PAUL-CHRISTIAN BÜRKNER

GENERAL INFORMATION

Date of Birth 16 June 1991

Place of Birth Marburg, Germany

Vogelpothsweg 87, 44227 Dortmund, Germany Work Address

paul.buerkner@gmail.com Email

https://paul-buerkner.github.io/ Website

KEY SCIENTIFIC METRICS

103 (peer-reviewed only) **Publications**

Funding 1,303,000 € (third-party only)

17,457 (source: GoogleScholar) Citations

h-index 33 (source: GoogleScholar)

WORK EXPERIENCE

since 2023 Full Professor for Computational Statistics

TU Dortmund Full Professor for Computational Statistics, Department of Statistics, TU University

Dortmund University, Germany.

2020-2023 Independent Junior Research Group Leader

University of Independent Junior Research Group Leader for Bayesian Statistics at the

Stuttgart Cluster of Excellence SimTech, University of Stuttgart, Germany.

> 2019-2020 Postdoctoral Researcher

Aalto University Postdoctoral researcher at the chair of Computational Probabilistic Modeling

(Prof. Dr. Vehtari), Aalto University, Department of Computer Science, Finland.

2014-2019 Research Associate

University of Research associate at the chair of Statistics and Methods (Prof. Dr. Holling),

Münster University of Münster, Department of Psychology, Germany.

HIGHER EDUCATION

2014-2017 University of Münster

PhD in Psychology Grade: Summa Cum Laude · Institute of Psychology

Title: Optimal Design and Bayesian Data Analysis. Received multiple awards (see the Awards section).

2014-2017 University of Hagen

Master of Grade: 1.3 · Institute of Mathematics

Mathematics Thesis: On the Statistics of Curie-Weiss-Distributed Random Variables.

> 2013-2014 University of Münster

Master of Grade: 1.1 · Institute of Psychology

Psychology Thesis: Adaptive Designs for Logistic Models with False Answers.

> 2011-2014 University of Hagen

Bachelor of Grade: 1.7 · Institute of Mathematics Mathematics Thesis: A Hull Operator for Complex Matroids.

> 2010-2013 University of Münster

Bachelor of Grade: 1.2 · Institute of Psychology

Psychology Thesis: Testing for Publication Bias in Diagnostic Meta-Analysis: A Simulation

Study.

RESEARCH FUNDING

DFG	Bürkner P. C. & Radev S. T. (2023). BayesFlow: Simulation Intelligence with Deep Learning. <i>Funder: German Research Foundation (DFG)</i> . 353,000 € .
DFG	Bürkner P. C. (2022). Intuitive Joint Priors for Bayesian Multilevel Models. <i>Funder: German Research Foundation (DFG)</i> . 238,000 €.
DFG	Bürkner P. C. (2022). Bayesian Distributional Latent Variable Models. <i>Funder: German Research Foundation (DFG)</i> . 238,000 € .
DFG	Bürkner P. C. & Bulling A. (2022). Amortized Bayesian Inference for Multilevel Models. <i>Funder: German Research Foundation (DFG)</i> . 232,000 €.
EXC SimTech	Guthke A. & Bürkner P. C. (2022). Data-Integrated Training of Surrogate Models for Uncertainty Quantification and Diagnostics of Complex Biological Systems. <i>Funder: Cluster of Excellence SimTech.</i> 285,000 €.
Cyber Valley	Bürkner P. C. (2021). Meta-Uncertainty in Bayesian Model Comparison. <i>Funder:</i> Cyber Valley Research Fund. 242,000 €.
EXC SimTech	Bürkner P. C. & Sedlmair M. (2021). Machine Learning for Bayesian Model Building. <i>Funder: Cluster of Excellence SimTech.</i> 285,000 €.
EXC SimTech	Bulling A. & Bürkner P. C. (2021). Bayesian Intent Prediction for Human-Machine Collaboration. <i>Funder: Cluster of Excellence SimTech.</i> 175,000 €.
ELLIS	Bulling A. Bürkner P. C., Kuchenbecker J. K., Pradel M., Schulte im Walde S., Staab S., Steinwart I., & Vu T. (2021). Stuttgart ELLIS Unit. Funders: ELLIS Society and University of Stuttgart.
	SELECTED AWARDS
GCPR	2023 · Best paper honorable mention award at the German Conference of Pattern Recognition (GCPR).
SIPS	2020 · Mission award of the Society for Improving Psychological Science (SIPS) for brms.
SIPS	2020 · Commendation award of the Society for Improving Psychological Science (SIPS) for brms.
University of Münster	2018 · Award for the best dissertation 2017-2018 in Psychology at the University of Münster.
German Society for Psychology	2017 · Gustav A. Lienert Award for the best methodological dissertation in Psychology awarded by the German Society for Psychology (DGPs).
University of	2017 · Award for the best lecture at the Institute of Psychology in Münster.
Münster German National Acad. Foundation	2014 · Scholarship of the German National Academic Foundation (Studienstiftung des deutschen Volkes).
OPEN-SOURCE SOFTWARE	
brms	Lead author \cdot An R package for Bayesian regression models using Stan. Received multiple awards (see the Awards section).
posterior	Lead author · An R package for working with posterior distributions.
thurstonian IRT	Lead author · An R Package for fitting Thurstonian IRT models.
BayesFlow	Author \cdot A Python library for simulation-based Bayesian inference.
posteriordb	Author · A Posterior Database for Bayesian Inference.
loo	Author · An R package for approximate leave-one-out cross-validation.
ggsimplex	Author · An R package for simplex visualizations with ggplot2.
bayesim	Author · An R package for simulations with Bayesian models.
bayehear	Author · An R package for metrics to evaluate Bayesian models.
bayesfam	Author · An R package for custom brms families.

