

# Dr. Frederik Aust

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## Professional experience

**University of Cologne** 9/2023–present  
Research Methods and Experimental Psychology  
Cologne, DE  
**POSTDOCTORAL RESEARCHER**

**University of Amsterdam** 9/2020–8/2023  
Psychological Methods  
Amsterdam, NL  
**POSTDOCTORAL RESEARCHER**

- Topic: Bayesian hypothesis testing and cognitive modeling

**University of Missouri** 1–2/2017  
Perception and Cognition Lab  
Columbia, MO  
**VISITING RESEARCHER**

- Topic: Ordinal constraints in Bayesian hypothesis testing

**Leibniz Research Centre for Working Environment and Human Factors** 7/2012–11/2013  
Perceptual Cybernetics  
Dortmund, DE  
**RESEARCH ASSOCIATE**

## Education

**Ph.D. in Psychology** (summa cum laude) 12/2013–1/2021  
UNIVERSITY OF COLOGNE  
Cologne, DE

- Advisor: Dr. Christoph Stahl
- Title: "Exemplars as least-committed alternative to dual representations in learning and memory"

**Diploma in Psychology** (1.0) 10/2006–3/2012  
HEINRICH-HEINE-UNIVERSITY  
Düsseldorf, DE

- Advisor: Dr. Jochen Musch

## Competitive grants

Amsterdam Brain and Cognition Talent Grant for *Informative and efficient Bayesian hypothesis tests for lesion studies*; Principle investigators Drs. Eric-Jan Wagenmakers and Edward de Haan 2022  
125.000€

## Honors and awards

Pineapple Science Award from Zhejiang Science and Technology Museum, Hangzhou, China, for the article "Fair coins tend to land on the same side they started: Evidence from 350,757 flips" (Bartoš et al., 2023) 2023

Society for the Improvement of Psychological Science (SIPS) Mission Award for [tenzing](#) 2023

1. Prize in the 13th [Dissertation Competition](#) of the German Society for Psychology (DGPs) section General and Cognitive Psychology 2023

Society for the Improvement of Psychological Science (SIPS) Mission Award for the R package <a href="#">papaJa</a>	2019 \$500
Center for Open Science (COS) Preregistration Challenge Award for Aust, Haaf, & Stahl (2018)	2018 \$1.000
University of Cologne Graduate School travel awards (3)	2015–2017 3.278€
German Society for Psychology's (DGPs) section Methods and Evaluation travel award	2014 381€
Ruhr-University Bochum Graduate School travel award	2014 1.300€

## Service and professional activities

### MEMBERSHIP

- Society for Mathematical Psychology
- Psychological Science Accelerator

### CONSULTING

Member of the [JASP](#) team 11/2021–present

### DEPARTMENTAL AND UNIVERSITY SERVICES

Member of W3 Social Psychology chair appointments committee at the University of Cologne Psychology Department 2–7/2017

Together with Christoph Stahl, Christian Unkelbach, and Jan Crusius founded the [Open Science Working Group](#) at Psychology Department of the University of Cologne 2/2017–8/2021

Together with Tobias Heycke organized the doctoral student colloquium at the Psychology Department of the University of Cologne 3/2014–9/2016

### INTERNATIONAL WORKSHOP AND CONFERENCE ORGANIZATION

Member of the organizing committee of the joint gathering of the 56th Annual Meeting of the Society for Mathematical Psychology (MathPsych), the 21st International Conference on Cognitive Modeling (ICCM), and the 52nd Meeting of the European Mathematical Psychology Group (EMPG) at the University of Amsterdam, the Netherlands 18–21/7/2023  
200 talks  
7 workshops  
3 keynotes

Together with František Bartoš, Catherine Guazzone, Šimon Kucharský, Johnny van Doorn, Eric-Jan Wagenmakers, and Richard Morey, part of the organizing committee for the ninth annual two-day JASP workshop "Theory and Practice of Bayesian Hypothesis Testing" at the University of Amsterdam, the Netherlands, and online 15–16/7/2023  
55 participants

Together with František Bartoš, Frederik Aust, Catherine Guazzone, Manuel Villarreal, Lauren Montgomery, Šimon Kucharský, Don van den Bergh, Johnny van Doorn, Eric-Jan Wagenmakers, and Michael Lee, part of the organizing committee for the one-week "Eleventh Annual JAGS and Stan Workshop: Bayesian Modeling for Cognitive Science" at the University of Amsterdam, the Netherlands 10–14/7/2023  
37 participants

