








# Anne M. Scheel

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## ACADEMIC APPOINTMENTS

- since 10/2022 **Utrecht University**  
Assistant professor, Department of Methodology & Statistics
- 2022 **Vrije Universiteit Amsterdam & Universiteit Leiden**  
Postdoctoral researcher, Department of Philosophy (VU Amsterdam) & Centre for Science and Technology Studies (Leiden University)
- 2017–2021 **Eindhoven University of Technology**  
Ph. D. researcher, School of Innovation Science, Human-Technology Interaction
- 2014–2017 **Ludwig-Maximilians-Universität Munich**  
Research associate, Psychology Department








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## EDUCATION

- since 10/2017 Ph. D. candidate, *Eindhoven University of Technology*
- 2014 M. Sc. Research Methods in Psychological Science, *University of Glasgow*
- 2012 B. Sc. (Hons) Psychology, *University of Heidelberg*

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## PEER-REVIEWED PUBLICATIONS

- 2022 Why most psychological research findings are not even wrong  
  Scheel, A.M.  
*Infant and Child Development*, 31(1), e2295. DOI: 10.1002/icd.2295
- 2022 Replicability, robustness, and reproducibility in psychological science  
  Nosek, B.A., Hardwicke, T.E., Moshontz, H., Allard, A., Corker, K.S., Dreber, A., Fidler, F., Hilgard, J., Kline Struhl, M., Nuijten, M., Rohrer, J., Romero, F., Scheel, A.M., Scherer, L., Schönbrodt, F.D., & Vazire, S.  
*Annual Review of Psychology*, 73(1), 719–748. DOI: 10.1146/annurev-psych-020821-114157, preprint DOI (OA): 10.31234/osf.io/ksfvq
- 2021 An excess of positive results: Comparing the standard psychology literature with Registered Reports  
    
Scheel, A.M., Schijen, M.R.M.J., & Lakens, D.  
*Advances in Methods and Practices in Psychological Science*, 4(2). DOI: 10.1177/25152459211007467

- 2021 Why hypothesis testers should spend less time testing hypotheses  
 @  Scheel, A.M., Tiokhin, L., Isager, P.M., & Lakens, D.  
*Perspectives on Psychological Science*, 16(4), 744–755.  
 DOI: 10.1177/1745691620966795
- 2020 Improving inferences about null effects with Bayes factors and equivalence tests  
  Lakens, D., McLatchie, N., Isager, P.M., Scheel, A.M., & Dienes, Z.  
*The Journals of Gerontology: Series B*, 75(1), 45–57. DOI: 10.1093/geronb/gby065,  
 preprint DOI (OA): 10.31234/osf.io/qtzwr
- 2018 Equivalence testing for psychological research: A tutorial  
 @  Lakens, D., Scheel, A.M., & Isager, P.M.  
*Advances in Methods and Practices in Psychological Science*, 1(2), 259–269. DOI:  
 10.1177/2515245918770963
- 2018 The costs and benefits of replication studies  
 Coles, N.A., Tiokhin, L., Scheel, A.M., Isager, P.M., & Lakens, D.  
*Behavioral and Brain Sciences*, 41, E124. DOI: 10.1017/S0140525X18000596, preprint  
 DOI (OA): 10.31234/osf.io/c8akj
- 2018 Methodological problems in a study of fetal visual perception  
 Scheel, A.M., Ritchie, S.J., Brown, N.J.L., & Jacques, S.L.  
*Current Biology*, 28(10), R594–R596. DOI: 10.1016/j.cub.2018.03.047, preprint DOI  
 (OA): 10.31234/osf.io/2vgcw
- 2017 Intrinsic altruism or social motivation — what does pupil dilation tell us about children's  
 @ helping behavior?  
 Pletti, C., Scheel, A.M., & Paulus, M.  
*Frontiers in Psychology*, 8:2089. DOI: 10.3389/fpsyg.2017.02089
- 2016 Logistic mixed models to investigate implicit and explicit belief tracking.  
 @ Lages, M. & Scheel, A.M.  
*Frontiers in Psychology*, 7:1681, DOI: 10.3389/fpsyg.2016.01681

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## NON-PEER-REVIEWED PUBLICATIONS