bayesian Author · An R package to interface brms and tidymodels.

rstan Contributor · An R Interface to Stan.

bayesplot Contributor · An R package for visualizing Bayesian models.

projpred Contributor · An R package for projection predictive variable selection.

emmeans Contributor · An R package for estimating marginal means.

SELECTED PROFESSORSHIP CALLS

Full Professorship 2022 · Call for the Full Professorship (W3) in Computational Statistics,

Department of Statistics, TU Dortmund University, Germany. Accepted.

Full Professorship 2022 · Call for the Full Professorship (W3) in Data Analytics and

 $Computational \ Statistics, \ Department \ of \ Computer \ Science, \ University \ of$

Konstanz, Germany.

SELECTED SCIENTIFIC INVOLVEMENT

Chairman of the appointment committee for the associate professorship

in Causality at TU Dortmund University.

Organizer 2022 · Organizer of the 1st International SimTech Summer School, University

of Stuttgart. Co-Organizers: Benjamin Unger and Kristyna Pluhackova.

Reviewer since 2022 · Reviewer for major funding agencies. Selection: German Research

Foundation (DFG).

Faculty Member of the International Max Planck Research School

for Intelligent Systems (IMPRS-IS; https://imprs.is.mpg.de/).

Member since 2021 · Member of Cyber-Valley (https://cyber-valley.de/en).

Member since 2021 · Member of the ELLIS Society (https://ellis.eu/).

Founding Member since 2021 · Founding member of the Stuttgart ELLIS Unit

(https://ellis.eu/units/stuttgart).

Member since 2018 · Member of the Stan Development Team (https://mc-stan.org/).

Consultant since 2018 · Academic consultant in industry. Selection: Bayer (2018), Novartis

(since 2021), Axem (since 2022).

Editor 2018 – 2020 · Associate editor of Biostatistics.

Reviewer since 2014 · Reviewer for international journals and conferences. Selection:

Bayesian Analysis, Behavior Research Methods, Biometrical Journal, Journal of Machine Learning Research, Journal of Probability and Statistics, Journal of Statistical Software, Journal of the Royal Statistical Society, Nature, Nature Ecology & Evolution, Nature Human Behaviour, Philosophical Transactions, Psychological Methods, Psychometrika, Psychonomic Bulletin and Review,

Statistics in Medicine.

SELECTED TALKS

Bayes on the Beach 2024 · Gold Coast · Keynote

Conference Title: Does Bayes have to be slow? A glimpse into amortized Bayesian inference.

Oxford University 2023 · Oxford · Keynote

 ${\bf Title:}\ Probabilistic\ Modeling\ for\ Ecology.$

Princeton 2023 · online · Invited Talk

University Title: An Introduction to Bayesian Statistics.

DagStat 2022 · Hamburg · Contributed Talk

Conference Title: The sparse polynomial chaos expansion: a fully Bayesian approach with joint

priors on the coefficients and global selection of terms.

Psychoco 2021 · online · Keynote

Conference Title: Bayesian Item Response Models.