Together with František Bartoš, Lukas Lengersdorff, Alexandra Sarafoglou, Jonas Petter, Šimon Kucharský, Angelika Stefan, Don van den Bergh, Eric-Jan Wagenmakers, and Richard Morey, part of the organizing committee for the eighth annual two-day JASP workshop "Theory and Practice of Bayesian Hypothesis Testing" at the University of Amsterdam, the Netherlands, and online 29–30/8/2022  
55 participants

Together with František Bartšs, Lukas Lengersdorff, Alexandra Sarafoglou, Manuel Villarreal, Lauren Montgomery, Jonas Petter, Šimon Kucharský, Angelika Stefan, Johnny van Doorn, Eric-Jan Wagenmakers, and Michael Lee, part of the organizing committee for the one-week "Tenth Annual JAGS and Stan Workshop: Bayesian Modeling for Cognitive Science" at the University of Amsterdam, the Netherlands	22–26/8/2022 25 participants
Together with Angelika Stefan, Richard Morey, and Eric-Jan Wagenmakers part of the organizing committee for the seventh annual two-day JASP online workshop "Theory and Practice of Bayesian Hypothesis Testing"	26–27/8/2021 73 participants
Together with Tobias Heycke organized a one-day workshop "An Introduction to Bayesian Statistics: The Philosophy, Bayesian Linear Models, and Practical Data Analysis" taught by Richard D. Morey at the graduate school at University of Cologne Faculty of Human Sciences	23/10/2015 25 participants

## Reviewing and editorial services

### EDITORIAL SERVICES

Statistics, Transparency, and Rigor (STAR) editor for <i>Psychological Science</i>	1/2024–present
Editorial assistant for <i>Experimental Psychology</i>	4/2014–6/2018

### AD HOC REVIEWING

<ul style="list-style-type: none"> <li>Advances in Methods and Practices in Psychological Science (1)</li> <li>Behavior Research Methods (6)</li> <li>Cognition &amp; Emotion (2)</li> <li>Collabra Psychology (2)</li> <li>Computational Brain &amp; Behavior (2)</li> <li>Experimental Psychology (2)</li> <li>Journal of Cognitive Psychology (1)</li> <li>Journal of Experimental Psychology: General (2)</li> <li>Journal of Experimental Psychology: Human Perception and Performance (2)</li> <li>Journal of Experimental Psychology: Learning</li> </ul>	<ul style="list-style-type: none"> <li>Memory and Cognition (5)</li> <li>Journal of Individual Differences (1)</li> <li>Journal of Mathematical Psychology (1)</li> <li>Nature Communications (2)</li> <li>Neuroscience &amp; Biobehavioral Reviews (2)</li> <li>PeerJ Computer Science (2)</li> <li>Perspectives on Psychological Science (1)</li> <li>Proceedings of the Human Factors and Ergonomics Society Annual Meeting (1)</li> <li>Psychological Methods (7)</li> <li>Social Psychological Bulletin (1)</li> </ul>
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## Invited presentations

- Aust, F.** (2023a, June). *Exemplars as a least-committed alternative to dual-representations in learning and memory* [Invited talk at Abschlusssymposium of the 13. Dissertation Competition of the German Society for Psychology's (DGPs) section General and Cognitive Psychology, University of Siegen, Germany].
- Aust, F.** (2022, December). *Friends don't let friends copy-paste: Computationally reproducible apa-style manuscripts with the R package papaja* [Invited talk at Faculty of Psychology, University of Basel, Basel, Switzerland].
- Aust, F.** (2019a, December). *An alternative to copy-paste reporting: Create dynamic, submission-ready, APA-style manuscripts in R with papaja* [Invited talk at Psychological Methods Lab, Ruhr-University, Bochum, Germany].
- Aust, F.** (2017b, February). *A global-matching account of verbatim and gist processes in false recognition* [Invited talk at Quantitative Colloquium, Department of Psychological Sciences, University of Missouri, Columbia, MO].
- Aust, F.** (2015, May). *Incremental validity of Useful Field of View subtests for the prediction of instrumental activities of daily living* [Invited talk at Psychological Assessment and Differential Psychology Colloquium, Department of Experimental Psychology, Heinrich-Heine-University, Düsseldorf, Germany].