- 2022 Responsible Research Assessment I: Implementing DORA for hiring and promotion in  
 @ psychology  
 Schönbrodt, F.D., Gärtner, A., Frank, M., Gollwitzer, M., Ihle, M., Mischkowski, D.,  
 Phan, L.V., Schmitt, M., Scheel, A.M., Schubert, A.-L., Steinberg, U., & Leising, D.  
*PsychArchives* [preprint]. DOI: 10.23668/psycharchives.8162
- 2022 Strengthening derivation chains in cognitive neuroscience: A special issue of *Cortex*  
 @ Mirman, D., Scheel, A.M., Schubert, A.-L., & McIntosh, R.D.  
*Cortex*, 146, A1–A4. DOI: 10.1016/j.cortex.2021.12.002
- 2020 Registered Reports: A process to safeguard high-quality evidence  
 Scheel, A.M.  
*Quality of Life Research*, 29(12), 3181–3182. DOI: 10.1007/s11136-020-02698-w,  
 preprint DOI (OA): 10.31234/osf.io/b4xr5
- 2020 Data management and data sharing in psychological science: Revision of the DGPs  
 recommendations  
 Gollwitzer, M., Abele-Brehm, A., Fiebach, C., Ramthun, R., Scheel, A.M., Schönbrodt,  
 F.D., & Steinberg, U.  
 [German version] *Psychologische Rundschau*, 72(2), 132–146.  
 DOI: 10.1026/0033-3042/a000514  
 [English version] *PsyArXiv*. Preprint DOI: 10.31234/osf.io/24ncs

- 2017 FAQ zu Open Data und Open Science in der Sportpsychologie  
⑧ Schönbrodt, F.D. & Scheel, A.M.  
*Zeitschrift für Sportpsychologie*, 24(4), 134–139. DOI: 10.1026/1612-5010/a000217

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## AWARDS & SCHOLARSHIPS

- 2017 Travel bursary for the residential workshop ‘Advanced Methods for Reproducible Science’ at Cumberland Lodge, Windsor Great Park, UK  
Funded by the Biotechnology and Biological Sciences Research Council (BBSRC) and the European Network for Collaborative Practice (ENCP)
- 2014 Best-Overall-Performance Award, School of Psychology, University of Glasgow  
Ranked top of class of both taught MSc courses at the department (£ 150 book token)
- 2013–2014 Foreign exchange scholarship, Studienstiftung des deutschen Volkes (German National Academic Foundation)
- 2010–2014 Academic scholarship with stipend, Studienstiftung des deutschen Volkes (German National Academic Foundation)

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## CONFERENCE ACTIVITY

- 2022 Scheel, A.M., Traag, V., & de Ridder, J. (2022, September). *Comparing epistemic progress in ex-post and ex-ante peer review*. Talk at the annual conference of the European Network for the Philosophy of the Social Sciences (ENPOSS) 2022, Málaga, Spain.
- 2022 Scheel, A.M. (2022, July). *Replication crisis, remedies, & risks: The perspective of psychology*. Talk at the European Conference of Science Journalism 2022, Leiden, The Netherlands.
- 2021 Scheel, A.M. (2021, September). *Do Registered Reports reduce publication bias?* Talk at Meta Science 2021 (global virtual conference). [slides] [recording]
- 2019 Scheel, A.M. (2019, August). *Advantages of protocol publication: Registered Reports*. Talk at the International Society for Environmental Epidemiology 2019, Utrecht, The Netherlands. [slides]
- 2019 Scheel, A.M. (2019, March). *Positive result rates in psychology: Registered Reports compared to the conventional literature*. Talk at Open Science 2019 (organised by the Leibniz Institute for Psychology, ZPID), Trier, Germany. [slides]
- 2018 Scheel, A.M. (2018, September). *Equivalence testing for psychological research*. Talk at the 51<sup>st</sup> conference of the German Psychological Society (DGPs), Frankfurt am Main, Germany. [slides]
- 2018 Scheel, A.M. (2018, July). *Preregistration: A practical guide for developmental researchers*. Talk at the International Congress on Infant Studies, Philadelphia, PA, USA. [slides]
- 2016 Paulus, M., Scheel, A., Brauer, J., & Friederici, A.D. (2016, September). *The development of the understanding of nested structures in language and action*. Poster presented at the 50<sup>th</sup> conference of the German Psychological Society (DGPs), Leipzig, Germany.
- 2016 Scheel, A. & Paulus, M. (2016, January). *Do ostensive cues influence which actions 1- and 2-year-olds imitate?* Poster presented at the Budapest CEU Conference on Cognitive Development (BCCCD), Budapest, Hungary.