Oslo UseR Group 2021 · online · Invited Talk

Title: Bayesian multilevel modeling with brms.

Oxford University 2020 · online · Invited Talk

Title: Bayesian regression modeling.

Turku University 2020 · online · Invited Talk

Title: Bayesian multilevel modeling with brms.

TU Dortmund

2020 · online · Invited Talk

University

Title: Bayesian multilevel modeling with brms.

Bayer

2020 · online · Invited Talk

Title: Bayesian multilevel modeling with brms.

Stat. Methods for

2019 · Potsdam · Keynote

Linguistics

Title: A Principled Bayesian Workflow for Data Analysis.

University of

2019 · Essen · Invited Talk

Duisburg-Essen

Title: A Principled Bayesian Workflow for Data Analysis.

DGPs Conference

2019 · Kiel · Contributed Talk

Title: Improving Convergence Diagnostics for MCMC Sampling Algorithms.

Stan Conference

2019 · Cambridge · Contributed Talk

Title: Leave-Future-Out Cross-Validation for Bayesian Time-Series Models.

Multilevel

2019 · Utrecht · Keynote

Conference

Title: Bayesian Multilevel Modeling with brms and Stan.

DagStat

2019 · Munich · Contributed Talk

Title: Leave-Future-Out Cross-Validation for Bayesian Time-Series Models.

Stan Conference

2018 · Helsinki · Contributed Talk

Title: Custom Response Distributions in brms.

EAM Conference

2018 · Jena · Contributed Talk

Title: Handling Ordinal Predictors in Regression Models via Monotonic Effects.

Bayes@Lund

2018 · Lund · Keynote

DGPs Conference

2017 · Tübingen · Keynote

Title: Why Not to be Afraid of Priors.

Title: Optimal Design and Bayesian Data Analysis.

eRum Conference

2016 · Poznan · Contributed Talk

Title: brms: An R Package for Bayesian Multilevel Models using Stan.

Int. Workshop on

2015 · Vienna · Contributed Talk

Simulation

Title: Adaptive Designs for Logistic Models with False Answers.

DGPs Conference

2015 · Jena · Contributed Talk

Title: Optimal Design of Non-Parametric Two-Sample Tests.

SELECTED WORKSHOPS

Oxford University

2023 · Department of Biology · 1 day

Title: Bayesian modeling for biologists using brms.

University of Tübingen

2023 · Center of Methods · 2 days

TU Dortmund

Title: Bayesian modeling with the brms package. 2022 · Department of Statistics · 2 days

University

Title: Bayesian Statistics.

University of Salzburg

2022 · Department of Psychology · 2 days Title: Introduction to Bayesian Data Analysis.

Oxford University

2021 · Department of Zoology · 4 days

Title: Bayesian Regression Modelling for Biologists.

Research Cluster

2020 · Mannheim · 2 days

SMiP

Title: Introduction to Stan: A Probabilistic Programming Language for Bayesian

Inference.

University of

2020 · Department of Economics and Business Economics · 1 day

Aarhus

Title: Bayesian Model and Variable Selection.

MPI for Human 2019 · Göttingen · 1 day Development Title: Bayesian Multilevel Modeling.

MPI for Emp. 2019 · Frankfurt · 2 days

Aesthetics Title: Bayesian Multilevel Modeling.

Multilevel 2019 · Utrecht · 1 day

Conference Title: Introduction to Bayesian Data Analysis.

DagStat 2019 · Munich · 1 day

Conference Title: Bayesian Data Analysis using Stan.

University of 2018 · Department of Psychology · 2 days

Lausanne Title: Introduction to Meta-Analysis.

University of 2018 · Department of Psychology · 4 days

Magdeburg Title: Introducing Basic and Advanced Bayesian Modelling.

University of 2018 · 4 days

Aarhus Title: Advanced Bayesian Statistical Modeling.

ETH Zurich 2018 · 1 day

Title: Classical and Bayesian Multi-Level Models in R.

University of 2017 · Department of Psychology · 2 days

Hamburg Title: Fitting Multi-Level Models in R.

DPPD Conference 2017 · Munich · 1 day

Title: Bayesian Multi-Level Models in R with brms.

University of Bern 2017 · Department of Psychology · 3 days

Title: Bayesian Multi-Level Models in R with brms.

University of 2017 · Department of Psychology · 3 days

Münster Title: Introduction to Bayesian Inference.

