

DR. MARTIN SCHNUERCH

DFG Research Training Group "Statistical Modeling in Psychology" (SMiP)
Research Methods & Psychological Assessment
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ACADEMIC POSITIONS

Interim Professor (<i>Vertretungsprofessor</i>) Quantitative Research Methods <i>Heidelberg University</i>	2022
Postdoctoral Researcher RTG "Statistical Modeling in Psychology" Research Methods & Psychological Assessment <i>University of Mannheim</i>	since 2020
Visiting Scholar Structure in Perception & Cognition <i>University of California, Irvine</i>	2020 / 2024
Visiting Scholar Cognition & Perception <i>University of Tübingen</i>	2019
Doctoral Researcher Cognition & Individual Differences <i>University of Mannheim</i>	2017 – 2020

EDUCATION

Ph.D. (Dr. rer. soc.) in Psychology Grade: summa cum laude <i>University of Mannheim</i>	2017 – 2020
Exchange Semester <i>University of Oslo, Norway</i>	2016
M.Sc. in Cognitive and Clinical Psychology Grade: 1.0 (with honors) <i>University of Mannheim</i>	2014 – 2017
B.Sc. in Psychology Grade: 1.1 (with honors) <i>University of Mannheim</i>	2011 – 2014

- Steinhilber, M., **Schnuerch, M.**, & Schubert, A.-L. (in press). Sequential analysis of variance: Increasing efficiency of hypothesis testing. *Psychological Methods*.
- Else Müller, L., **Schnuerch, M.**, Bürkner, P.-C., & Radev, S. T. (2024). A deep learning method for comparing Bayesian hierarchical models. *Psychological Methods*. Advance online publication. <https://doi.org/10.1037/met0000645>
- Schmidt, B., Böhmer, J., **Schnuerch, M.**, Michelmann, S., & Koch, T. (2024). Post-hypnotic suggestion improves confidence and speed of memory access with long-lasting effects. *Acta Psychologica*, *245*, 104240. <https://doi.org/10.1016/j.actpsy.2024.104240>
- Schnuerch, M.**, Heck, D. W., & Erdfelder, E. (2024). Waldian t tests: Sequential Bayesian t tests with controlled error probabilities. *Psychological Methods*, *24*, 99-116. <https://doi.org/10.1037/met0000492>
- Hoogeveen, S., Sarafoglou, A., Aczel, B., Aditya, Y., Alayan, A. J., Allen, P. J., Altay, S., Alzahawi, S., Amir, Y., Anthony, F.-V., Kwame Appiah, O., Atkinson, Q. D., Baimel, A., Balkaya-Ince, M., Balsamo, M., Banker, S., Bartoš, F., ... **Schnuerch, M.** ... Wagenmakers, E.-J. (2023). A many-analysts approach to the relation between religiosity and well-being. *Religion, Brain & Behavior*, *13*, 237-283. <https://doi.org/10.1080/2153599X.2022.2070255>
- Rouder, J. N., **Schnuerch, M.**, Haaf, J. M., & Morey, R. D. (2023). Principles of model specification in ANOVA designs. *Computational Brain & Behavior*, *6*, 50-63. <https://doi.org/10.1007/s42113-022-00132-7>
- Schnuerch, M.**, & Erdfelder, E. (2023). Building the study. In A. L. Nichols & J. E. Edlund (Eds.), *The Cambridge handbook of research methods and statistics for the social and behavioral sciences* (pp. 103-124). Cambridge University Press.
- van Doorn, J., Haaf, J. M., Stefan, A. M., Wagenmakers, E. -J., 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., ... **Schnuerch, M.** ... 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>
- Reiber, F., **Schnuerch, M.**, & Ulrich, R. (2022). Improving the efficiency of surveys with randomized response models: A sequential approach based on curtailed sampling. *Psychological Methods*, *27*, 198-211. <https://doi.org/10.1037/met0000353>
- Schnuerch, M.**, Haaf, J. M., Sarafoglou, A., & Rouder, J. N. (2022). Meaningful comparisons with ordinal-scale items. *Collabra: Psychology*, *8*, 38594. <https://doi.org/10.1525/collabra.38594>
- Erdfelder, E., & **Schnuerch, M.** (2021). On the efficiency of the independent segments procedure: A direct comparison with sequential probability ratio tests. *Psychological Methods*, *26*, 501-506. <https://doi.org/10.1037/met0000492>
- Nadarevic, L., **Schnuerch, M.**, & Stegemann, M. J. (2021). Judging fast and slow: The truth effect does not increase under time-pressure conditions. *Judgment and Decision Making*, *16*, 1234-1266. <https://doi.org/10.1017/S193029750000841X>
- Schnuerch, M.**, Nadarevic, L., & Rouder, J. N. (2021). The truth revisited: Bayesian analysis of individual differences in the truth effect. *Psychonomic Bulletin & Review*, *28*, 750-765. <https://doi.org/10.3758/s13423-020-01814-8>
- Pensel, M. C., **Schnuerch, M.**, Elger, C. E., & Surges, R. (2020). Predictors of focal to bilateral tonic-clonic seizures during long-term video-EEG-monitoring. *Epilepsia*, *61*, 489-497. <https://doi.org/10.1111/epi.16454>
- Schnuerch, M.**, & Erdfelder, E. (2020). Controlling decision errors with minimal costs: The sequential probability ratio t test. *Psychological Methods*, *25*, 206-226. <https://doi.org/10.1037/met0000234>
- Schnuerch, M.**, Erdfelder, E., & Heck, D. W. (2020). Sequential hypothesis tests for multinomial processing tree models. *Journal of Mathematical Psychology*, *95*, 102326. <https://doi.org/10.1016/j.jmp.2020.102326>
- Brandt, M., Zaiser, A.-K., & **Schnuerch, M.** (2019). Homogeneity of item material boosts the list length effect in recognition memory: A global matching perspective. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *45*, 834-850. <https://doi.org/10.1037/xlm0000594>
- Schnuerch, R., **Schnuerch, M.**, & Gibbons, H. (2015). Assessing and correcting for regression toward the mean in deviance-induced social conformity. *Frontiers in Psychology*, *6*, 669. <https://doi.org/10.3389/fpsyg.2015.00669>