- 2013 Scheel, A. & Träuble, B. (2013, January). *The role of agent action for causal reasoning in infancy*. Poster presented at the Budapest CEU Conference on Cognitive Development (BCCCD), Budapest, Hungary.
- 2013 Bätz, J., Scheel, A., Richert, J., & Träuble, B. (2013, January). *Infants favor functional information in an ostensive learning context*. Poster presented at the Budapest CEU Conference on Cognitive Development (BCCCD), Budapest, Hungary.

## TEACHING EXPERIENCE

### student supervision

- 2020–2021 **Master's research project of Isabel Blijenburg, Nienke de Jongh, and Thijs Joosten**, Master's course 'HTI Research Project', in which students plan and conduct an empirical study over one semester in a small group, TU Eindhoven  
Project title: 'The prior probability of hypotheses in Registered Reports and standard reports'
- 2019 **Bachelor end project of Tim Jongenelen**, TU Eindhoven  
Thesis title: 'Estimating time-to-publication in psychology and neuroscience'
- 2018 **Bachelor end project of Mitchell Schijen**, TU Eindhoven  
Thesis title: 'Positive result rates in psychology: Registered Reports compared to conventional reports: a meta-analysis using Fanelli's method'
- 2016–2017 **Dissertation of Theresa Pichlmeier** (*Zulassungsarbeit*; German educational degree), LMU Munich  
Dissertation title: 'Imitationsverhalten im Säuglingsalter in Abhängigkeit von ostensiven Signalen und Handlungseffekten' (Imitation behaviour in infancy depending on ostensive signals and action effects)

### lectures, seminars, workshops

- 06/2022 CWTS Scientometrics Summer School 2022 (lecture on meta-science), CWTS Leiden
- 2017–2020 Undergraduate course 'OGO Quantitative Research' (lecture on replication), TU Eindhoven
- 2018–2020 Undergraduate course 'Introduction Psychology and Technology' (lecture on developmental psychology), TU Eindhoven
- 2020 Master's course 'Introduction to Human-Technology Interaction' (lecture on meta-science), TU Eindhoven
- 2018–2019 Master's course 'Advanced Cognition' (lecture on imitation), TU Eindhoven
- 29/11/2016 Postgraduate workshop on preregistration (jointly taught with Dr Felix Schönbrodt and Dr Clemens Stachl), LMU Munich [slides]
- 2016 Undergraduate course 'Developmental Psychology of Childhood and Adolescence' (two lectures), LMU Munich
- 2015 Undergraduate advanced course 'Developmental Psychology', LMU Munich

### tutoring and grading

- 2017–2020 Undergraduate course 'OGO Quantitative Research', TU Eindhoven
- 2018–2020 Undergraduate course 'Brain, Body & Behavior', TU Eindhoven
- 2018–2019 Undergraduate course 'Social Psychology and Consumer Behavior', TU Eindhoven
- 2018–2019 Undergraduate course 'Thinking and deciding', TU Eindhoven
- 2018 Undergraduate course 'Human Factors', TU Eindhoven
- 2015–2017 Graded written exams for several undergraduate courses in developmental psychology, LMU Munich

- 2015–2016 Graded state examination assignments (*Staatsexamen*; extensive written exams for the German educational degree) of Bavarian teacher trainees, LMU Munich
- 2014 Teaching assistant for a Master's course on eye tracking, LMU Munich
- 2013 Graduate teaching assistant to support undergraduate students with data analysis, University of Glasgow