University Paris 2017 · 1 day

Decardes Title: Introduction to Meta-Analysis.

DGPs Conference 2016 · Leipzig · 1 day

Title: Bayesian Multilevel Models in R using the Package brms.

SELECTED TEACHING ACTIVITIES

Statistics and Data 2023 · TU Dortmund University

Science Lecture: Applied Bayesian Data Analysis.

Statistics and Data 2023 · TU Dortmund University

Science Lecture: Computational Statistics.

Statistics and Data 2023 · TU Dortmund University

Science Seminar: Multilevel Models.

Simulation Science 2022 · University of Stuttgart

Lecture: Bayesian Statistics and Probabilisitic Machine Learning.

Simulation Science 2021 · University of Stuttgart

Lecture: ML Sessions: Bayesian Statistics.

Simulation Science 2021-2022 · University of Stuttgart · 2 times

Seminar: Advanced Topics in Simulation Science.

Psychology 2018 · University of Münster · 2 times

Seminar: *Structural Equation Modeling and Bayesian Statistics*. Average Evaluation: 10.9 points (15 point *abitur* scale).

Psychology 2014-2019 · University of Münster · 5 times

Lecture: *Descriptive Statistics and Probability Theory*. Average Evaluation: 12.6 points (15 point *abitur* scale). Award for the best lecture in the winter semester 2016/2017.

Psychology 2015-2018 · University of Münster · 4 times

Lecture: Inferential Statistics.

Average Evaluation: 12.1 points (15 point abitur scale).

CURRENT PHD STUDENTS

TU Dortmund since 2024 · Lars Kühmichel · Statistics

University Topic: BayesFlow: Simulation Intelligence with Deep Learning.

Co-Advisor: Prof. Stefan Radev

TU Dortmund since 2023 · Jacob Grytzka · Statistics

University Topic: Regularization in Generalized Linear and Additive Multilevel Models.

Co-Advisor: Prof. Andreas Groll

TU Dortmund since 2022 · Florence Bockting · Statistics

University Topic: Simulation-Based Prior Distributions for Bayesian models.

TU Dortmund since 2022 · Luna Fazio · Statistics

University Topic: Bayesian Distributional Latent Variable Models.

University of since 2022 · Soham Mukherjee

Tübingen Topic: Probabilistic Models for scRNA Sequencing Data.

Co-Advisor: Prof. Manfred Claassen

University of since 2022 · Philipp Reiser · Computer Science

Stuttgart Topic: Data-Integrated Training of Surrogate Models for Uncertainty Quantification

and Diagnostics of Complex Biological Systems Models.

Co-Advisor: Dr. Anneli Guthke

University of since 2021 · Maximilian Scholz · Computer Science Stuttgart Topic: Machine Learning for Bayesian Model Builing.

University of since 2021 · Javier Aguilar · Computer Science

Stuttgart Topic: Intuitve Joint Priors for Bayesian Multilevel Models.

University of since 2021 · Marvin Schmitt · Computer Science Stuttgart Topic: Meta-Uncertainty in Bayesian Model Comparison.

Aalto University since 2021 · Noa Kallioinen · Computer Science

Topic: Sensitivity Diagnostics in a Bayesian Workflow.

Primary Advisor: Prof. Aki Vehtari

Aalto University since 2020 · Teemu Säilynoja · Computer Science

Topic: Convergence and Goodness-of-Fit Diagnostics in a Bayesian Workflow.

Primary Advisor: Prof. Aki Vehtari

GRADUATED PHD STUDENTS

Aalto University 2019 – 2023 · Alejandro Catalania · Computer Science

Topic: Robust Bayesian Methods for Model and Variable Selection.

Primary Advisor: Prof. Aki Vehtari

University of 2018 – 2021 · Niklas Schulte · Psychology

Münster Topic: Statistical Properties of Forced-Choice Questionnaires in Applicant Personality

Measurements.

Primary Advisor: Prof. Heinz Holling

CURRENT POSTDOCTORAL RESEARCHERS

TU Dortmund since 2024 · Šimon Kucharský

University Topic: Applications of Amortized Bayesian Inference.

TU Dortmund since 2023 · Daniel Habermann

University Topic: Amortized Bayesian Inference for Multilevel Models.

University of since 2022 · Lei Shi

Stuttgart Topic: Bayesian Intent Prediction for Human-Machine Collaboration.