UNDER REVIEW

- Erdfelder, E., Quevedo Pütter, J., & **Schnuerch, M.** (2023). On aggregation invariance of multinomial processing tree models. *Manuscript submitted for publication.*
- Schumacher, L., **Schnuerch, M.**, Voss, A., & Radev, S. T. (2023). Validation and comparison of non-stationary diffusion decision models. *Manuscript submitted for publication.*

GRANTS & SCHOLARSHIPS

- 3-Year Research Grant** **2024**
Project: *Experimental analysis of individual differences in a pervasive judgment bias*
Baden-Württemberg Foundation "Eliteprogramm" | € 145,000
- Ph.D. Scholarship (declined)** **2017**
Graduate School of Economic and Social Sciences, Mannheim | € 14,400
- Undergraduate and Graduate Scholarship** **2012 – 2017**
Studienstiftung des deutschen Volkes | € 15,900

INVITED TALKS

- Schnuerch, M.** (June 2022). *Two kinds of truthers: Qualitative individual differences in the truth effect.* Invited talk at the Experimental Psychology and Self-Regulation Lab (Jan Rummel), Heidelberg University, Germany.
- Schnuerch, M.** (May 2022). *On means and polarization: Bayesian comparison of response distributions with Likert items.* Invited talk at the Psychological Methods Lab (Tobias Koch), Friedrich Schiller University Jena, Germany.
- Schnuerch, M.** (January 2021). *Beyond true and false - Modeling individual differences in the truth effect.* Invited talk at the Diagnostics and Individual Differences Lab (Jochen Musch), Heinrich Heine University Düsseldorf, Germany.
- Schnuerch, M.** (June 2020). *Sequential hypothesis tests in MPT models.* Invited talk at the Social Psychology and Methodology Lab (Karl Christoph Klauer), University of Freiburg, Germany.
- Schnuerch, M.** (November 2019). *Gender differences in casual sex: Application of a sequential randomized response analysis.* Invited talk at the Perception and Cognition Lab (Rolf Ulrich), University of Tübingen, Germany.
- Schnuerch, M.** (December 2018). *A sequential randomized response technique.* Invited talk at the Perception and Cognition Lab (Rolf Ulrich), University of Tübingen, Germany.