# Publications

† indicates shared first authorship, \* indicates supervised Master student

## PREPRINTS

- Bartoš, F., Sarafoglou, A., Godmann, H. R., Sahrani, A., Leunk, D. K., Gui, P. Y., Voss, D., Ullah, K., Zoubek, M. J., Nippold, F., **Aust, F.**, Vieira, F. F., Islam, C.-G., Zoubek, A. J., Shabani, S., Petter, J., Roos, I. B., Finnemann, A., Lob, A. B., ... Wagenmakers, E.-J. (2023). Fair coins tend to land on the same side they started: Evidence from 350,757 flips. <https://arxiv.org/abs/2310.04153>
- Aust, F.**, Van Doorn, J., & Haaf, J. M. (2022). Translating default priors from linear mixed models to repeated-measures ANOVA and paired t-tests. <https://psyarxiv.com/by2d9/>
- Sarafoglou, A., Kuhlmann, B. G., **Aust, F.**, & Haaf, J. M. (2022). Theory-informed refinement of bayesian hierarchical MPT modeling. <https://psyarxiv.com/kvyt5/>
- Heycke†, T., **Aust†, F.**, Banaji, M. R., Cone, J., Dessel, P. V., Ferguson, M., Hu, X., Jiang, E. C., Kurdi, B., Rydell, R., Spitzer, L., Stahl, C., Vitiello, C., & Houwer, J. D. (2020). Of two minds: A registered replication [Accepted in principle at *Psychological Science*]. <https://psyarxiv.com/v674w/>
- Stahl, C., & **Aust, F.** (2016). False memory for perceptually similar but conceptually distinct line drawings. <https://psyarxiv.com/zr7m8/>

## JOURNAL ARTICLES

- Diedenhofen, B., Hoffmann, A., **Aust, F.**, & Müller, S. (in press). Detecting applicant faking with a context-specific overclaiming questionnaire. *Journal of Individual Differences*. <https://doi.org/10.1027/1614-0001/a000411>
- Pawel, S., **Aust, F.**, Held, L., & Wagenmakers, E. J. (2023a). Power priors for replication studies. *TEST*. <https://doi.org/10.1007/s11749-023-00888-5>
- Pawel, S., **Aust, F.**, Held, L., & Wagenmakers, E. J. (2023b). Normalized power priors always discount historical data. *Stat*, 12, e591. <https://doi.org/10.1002/sta4.591>
- Sarafoglou, A., **Aust, F.**, Marsman, M., Bartoš, F., Wagenmakers, E. J., & Haaf, J. M. (2023). Multibridge: An R package to evaluate informed hypotheses in binomial and multinomial models. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-02020-1>
- Stahl, C., Bena, J., **Aust, F.**, Mierop, A., & Corneille, O. (2023). A conditional judgment procedure for probing evaluative conditioning effects in the absence of feelings of remembering. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-023-02081-w>
- Van Den Bergh, D., Wagenmakers, E. J., & **Aust, F.** (2023). Bayesian repeated-measures analysis of variance: An updated methodology implemented in JASP. *Advances in Methods and Practices in Psychological Science*, 6(2). <https://doi.org/10.1177/25152459231168024>
- Van Doorn, J., **Aust, F.**, Haaf, J. M., Stefan, A. M., & Wagenmakers, E. J. (2023). Bayes factors for mixed models. *Computational Brain & Behavior*, 6, 1–6. <https://doi.org/10.1007/s42113-021-00113-2>
- van Doorn, J., Haaf, J. M., Stefan, A. M., Wagenmakers, E., Cox, G. E., Davis-Stober, C. P., Heathcote, A., Heck, D. W., Kalish, M., Kellen, D., Matzke, D., Morey, R. D., Nicenboim, B., van Ravenzwaaij, D., Rouder, J. N., Schad, D. J., Shiffrin, R. M., Singmann, H., Vasisht, S., ... **Aust, F.** (2023). Bayes factors for mixed models: A discussion. *Computational Brain & Behavior*, 6, 140–158. <https://doi.org/10.1007/s42113-022-00160-3>
- Van Doorn†, J., **Aust†, F.**, Haaf, J. M., Stefan, A., & Wagenmakers, E. J. (2023). Bayes factors for mixed models: Perspective on responses. *Computational Brain & Behavior*, 6, 127–139. <https://doi.org/10.1007/s42113-022-00158-x>
- Yun-Hong, W., van den Bergh, D., **Aust, F.**, Ly, A., Wagenmakers, E.-J., & Chuan-Peng, H. (2023). 胡传鹏. 贝叶斯方差分析在 JASP 中的实现 [The implementation of Bayesian ANOVA in JASP: A practical primer]. *心理技术与应用 [Psychology: Techniques and Application]*, 11(9), 528–541. <http://www.xljy.com/CN/Y2023/V11/I9/528>