Co-Advisor: Prof. Andreas Bulling

FORMER POSTDOCTORAL RESEARCHERS

University of 2021 – 2023 · Stefan Radev
Heidelberg Topic: Amortized Bayesian Inference.

Became an assistant professor at Rensselaer Polytechnic Institute, Troy, USA.

ALL PUBLICATIONS

In Review

- 124) Bockting F., Radev, S. T., & **Bürkner P. C.** (in review). Simulation-Based Prior Knowledge Elicitation for Parametric Bayesian Models. *ArXiv preprint*.
- 123) Schmitt M., Radev S. T., & **Bürkner P. C.** (in review). Fuse It or Lose It: Deep Fusion for Multimodal Simulation-Based Inference. *ArXiv preprint*.
- 122) Schmitt M., Pratz V., Köthe U., **Bürkner P. C.**, & Radev S. T. (in review). Consistency Models for Scalable and Fast Simulation-Based Inference. *ArXiv* preprint.
- 121) Schmitt M., Habermann D., **Bürkner P. C.**, Köthe U., & Radev S. T. (in review). Leveraging Self-Consistency for Data-Efficient Amortized Bayesian Inference. *ArXiv preprint*.
- 120) Aguilar J. E. & **Bürkner P. C.** (in review). Generalized Decomposition Priors on R2. *ArXiv preprint*.
- 119) Reiser P., Aguilar J. E., Guthke A., & **Bürkner P. C.** (in review). Uncertainty Quantification and Propagation in Surrogate-based Bayesian Inference. *ArXiv* preprint.
- 118) Scholz M., & **Bürkner P. C.** (in review). Prediction can be safely used as a proxy for explanation in causally consistent Bayesian generalized linear models. *ArXiv preprint*.
- 117) Scholz M. & **Bürkner P. C.** (in review). Posterior accuracy and calibration under misspecification in Bayesian generalized linear models. *ArXiv preprint*.
- 116) Catalina A., **Bürkner P. C.**, & Vehtari A. (in review). Latent space projection predictive inference. *ArXiv preprint*.
- 115) Elsemüller L., Olischläger H., Schmitt M., **Bürkner P. C.**, Köthe U., & Radev S.T. (in review). Sensitivity-Aware Amortized Bayesian Inference. *ArXiv* preprint.
- 114) Lingel, H., **Bürkner P. C.**, Melchers, K. G., & Schulte, N. (in review). Measuring Personality When Stakes Are High: Are Graded Paired Comparisons a More Reliable Alternative to Traditional Forced-Choice Methods? *PsyArXiv preprint*.
- 113) Bagaïni, A., Liu, Y., Kapoor, M., Son, G., **Bürkner P. C.**, Tisdall, L., & Mata, R. (in review). Comparing the Temporal Stability and Convergent Validity of Risk Preference Measures: A Meta-Analytic Approach. *PsyArXiv preprint*.
- 112) Zetsche, U., Neumann, P., **Bürkner P. C.**, Renneberg, B., Koster, E. H. W., & Hoorelbeke, K. (in review). Computerized Cognitive Training to Reduce Rumination in Major Depression: A Randomized Controlled Trial. *PsyArXiv* preprint.
- 111) Bolzenkötter, T., **Bürkner P. C.**, Zetsche, U., & Schulze, L. (in review). Assessing the short-term effects of detached mindfulness on repetitive negative thinking and affect: A randomized controlled trial in daily life. *PsyArXiv* preprint.
- 110) Kallioinen N., Paananen T., **Bürkner P. C.**, & Vehtari A. (2024). Detecting and diagnosing prior and likelihood sensitivity with power-scaling. *Statistics and Computing*. doi:10.1007/s11222-023-10366-5
- 109) Elsemüller L., Schnuerch M., **Bürkner P. C.**, & Radev S. T. (2024). A Deep Learning Method for Comparing Bayesian Hierarchical Models. *Psychological Methods*.
- 108) Huber F., **Bürkner P. C.**, Göddeke D., & Schulte M. (2024). Knowledge-based modeling of simulation behavior for Bayesian optimization. *Computational Mechanics*. doi:10.1007/s00466-023-02427-3
- 107) Kołczyńska M., **Bürkner P. C.**, Kennedy L., & Vehtari A. (2024). Trust in state institutions in Europe, 1989-2019. *Survey Research Methods*.
- 106) Raulo A., **Bürkner P. C.**, Dale J., English H., Finerty G., Lamberth C., Firth J. A., Coulson T., & Knowles S. (2024). Social and environmental transmission spread different sets of gut microbes in wild mice. *Nature Ecology & Evolution*.

