptics, not Cynics*. Presentation at the International Convention of Psychological Science (ICPS), Paris, France.
- 2018 **Nuijten, M. B.** (2018, July). *Using “statcheck” to detect and prevent statistical reporting inconsistencies*. Presentation at the tenth International Conference on Teaching Statistics (ICOTS), Kyoto, Japan.
- Nuijten, M. B.** (2018, March). *Meta-science: a promising way to improve psychological science*. Presentation at the 2018 SPSP Annual Convention, Atlanta, GA, USA.
- Nuijten, M. B.** (2018, March). *“statcheck”: Automatically extract statistics and recalculate p-values*. Presentation for the SIPS preconference at the 2018 SPSP Annual Convention, Atlanta, GA, USA.
- 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., Crompvoets, 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.