- Bartoš\*, F., **Aust, F.**, & Haaf, J. M. (2022). Informed bayesian survival analysis. *BMC Medical Research Methodology*, 22(1), 1–22. <https://doi.org/10.1186/s12874-022-01676-9>
- Kovacs, M., Holcombe, A., **Aust, F.**, & Aczel, B. (2021). Tenzing and the importance of tool development for research efficiency. *Information Services & Use*, 1, 1–9. <https://doi.org/10.3233/ISU-210109>
- Aust, F.**, & Stahl, C. (2020). The enhancing effect of 200 mg caffeine on mnemonic discrimination is at best small. *Memory*, 28(7), 858–869. <https://doi.org/10.1080/09658211.2020.1781899>
- Holcombe, A. O., Kovacs, M., **Aust, F.**, & Aczel, B. (2020). Documenting contributions to scholarly articles using CRediT and tenzing. *PLOS ONE*, 15(12). <https://doi.org/10.1371/journal.pone.0244611>
- Moran, T., Hughes, S., Hussey, I., Vadillo, M. A., Olson, M. A., **Aust, F.**, & Bading, K. (2020). Incidental attitude formation via the surveillance task: A preregistered replication of the Olson and Fazio (2001) study. *Psychological Science*, 0956797620968526. <https://doi.org/10.1177/0956797620968526>
- Aust, F.**, Haaf, J. M., & Stahl, C. (2019). A memory-based judgment account of expectancy-liking dissociations in evaluative conditioning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 45(3). <https://doi.org/10.1037/xlm0000600>
- Klein, O., Hardwicke, T. E., **Aust, F.**, Breuer, J., Danielsson, H., & Mohr, A. H. (2018). A practical guide for transparency in psychological science. *Collabra: Psychology*, 4(1). <https://doi.org/10.1525/collabra.158>
- Silberzahn, R., Uhlmann, E. L., Martin, D., Anselmi, P., **Aust, F.**, & Awtrey, E. C. (2018). Many analysts, one data set: Making transparent how variations in analytic choices affect results. *Advances in Methods and Practices in Psychological Science*, 1(3), 337–356. <https://doi.org/10.1177/2515245917747646>
- Stahl, C., & **Aust, F.** (2018). Evaluative conditioning as memory-based judgment. *Social Psychological Bulletin*, 13(3), 1–30. <https://doi.org/10.5964/spb.v13i3.28589>
- Heycke, T., **Aust, F.**, & Stahl, C. (2017). Subliminal influence on preferences? A test of evaluative conditioning for brief visual conditioned stimuli using auditory unconditioned stimuli. *Royal Society Open Science*, 4(9). <https://doi.org/10.1098/rsos.160935>
- Rouder, J. N., Haaf, J. M., & **Aust, F.** (2017). From theories to models to predictions: A bayesian model comparison approach. *Communication Monographs*, 1, 1–16. <https://doi.org/10.1080/03637751.2017.1394581>
- Aust, F.**, & Edwards, J. D. (2016). Incremental validity of Useful Field of View subtests for the prediction of instrumental activities of daily living. *Journal of clinical and experimental neuropsychology*, 38(5), 497–515. <https://doi.org/10.1080/13803395.2015.1125453>
- Aust†, F.**, Diedenhofen†, B., Ullrich, S., & Musch, J. (2013). Seriousness checks are useful to improve data validity in online research. *Behavior research methods*, 45(2), 527–535. <https://doi.org/10.3758/s13428-012-0265-2>
- Aust, F.**, Moehlenbrink, C., & Jipp, M. (2011a). Operationalization of learned carelessness an experimental approach. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 55. <https://doi.org/10.1177/1071181311551360>