## SERVICE

- committees, boards, groups
  - Netherlands Reproducibility Network (NLRN): steering group (since 2022)
  - Open Science team FAIR data & software at Utrecht University (since 2022)
  - Open Science team of the Faculty of Social and Behavioural Sciences at Utrecht University (since 2022)
  - Open Science Commission of the German Psychological Society (DGPs; since 2019)
  - UK Reproducibility Network: advisory board (since 2019)
  - repliCATS project at the University of Melbourne: advisory board (since 2019)
  - Platform for Young Meta-Scientists (PYMS): founder (2018)
- membership
  - Deutsche Gesellschaft für Psychologie (DGPs; German Psychological Society)
- editorial
  - Guest editor of a special issue on 'Strengthening derivation chains in cognitive neuroscience' at *Cortex* (forthcoming in 2023)
  - Editorial board member at *Perspectives on Psychological Science* (since 2022)
  - Editorial board member at *Advances in Methods and Practices in Psychological Science* (since 2022)
  - Editorial board member at *Infant and Child Development* (since 2021)
  - Advisory board member at *Meta-Psychology* (since 2018)
- ad hoc reviewing
  - *BMJ Open Science*
  - *Cortex*
  - *European Journal for Philosophy of Science*
  - *Frontiers in Psychology*
  - *Infant Behavior and Development*
  - *Meta-Psychology*
  - *Neuropsychologia*
  - *PLOS Biology*
  - *PLOS ONE*
  - *Royal Society Open Science*
  - *Social Development*
  - *Social and Personality Psychology Compass*
  - *Zeitschrift für Psychologie*
- past activities
  - Ethical review board, Human-Technology Interaction group, TU Eindhoven (2018–2021)
  - Open Science Community at TU Eindhoven (2018–2021)
  - Open Science Committee at the Dept. of Psychology, LMU Munich (2015–2017)

## INVITED TALKS & WORKSHOPS

keynotes

- 30/06/2022 *A young person's guide to the credibility revolution*. 2<sup>nd</sup> Open Science Day, University of Graz, Institute of Psychology. [slides][recording]

29/10/2020 *A young person's guide to the credibility revolution.* (In)Credible Research (virtual conference), Berlin University Alliance. [slides][recording]

#### talks

- 2/5/2022 *Why hypothesis testers should spend less time testing hypotheses.* Morality Lab at Boston College.
- 10/2/2022 *Meaningful research questions need meaningful concepts.* Department of Experimental and Applied Psychology, VU Amsterdam.
- 11/6/2020 *Improving science with Registered Reports.* King's Open Research Conference (virtual conference), King's College London. [recording]
- 29/5/2020 *Vanguard and cannon fodder: ECRs on the front line of open science.* 2020 ReproducibiliTea Virtual Meeting (online conference), Surrey Reproducibility Society (virtual conference). [recording (from 0:01:36–0:46:00)]
- 18/5/2020 *An excess of positive results: Comparing the standard Psychology literature with Registered Reports.* Glasgow ReproducibiliTea journal club (virtual). [slides] [recording]
- 8/4/2020 *An excess of positive results: Comparing the standard Psychology literature with Registered Reports.* Open Science Community Rotterdam (virtual). [slides]
- 24/10/2019 *Equivalence testing for psychological research.* RIOT Science Club, King's College London, United Kingdom. [slides] [recording]
- 18/10/2019 *Is hypothesis testing overused in psychology?.* Methodology & Meta-Science Series at the School of Psychology, University of Glasgow, United Kingdom. [slides]
- 7/10/2019 *Equivalence testing for psychological research.* Department of Psychology, University of Zurich, Switzerland. [slides]
- 4/4/2019 *Is hypothesis testing overused in psychology (and elsewhere)?.* History and Philosophy of Science Seminars, University of Melbourne, Australia. [slides]
- 31/5/2018 *A meta-analytic perspective on reproducibility.* University of Warwick, UK. [slides]
- 14/2/2018 *Introduction to equivalence testing.* Radboud University, The Netherlands. [slides]
- 14/2/2018 *Social media for academics.* Radboud University, The Netherlands.
- 29/4/2017 *Improving the system from within: The Open Science Committee at LMU Munich.* Erasmus Mundus Symposium on Auditory Cognitive Neuroscience, Institute of Biology, University of Leipzig. [slides]

