

CURRICULUM VITAE  
**DR. MARTIN SCHNUERCH**

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DFG Research Training Group “Statistical Modeling in Psychology” (SMiP)  
Universities of Freiburg, Heidelberg, Landau,  
Mannheim, & Tübingen  
B6, 30–32, 68159 Mannheim, Germany  
+49 621 181-1891  
martin.schnuerch@psychologie.uni-mannheim.de

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### Academic Positions

- 03/2020–05/2020 *Visiting Researcher at the University of California, Irvine*  
Department of Cognitive Sciences  
Structure in Perception and Cognition Lab (Jeffrey N. Rouder)
- 03/2020– *Postdoctoral Researcher in the DFG Research Training Group “Statistical Modeling in Psychology”*  
Universities of Freiburg, Heidelberg, Landau, Mannheim, & Tübingen
- 11/2019 *Visiting Researcher at the University of Tübingen*  
Department of Psychology, Faculty of Science  
Cognition & Perception Lab (Rolf Ulrich)
- 10/2017–02/2020 *Research and Teaching Associate at the University of Mannheim*  
DFG Research Training Group “Statistical Modeling in Psychology” (SMiP)  
Cognitive Psychology & Individual Differences Lab (Edgar Erdfelder)

### Education

- 10/2017–02/2020 *Ph.D. in Psychology at the University of Mannheim*  
DFG Research Training Group “Statistical Modeling in Psychology” (SMiP)  
Thesis: Improving statistical practice in psychological research: Sequential tests of composite hypotheses  
Advisors: Edgar Erdfelder, Rolf Ulrich, Karl Christoph Klauer  
Final grade: 0 (summa cum laude)
- 2016 *Semester Abroad at the University of Oslo*  
Department of Psychology, Faculty of Social Sciences
- 08/2014–05/2017 *M.Sc. in Cognitive and Clinical Psychology at the University of Mannheim*  
Thesis: Valued opinions: The influence of social value on memory and attentional selection  
Advisors: Edgar Erdfelder, Martin Brandt  
Final grade: 1.0 (with distinction)
- 07/2011–07/2014 *B.Sc. in Psychology at the University of Mannheim*  
Thesis: Output interference in recognition memory: A global-memory-model perspective  
Advisors: Edgar Erdfelder, Martin Brandt  
Final grade: 1.1 (with distinction)

## Practical Training and Internships

2017	<i>Business Internship at Meta / Five Human Performance Consulting</i> Business and personell consultancy (13 weeks)
2017	<i>Clinical Internship at the LVR Hospital Cologne</i> Clinic for Psychiatry and Psychotherapy (8 weeks)
2015	<i>Research Internship at the University of Bonn</i> Motivation, Emotion, and Learning Lab (6 weeks)
2012–2013	<i>Research Internship at the University of Mannheim</i> Cognitive Psychology and Individual Differences Lab (part-time)

## Research Interests

My research focuses on the development and implementation of innovative statistical hypothesis-testing methods, as well as the combination of these methods with mathematical models of psychological processes. The aim is to provide researchers with state-of-the-art techniques to formalize and test psychological theories.

My main areas of research are:

- ▶ Sequential testing techniques for simple and composite hypotheses
- ▶ Bayesian methods for hypothesis testing and model selection
- ▶ Measurement models of cognitive processes (multinomial processing tree models)
- ▶ Computational/simulation models of memory processes

## Publications

- Schnuerch, M.** (2020). *Improving statistical practice in psychological research: Sequential tests of composite hypotheses* (Doctoral dissertation). University of Mannheim, Mannheim.
- 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.
- Schnuerch, M.**, Erdfelder, E., & Heck, D. W. (2020). Sequential hypothesis tests for multinomial processing tree models. *Journal of Mathematical Psychology*, *95*, 102326.
- Schnuerch, M.**, & Erdfelder, E. (2020). Controlling decision errors with minimal costs: The sequential probability ratio  $t$  test. *Psychological Methods*, *25*, 206–226.
- 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.
- 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.

## Conference Contributions and Invited Talks

- Schnuerch, M.** (2019). *Gender differences in casual sex: Application of a sequential randomized response analysis*. Invited talk presented at the Perception and Cognition Lab (Rolf Ulrich), University of Tübingen, Germany.
- Schnuerch, M.** (2019). *Efficient hypothesis testing with the sequential probability ratio  $t$  test*. Talk presented at the 8th Workshop for Doctoral Students in Experimental Psychology (A-Dok), Mannheim, Germany.