## BOOKS AND BOOK CHAPTERS

- Wagenmakers, E.-J., & **Aust, F.** (n.d.). The strength of evidence. In E.-J. Wagenmakers & D. Matzke (Eds.), *Bayesian inference from the ground up* (Vol. 1). JASP Publishing.
- Aust, F.** (2023b, January). *Exemplars as a least-committed alternative to dual-representations in learning and memory* [Doctoral dissertation, University of Cologne]. <https://kups.ub.uni-koeln.de/64657/>
- Caldwell, A. R., Lakens, D., Parlett-Pelleriti, C. M., Prochilo, G., & **Aust, F.** (2022). *Power analysis with Superpower*. Retrieved November 12, 2022, from <https://aaroncaldwell.us/SuperpowerBook/>

## PUBLIC OUTREACH

- Hönig, L. (Host), Krautter, K. (Host), **Aust, F.**, & Barth, M. (2023, June). Programmieren in RStudio (No. 4.06) [Audio podcast episode]. In *Positiv korreliert*. <https://podcasters.spotify.com/pod/show/luise-hnig/episodes/4-06-Programmieren-in-RStudio-e25q3de>

**Aust, F.** (2017a, August 28). *A conceptual introduction to mathematical modeling of cognition*. JEPS Bulletin. Retrieved November 9, 2022, from <https://blog.efpsa.org/2017/08/28/a-conceptual-introduction-to-mathematical-modelling-of-cognition/>

## R packages (selection)

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<b>afex</b> Analysis of Factorial Experiments Singmann, H., Bolker, B., Westfall, J., <b>Aust, F.</b> , & Ben-Shachar, M. S.	112 GitHub stars <sup>1</sup> 10,745 dl/mo
<b>citr</b> RStudio Addin to Insert Markdown Citations <b>Aust, F.</b>	401 GitHub stars <sup>1</sup> Not on CRAN
<b>jab</b> Automagically compute Jeffrey's Approximate Bayes factors <b>Aust, F.</b>	2 GitHub stars <sup>1</sup> Not on CRAN
<b>multibridge</b> Evaluating Multinomial Order Restrictions with Bridge Sampling Sarafoglou, A., <b>Aust, F.</b> , Haaf, J. M., Goosen, J., Gronau, Q. F., & Marsman, M.	0 GitHub stars <sup>1</sup> 294 dl/mo
<b>papaja</b> Prepare American Psychological Association Journal Articles with R Markdown <b>Aust, F.</b> , & Barth, M.	608 GitHub stars <sup>1</sup> 1,329 dl/mo
<b>prereg</b> R Markdown Templates to Preregister Scientific Studies <b>Aust, F.</b> , & Spitzer, L.	48 GitHub stars <sup>1</sup> 420 dl/mo
<b>retractcheck</b> Retraction Scanner Hartgerink, C., & <b>Aust, F.</b>	24 GitHub stars <sup>1</sup> 243 dl/mo

Contributed code to the following packages: [MPTmultiverse](#), [Superpower](#), [bookdown](#), [broom](#), [ggeffects](#), [indiedown](#), [rmarkdown](#)

## Conference contributions

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### ORGANIZED SYMPOSIA

Haaf, J., & **Aust, F.** (2022b, April). *Bayesian advances in cognitive modeling* [Symposium accepted at the 63rd Tagung experimentell arbeitender Psychologen, Cologne, Germany].

### TALKS AND POSTERS (SELECTION)

\* indicates supervised Bachelor student

**Aust, F.**, Haaf, J., de Haan, E., & Wagenmakers, E.-J. (2022, July). *Informative and efficient bayesian hypothesis tests for lesion studies* [Talk presented at the 56th Annual Meeting of the Society for Mathematical Psychology, Amsterdam, Netherlands. *Cancelled due to illness*].

**Aust, F.**, & Musfeld, P. (2022, April). *Performance of bayes factor approximations for comparing nested hierarchical sdt models* [Talk presented at the 63rd Tagung experimentell arbeitender Psychologen, Cologne, Germany].

Haaf, J., & **Aust, F.** (2022a, April). *Bayesian advances to study individual differences with cognitive models* [Talk presented at the 63rd Tagung experimentell arbeitender Psychologen, Cologne, Germany].

Sarafoglou, A., Haaf, J., **Aust, F.**, & Kuhlmann, B. (2022, April). *Bayes factors for disordinal interaction hypotheses in mpt models* [Talk presented at the 63rd Tagung experimentell arbeitender Psychologen, Cologne, Germany].