#### workshops

- 16/11/2018 *Open science practices for future-proof research* (full-day workshop). University of Gießen, Germany. [materials]
- 23/10/2018 *Improving the informational value of studies* (half-day workshop). University of Frankfurt, Germany.
- 12/7/2018 *Open science practices for future-proof research* (full-day workshop). EADM Summer School, Salzburg, Austria. [materials]
- 5/2/2018 *Roots of the replication crisis and basic fixes* (full-day workshop). Interuniversity Doctoral Program in Organismal Biology, University of Neuchâtel, Switzerland. [slides]
- 9/6/2017 *Open science practices for future-proof research: why and how* (full-day workshop). Georg-Elias-Müller-Institute of Psychology, Georg-August-University Göttingen, Germany. [materials]

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## MEDIA ATTENTION & OUTREACH

- newspapers & magazines
  - 'Revolution von unten' ('Revolution from below'), 5th January 2021, *Gehirn und Geist*, article by Michael Wenzler [\[link\]](#) (German only)
  - 'The speed of science', 30th May 2018, *Works in Progress*, article by Saloni Dattani & Nathaniel Bechhofer [\[link\]](#)
  - 'Humans are complicated—do we need behavioral science to get through this?', 16th May 2020, *Ars Technica*, article by Cathleen O'Grady [\[link\]](#)
  - 'Geek tip: if it doesn't say "Registered Report," don't trust it', 6th February 2020, *UnHerd*, article by Tom Chivers [\[link\]](#)
  - 'First analysis of 'pre-registered' studies shows sharp rise in null findings', 24th October 2018, *Nature*, article by Matthew Warren [\[doi: 10.1038/d41586-018-07118-1\]](#)
  - 'More and more scientists are preregistering their studies. Should you?', 21st September 2018, *Science*, article by Kai Kupferschmidt [\[doi: 10.1126/science.aav4786\]](#)
  - 'Is er wetenschap na Stapel?' ('Is there science after Stapel?'), 19th September 2018, *De Groene Amsterdammer*, article by Jop de Vrieze [\[link\]](#) (Dutch only)
  - 'The Viral 'Fetuses Recognize Faces' Theory Is Wrong', 30th May 2018, *The Daily Beast*, article by Cathleen O'Grady [\[link\]](#)
  - 'Böse Bildschirme' ('Evil screens'), 6th April 2017, *Süddeutsche Zeitung*, article by Ali Vahid Roodsari [\[link\]](#) (German only)
  - 'Nachgefragt: Imitieren Babys uns gar nicht?' ('Are babies not imitating us after all?'), July 2016, *Baby und Familie*, interview by Julia Jung
- radio
  - 'Null und wichtig?!' ('Zero and void?!'), 24th May 2020, *Deutschlandfunk* radio documentary by Magdalena Schmude about publication bias [\[link\]](#) (German only)
  - 'Die Fähigkeiten von Babys erforschen' ('Exploring the abilities of babies'), 18th May 2011, *BR* (Bavarian Broadcasting) radio documentary by Anne Kleinknecht about infant research at the Department of Psychology, University of Heidelberg
- podcasts
  - 'Anne Scheel: Why most psychological research findings are not even wrong', 15th September 2022, *Stanford Psychology Podcast* [\[link\]](#)
  - "'Scheel be right, mate" with Anne Scheel', 4th October 2020, *More of a Comment Than a Question* [\[link\]](#)
  - 'Episode 32 - Crisis Research With Anne Scheel', 7th April 2020, *ReproducibiliTea Podcast* [\[link\]](#)
  - '47: Truth bombs from a methodological freedom fighter (with Anne Scheel)', 7th July 2017, *Everything Hertz* [\[link\]](#)
- social media & blogs
  - Co-hosting *The 100% CI*, a blog on meta-science, with Dr Malte Elson, Dr Julia Rohrer, and Dr Ruben Arslan [\[link to my own blog contributions\]](#)
  - Co-moderated the German-language science communication project *Real Scientists DE* from 2017–2022 [\[link\]](#)
  - Curated the *Real Scientists DE* Twitter account for one week from 27/03 to 02/04/2017 [\[link\]](#) (German only)
  - Blog interview for *Cogtales*: 'An interview with a next generation methodological freedom fighter', 20th October 2016 [\[link\]](#)
  - Blog post co-authored with Etienne LeBel: 'Need for New Code of Ethics Compliance for Professional Researchers in Era of Hyper-Competitive High-Stake Academic Culture', 4th April 2017 [\[link\]](#)