- 105) Schulte, N., Kaup, L., **Bürkner, P. C.**, & Holling, H. (2024). The Fakeability of Personality Measurement with Graded Paired Comparisons. *Journal of Business and Psychology*. doi:10.1007/s10869-024-09931-0
- 104) Schmitt M., Ewendt F., Kluttig A., Mikolajczyk R., Kraus B., Waetjen W., **Bürkner P. C.**, Stangl G., & Föller M. (2024). Smoking is associated with increased eryptosis, suicidal erythrocyte death, in a large population-based cohort. *Scientific Reports*. doi:10.1038/s41598-024-53258-y
- 103) **Bürkner P. C.**, Scholz M., & Radev S. T. (2023). Some models are useful, but how do we know which ones? Towards a unified Bayesian model taxonomy. *Statistics Surveys*. doi:10.1214/23-SS145

- 102) **Bürkner P. C.**, Kröker I., Oladyshkin S., & Nowak W. (2023). A fully Bayesian sparse polynomial chaos expansion approach with joint priors on the coefficients and global selection of terms. *Journal of Computational Physics*. doi:10.1016/j.jcp.2023.112210
- 101) Aguilar J. E. & **Bürkner P. C.** (2023). Intuitive Joint Priors for Bayesian Linear Multilevel Models: The R2D2M2 prior. *Electronic Journal of Statistics*. doi:10.1214/23-EJS2136
- 100) Schmitt, M., Radev, S. T., & **Bürkner P. C.** (2023). Meta-Uncertainty in Bayesian Model Comparison. *Artificial Intelligence and Statistics (AISTATS) Conference Proceedings*.
- 99) Schmitt, M., **Bürkner P. C.**, Köthe U., & Radev S. T. (2023). Detecting Model Misspecification in Amortized Bayesian Inference with Neural Networks. *Proceedings of the German Conference on Pattern Recognition (GCPR)*.
- 98) Radev S. T., Schmitt M., Pratz V., Picchini U., Köthe U., & **Bürkner P. C.** (2023). JANA: Jointly Amortized Neural Approximation of Complex Bayesian Models. *Uncertainty in Artificial Intelligence (UAI) Conference Proceedings*.
- 97) Schumacher L, **Bürkner P. C.**, Voss A., Köthe U., & Radev S. T. (2023). Neural Superstatistics: A Bayesian Method for Estimating Dynamic Models of Cognition. *Scientific Reports*. doi:10.1038/s41598-023-40278-3
- 96) Modrák M., Moon A. H., Kim S., **Bürkner P. C.**, Huurre N., Faltejsková K., Gelman A., & Vehtari A. (2023). Simulation-Based Calibration Checking for Bayesian Computation: The Choice of Test Quantities Shapes Sensitivity. *Bayesian Analysis*. doi:10.1214/23-BA1404
- 95) Perini L., **Bürkner P. C.**, & Klami A. (2023). Estimating the Contamination Factor's Distribution in Unsupervised Anomaly Detection. *Proceedings of the International Conference on Machine Learning (ICML)*.
- 94) Riutort-Mayol G., **Bürkner P. C.**, Andersen M. R., Solin A., & Vehtari A. (2023). Practical Hilbert space approximate Bayesian Gaussian processes for probabilistic programming. *Statistics and Computing*. doi:10.1007/s11222-022-10167-2
- 93) Mikkola P., Martin O., Chandramouli S., ..., **Bürkner P. C.**, & Klami A. (2023). Prior knowledge elicitation: The past, present, and future. *Bayesian Analysis*. doi:10.1214/23-BA1381
- 92) Radev S. T., Schmitt M., Schumacher L., Elsemüller L., Pratz V., Schälte Y., Köthe U., & **Bürkner P. C.** (2023). BayesFlow: Amortized Bayesian Workflows With Neural Networks. *Journal of Open Source Software*. doi:10.21105/joss.05702
- 91) Rodriguez, J. E., Williams, D. R., & **Bürkner P. C.** (2023). Heterogeneous Heterogeneity by Default: Testing Categorical Moderators in Random-effects Meta-Analysis. *British Journal of Mathematical and Statistical Psychology*. doi:10.1111/bmsp.12299
- 90) Kołczyńska M. & **Bürkner P. C.** (2023). Modeling public opinion over time: A simulation study of latent trend models. *Journal of Survey Statistics and Methodology*. doi:10.1093/jssam/smad024
- 89) Shi L., **Bürkner P. C.**, & Bulling A. (2023). Inferring Human Intentions from Predicted Action Probabilities. *ArXiv preprint*. doi:10.48550/arXiv.2308.12194