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<sup>1</sup>GitHub stars are used to bookmark projects and show appreciation to the maintainer for their work. GitHub stars and monthly downloads (dl/mo) are recommended criteria to judge the impact of software contributions (Gärtner et al., 2022).



- Haaf, J., Evans, N., & **Aust, F.** (2020, April). *A strong test of empirical validity for cognitive process models* [Talk at the 62nd Tagung experimentell arbeitender Psychologen, Jena, Germany. *Cancelled due COVID-19 pandemic*].
- Aust, F.** (2019b, July). *Extending papaja too prepare (even better) APA journal articles with r markdown* [Hackathon at the Society for Improving Psychological Science annual meeting, Rotterdam, the Netherlands].
- Henninger, F., Horsten, L., & **Aust, F.** (2019, July). *Building an open science knowledge base* [Hackathon at the Society for Improving Psychological Science annual meeting, Rotterdam, the Netherlands].
- Aust, F.**, Heycke, T., & Stahl, C. (2018, September). *Does it replicate? Using Bayesian model comparisons to evaluate replication attempts of specific 2x2-interaction patterns* [Talk presented at DGPs Congress, Frankfurt, Germany]. <https://frederikaust.com/ml-otm-dgps-slides/>
- Aust, F.**, Haaf, J., & Stahl, C. (2017, March). *Reversed dissociation between CS evaluation and US expectancy through explicit reference to learning contexts* [Talk presented at the Tagung Experimentell Arbeitender Psychologen, Dresden, Germany].
- Musfeld\*, P., **Aust, F.**, & Stahl, C. (2017, March). *False recognition in short-term memory may be due to encoding errors* [Poster presented at the Tagung Experimentell Arbeitender Psychologen, Dresden, Germany].
- Aust, F.**, & Stahl, C. (2016b, November). *A global-matching account of verbatim and gist processes in conjoint recognition* [Poster presented at the Computational Approaches to Cognition Symposium 2016, Boston, MA.].
- Aust, F.**, & Stahl, C. (2016c, July). *Effects of explicit reference to learning contexts on the extinction of evaluative conditioning and expectancies* [Talk presented at 5th European Meeting on the Psychology of Attitudes, Cologne, Germany].

## Teaching and mentoring

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### SUPERVISION

<b>Research internships</b>	4 students
Martin Papenberg (B.Sc, 2012), Philipp Musfeld (B.Sc, 2015), Axel Gehlen (B.Sc, 2018), Sebastiaan de Vries (M.Sc, 2021)	
<b>B.Sc. theses psychology</b>	5 students
Philipp Musfeld (2017), Amelie Jörgensen (2023), Eeva Hökkä (2023), Sacha van de Hoef (2023), Sam Semegne (2023)	
<b>M.Sc. theses psychology</b>	1 student
František Bartoš (2021)	

### UNIVERSITY COURSES

<b>Multivariate Statistics Seminar</b> , coordinator and lecturer	2023–2024
M.Sc. Psychology, University of Cologne, 116 students	2x2 hrs/wk
<b>Bayesian Statistics</b> , practical lecturer	2022
B.Sc. Psychology, University of Amsterdam, 8 students, with Julia M. Haaf and Michael D. Nunez	2x2 hrs/wk
• Average teaching evaluation: 7.9 ( <a href="#">Dutch grading system</a> )	
<b>Computational reproducibility: A minimum necessary condition for credibility</b>	17/11/2020
Guest lecture in <i>Good Research Practices</i> course at University of Amsterdam	2 hrs

<b>Mathematical Modeling in Psychology</b> , senior lecturer B.Sc. Psychology, University of Amsterdam, 14 students, with Julia M. Haaf	6/2020 4 hrs/wk
• Average teaching evaluation: 6.9 ( <a href="#">Dutch grading system</a> )	
<b>Statistics 2 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 69 students	2020 2×2 hrs/wk
<b>Statistics 2 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 62 students	2019 2×2 hrs/wk
<b>Multivariate Statistics Practical</b> , coordinator and lecturer M.Sc. Psychology, University of Cologne, 36 students	2017–2018 2×2 hrs/wk
<b>Statistics 2 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 67 students	2017 2×2 hrs/wk
<b>Multivariate Statistics Practical</b> , coordinator and lecturer M.Sc. Psychology, University of Cologne, 47 students	2016–2017 2×2 hrs/wk
<b>Statistics 1 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 53 students	2015–2016 2×2 hrs/wk
<b>Statistics 1 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 95 students	2014–2015 3×2 hrs/wk
<b>Practical Experimenting</b> , lecturer B.Sc. Psychology, University of Cologne, 10 students	2014 2 hrs/wk
<b>Statistics 2 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 85 students	2014 3×2 hrs/wk
<b>Statistics 1 Practical</b> , coordinator and lecturer B.Sc. Psychology, University of Cologne, 32 students	2013–2014 2 hrs/wk