EDITORIAL WORK & REVIEWING

- Consulting Editor** **since 2024**
Behavior Research Methods

Ad-hoc Reviews

British Journal of Mathematical and Statistical Psychology
Collabra: Psychology
Frontiers in Psychology
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory, and Cognition
Judgment and Decision Making
Memory & Cognition
Methodology
PCI Registered Reports
PLOS ONE
Psychological Methods
Psychological Research
Psychometrika
Psychonomic Bulletin & Review
SAGE Open
The Quantitative Methods for Psychology

LECTURES

Design and analysis of empirical studies 2022 / 2023
Bachelor | *University of Mannheim*

Quantitative research methods: Inferential statistics 2022
Bachelor | *Heidelberg University*

Research design 2022
Bachelor | *Heidelberg University*

SEMINARS

Advanced data analysis in R 2022
Master | *Heidelberg University*

Research colloquium 2022
Bachelor/Master | *Heidelberg University*

Bayesian modeling of individual differences 2021
Master | *University of Mannheim*

Introduction to R: Basics & applications 2020 / 2021
Master | *Philipps University of Marburg*

Honest answers to critical questions 2019
Bachelor | *University of Mannheim*

GRADUATE WORKSHOPS

Qualitative individual differences 2023
Social Cognition Center, University of Cologne

Sequential hypothesis testing: Introduction & application 2023
University of Zurich

Evidence, errors, & beliefs: The statistical inference maze 2020 / 2023
RTG Statistical Modeling in Psychology

Introduction to Bayesian modeling 2021 / 2022 / 2024
RTG Statistical Modeling in Psychology

Research organization and useful software 2020 – 2023
RTG Statistical Modeling in Psychology

Advanced topics in R 2020 / 2021
RTG Statistical Modeling in Psychology

Introduction to R: Basics & advanced 2018 – 2021
RTG Statistical Modeling in Psychology

SUPERVISION

DOCTORAL STUDENTS (1)

Selina Zajdler from 03 / 2024

MASTER STUDENTS (10)

Steffen Ernst, Franziska Leipold, Roberto Scatorchia, Selina Zajdler 2023

Chiara Alissa Hiller, Sophie Jost, Simon Steiger 2022

Lasse Elsemüller, John Fischer, Meike Steinhilber 2021

BACHELOR STUDENTS (5)

Tanja Mörstedt, Eva Pöhlmann 2024

Thilo Bergner 2023

Selina Zajdler 2021

Louisa Dreßler 2020

HONORS

Teaching Award for Best Lecture in Psychology 2023

University of Mannheim, academic year 2022/2023

Best Presentation Award 2019

Conference of the Interuniversity Graduate School of Psychometrics and Sociometrics

Otto Selz Award for Best Bachelor Thesis in Psychology 2015

University of Mannheim

ACADEMIC SERVICE

Postdoctoral Representative in a Faculty Search Committee 2024

School of Social Sciences | University of Mannheim

Postdoctoral Representative in the Study Commission since 2023

School of Social Sciences | University of Mannheim

Organizer of a Conference for Doctoral Students 2019

Section General Psychology | German Psychological Society

Ph.D. Candidate Spokesperson 2018 - 2019

RTG Statistical Modeling in Psychology

MEMBERSHIPS

Society for Mathematical Psychology seit 2023

Psychonomic Society seit 2021

Society for the Improvement of Psychological Science seit 2021

German Psychological Society (DGPs) seit 2018

Sections Methods & Assessment and General & Cognitive Psychology

REFERENCES

Prof. Dr. Edgar Erdfelder

Cognitive Psychology | *University of Mannheim*
erdfelder@uni-mannheim.de

Prof. Julia M. Haaf, Ph.D.

Psychological Methods, Statistics, and Evaluation | *University of Potsdam*
julia.haaf@uni-potsdam.de

Prof. Dr. Daniel W. Heck

Psychological Methods | *Philipps University of Marburg*
dheck@uni-marburg.de

Prof. Dr. Thorsten Meiser

Research Methods & Psychological Assessment | *University of Mannheim*
t.meiser@uni-mannheim.de

Prof. Jeffrey N. Rouder, Ph.D.

Structure in Perception and Cognition | *University of California, Irvine*
jrouder@uci.edu