- 88) Arslan, R. C., Blake, K., Botzet, L., **Bürkner, P. C.**, DeBruine, L. M., Fiers, T., ..., & Stern, J. (2023). Not within spitting distance: salivary immunoassays of estradiol have subpar validity for cycle phase. *Psychoneuroendocrinology*. doi:10.1016/j.psyneuen.2022.105994
- 87) Zetsche, U., **Bürkner P. C.**, Bohländer, J., Renneberg, B., Röpke, S., & Schulze, L. (2023). Daily affect regulation in borderline personality disorder and major depression. *Clinical Psychological Science*. doi:10.1177/21677026231160709
- 86) Danböck, S. K., Franke, L. K., Miedl, S. F., Liedlgruber, M., **Bürkner P. C.**, & Wilhelm, F. H. (2023). Aversive-Audiovisual and Painful-Electrical Stimulation Cause Peritraumatic Dissociation: A Functional Magnetic Resonance Imaging Study. *Behaviour Research and Therapy*. doi:10.1016/j.brat.2023.104289
- 85) Zhang, J., **Bürkner, P. C.**,, Kiesel A., & Dignath D. (2023). How Emotional Stimuli Modulate Cognitive Control: A Meta-Analytic Review of Studies With Conflict Tasks. *Psychological Bulletin*. doi:10.1037/bul0000389
- 84) Ewendt, F., Schmitt, M., Kluttig, A., Kühn, J., ..., **Bürkner P. C.**, Föller, M., & Stangl, G. I. (2023). Association between vitamin D status and eryptosis results from the German National Cohort Study. *Annals of Hematology*. doi:10.1007/s00277-023-05239-w
- 83) **Bürkner P. C.** (2022). On the information obtainable from comparative judgments. *Psychometrika*. doi:10.1007/s11336-022-09843-z

- 82) Säilynoja, T., **Bürkner P. C.**, & Vehtari A. (2022). Graphical Test for Discrete Uniformity and its Applications in Goodness of Fit Evaluation and Multiple Sample Comparison. *Statistics and Computing*. doi:10.1007/s11222-022-10090-6
- 81) Catalina A., **Bürkner P. C.**, & Vehtari A. (2022). Projection Predictive Inference for Generalized Linear and Additive Multilevel Models. *Artificial Intelligence and Statistics (AISTATS) Conference Proceedings*.
- 80) Pavone, F., Piironen, J., **Bürkner P. C.**, & Vehtari A. (2022). Using reference models in variable selection. *Computational Statistics*. doi:10.1007/s00180-022-01231-6
- 79) Schad D. J., Nicenboim B., **Bürkner P. C.**, Betancourt M., & Vasishth S. (2022). Workflow Techniques for the Robust Use of Bayes Factors. *Psychological Methods*. doi:10.1037/meto000472
- 78) Heck, D., Boehm, U., Böing-Messing, F., **Bürkner P. C.**, ..., Hoijtink, H. (2022). A Review of Applications of the Bayes Factor in Psychological Research. *Psychological Methods*. doi:10.1037/meto000454
- 77) Malén T., Karjalainen T., Isojärvi J., Vehtari A., **Bürkner P. C.**, ..., & Nummenmaa L. (2022). Age and sex dependent variability of type 2 dopamine receptors in the human brain: A large-scale PET cohort. *NeuroImage*. doi:10.1016/j.neuroimage.2022.119149
- 76) Franke, L. K., Miedl, S. F., Danböck, S. K., Lohse, J., Liedlgruber, M., **Bürkner P. C.**, Pletzer B., & Wilhelm, F. H. (2022). Estradiol during (analogue-)trauma: risk- or protective factor for intrusive re-experiencing? *Psychoneuroendocrinology*. doi:10.1016/j.psyneuen.2022.105819
- 75) Pluhackova K., Schittny V., **Bürkner P. C.**, Siligan C., & Horner A. (2022). Multiple Pore Lining Residues modulate Water Permeability of GlpF. *Protein Science*. doi:10.1002/pro.4431
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