## INTERNATIONAL WORKSHOPS

<b>Friends don't let friends copy-paste: How to create computationally reproducible APA-style manuscripts with the R package papaja</b> Dresden University of Technology, Dresden, Germany, <a href="#">Open material</a> .	10/04/2022 1 day
<b>Friends don't let friends copy-paste: How to create computationally reproducible APA-style manuscripts with the R package papaja</b> As part of the lecture series <i>Practices and Tools of Open Science</i> , Leibniz Institute of Psychology, Trier, Germany, <a href="#">Open material</a> .	16/11/2022 3 hrs
<b>Friends don't let friends copy-paste: How to create computationally reproducible APA-style manuscripts with the R package papaja</b> University of Hagen, Hagen, Germany, <a href="#">Open material</a> .	4/11/2022 1 day
<b>Friends don't let friends copy-paste: How to create computationally reproducible APA-style manuscripts with the R package papaja</b> Linköping University, Linköping, Sweden, <a href="#">Open material</a> .	24–26/10/2022 3 days
<b>Reproducible research practices for psychologists</b> KU Leuven, Leuven, Belgium, with Johannes Breuer, <a href="#">Open material</a> .	27–28/4/2022 2 days



<b>An alternative to copy-paste reporting: Create computationally reproducible, submission-ready, APA-style manuscripts in R with papaja</b> Conference of Experimental Psychologists (TeaP) 2022, Cologne, Germany, with Marius Barth, <a href="#">Open material</a> .	19/3/2022 3 hrs
<b>A fully reproducible publication workflow: Analysis, report, and revision</b> Linköping University, Linköping, Sweden	9–10/11/2021 3 days
<b>An alternative to copy-paste reporting: Create computationally reproducible, submission-ready, APA-style manuscripts in R with papaja</b> Laboratoire Inter-universitaire de Psychologie, France, <a href="#">Open material</a> .	5/6/2020 1 day
<b>An alternative to copy-paste reporting: Create computationally reproducible, submission-ready, APA-style manuscripts in R with papaja</b> Max Planck School of Cognition Academy, Berlin, Germany, <a href="#">Open material</a> .	17/1/2020 1 day
<b>An alternative to copy-paste reporting: Create computationally reproducible, submission-ready, APA-style manuscripts in R with papaja</b> European Conference on Visual Perception, Leuven, Belgium, with Marius Barth, <a href="#">Open material</a> .	25/8/2019 1 day
<b>Developing your personal workflow for transparent and reproducible research</b> Society for Improving Psychological Science 2019 conference, Rotterdam, Netherlands, with Johannes Breuer, <a href="#">Open material</a> .	9/7/2019 5 hrs
<b>papaja: Prepare APA journal articles reproducibly with R Markdown</b> Behavioral Science Institute, Radboud University, Nijmegen, The Netherlands, <a href="#">Open material</a> .	19–20/11/2018 2 days
<b>A practical primer on transparent research workflows</b> EASP Solid Science Training Workshop, Bordeaux, France, <a href="#">Open material</a> .	7/9/2018 5 hrs
<b>A practical primer on transparent research workflows</b> ESCON Transfer of Knowledge Conference, Cologne, Germany, with Johannes Breuer, <a href="#">Open material</a> .	4/9/2018 5 hrs
<b>papaja: Prepare APA journal articles reproducibly with R Markdown</b> Linköping University, Linköping, Sweden, <a href="#">Open material</a> .	13–14/8/2018 2 days
<b>papaja: Prepare APA journal articles reproducibly with R Markdown</b> Peer Mentoring Project Methods and Statistics, University of Zürich, Zürich, Switzerland, <a href="#">Open material</a> .	30/11–1/12/2017 2 days
<b>Data Visualization in R</b> Society for Personality and Social Psychology's Annual Convention 2017, San Antonio, TX, with Maike Luhmann	20/1/2017 3 hrs