- Schnuerch, M., & Erdfelder, E. (2019).** *Efficient hypothesis tests in multinomial processing tree models: A sequential probability ratio test for the randomized response technique.* Talk presented at the 2019 European Mathematical Group Meeting, Heidelberg, Germany.
- Schnuerch, M. (2019).** *Efficiently testing sensitive attributes: A sequential randomized response technique.* Talk presented at the 61st Conference of Experimental Psychologists, London, UK.
- Schnuerch, M. (2019).** *Sequential hypothesis tests for multinomial processing tree models.* Talk presented at the 34th IOPS Summer Conference, Utrecht, Netherlands.
- Schnuerch, M. (2018).** *Efficiently testing sensitive attributes: A sequential randomized response technique.* Invited talk presented at the Perception and Cognition Lab (Rolf Ulrich), University of Tübingen, Germany.
- Schnuerch, M. (2018).** *Sequential analysis of surveys with randomized response models.* Talk presented at the SMiP Summer Retreat, Wiesneck, Germany.
- Schnuerch, M. (2018).** *Sequential statistical methods in psychology.* Talk presented at the SMiP Winter Retreat, St. Martin, Germany.
- Schnuerch, M., & Erdfelder, E. (2018).** *Controlling statistical decision errors with minimal costs: Relative efficiency of sequential probability ratio tests vs. Bayesian t-tests.* Talk presented at the 60th Conference of Experimental Psychologists, Marburg, Germany.
- Schnuerch, M., Heck, D. W., & Erdfelder, E. (2018).** *Waldian t tests: A sequential Bayes factor design for accepting and rejecting the null hypothesis with controlled error probabilities.* Talk presented at the 2018 European Mathematical Psychology Group Meeting, Genoa, Italy.
- Schnuerch, M., & Wulff, L. (2018).** *As you like it: Social value affects recognition memory.* Poster presented at the 7th Workshop for Doctoral Students in Experimental Psychology (A-Dok), Mainz, Germany.

### Ad-hoc Reviewing

- ▶ Psychological Methods
- ▶ Psychonomic Bulletin & Review
- ▶ Behavior Research Methods
- ▶ SAGE Open

### University Service

- 07/2019            *Organizing Committee of the A-Dok 2019*  
Workshop for doctoral students of the General Psychology section of the German Psychological Society (DGPs)
- 09/2018–11/2019   *Ph.D. Candidate Spokesperson*  
DFG Research Training Group “Statistical Modeling in Psychology” (SMiP)
- 10/2011–07/2016   *Member of the Psychology Student Council*  
School of Social Sciences, University of Mannheim

## Professional Memberships

- ▶ *Association for Psychological Science (APS)*
- ▶ *German Psychological Society (DGPs)*  
Sections “Methods and Evaluation” and “General Psychology”

## Teaching

- 10/2019            *Workshop “Introduction to R: Basics & Advanced”*  
Ph.D. Psychology  
DFG Research Training Group “Statistical Modeling in Psychology” (SMiP)
- 02/2019–07/2019   *Seminar “Honest answers to sensitive questions”*  
B.Sc. Psychology  
University of Mannheim
- 03/2019            *Workshop “Introduction to R”*  
Invited workshop at the “MaP-Kon” (Mannheim Psychology Conference)
- 01/2019            *Workshop “Introduction to R”*  
Invited workshop at the Work & Organizational Psychology Lab (Sabine Sonnentag),  
University of Mannheim
- 11/2018            *Workshop “Introduction to R: Basics & Advanced”*  
Ph.D. Psychology  
DFG Research Training Group “Statistical Modeling in Psychology” (SMiP)
- 08/2013–07/2016   *Tutorial “Quantitative Methods in Psychology”*  
B.Sc. Psychology  
University of Mannheim

## Honors

- 06/2019            *IOPS Best Presentation Award*  
34th Summer Conference, Utrecht, Netherlands  
Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)
- 08/2017            *Offer of a Ph.D. Scholarship* (declined)  
Graduate School for Economic and Social Sciences (GESS)  
University of Mannheim
- 07/2015            *Otto Selz Award for Best Bachelor Thesis in Psychology*  
School of Social Sciences, University of Mannheim
- 07/2014            *Award for Best Undergraduate Course Achievement*  
School of Social Sciences, University of Mannheim
- 02/2012–05/2017   *Scholarship of the German Academic Scholarship Foundation*  
Studienstiftung des deutschen Volkes
- 06/2010            *Social Award of the City of Kaarst*  
Honored for outstanding social commitment

## Programming and Computer Literacy

Statistics	R/RStudio (expert) SPSS (expert) JASP (advanced) C++ (basic)
Experimentation	OpenSesame (expert) E-Prime (advanced)
Word processing	L <sup>A</sup> T <sub>E</sub> X (expert) R Markdown (expert)

## Languages

- ▶ German (native)
- ▶ English (fluent)
- ▶ Norwegian (fluent)
- ▶ Danish (basic)
- ▶ Spanish (basic)

## Potential Referees

- ▶ *Prof. Dr. Edgar Erdfelder*  
Cognitive Psychology and Individual Differences Lab  
University of Mannheim  
Tel.: +49 621 181-2145  
E-Mail: erdfelder@uni-mannheim.de
- ▶ *Prof. Dr. Rolf Ulrich*  
Cognition and Perception Lab  
University of Tübingen  
Tel.: +49 7071 29-72410  
E-Mail: ulrich@uni-tuebingen.de
- ▶ *Prof. Dr. Daniel W. Heck*  
Psychological Methods Lab  
University of Marburg  
Tel.: +49 6421 28-23669  
E-Mail: dheck@uni-marburg.de



Mannheim, May 3, 2020