

# DR. SIMONE MALEJKA

Postdoctoral Research and Teaching Fellow

School of Social Sciences  
University of Mannheim  
68131 Mannheim, Germany

Email: malejka@uni-mannheim.de

## EDUCATION

- 2017 **Doctorate in Cognitive Psychology (comparable to Ph.D.)**  
University of Mannheim, Germany  
Thesis: “Challenging the pole position of signal-detection theory in memory research”  
*Advisor: Arndt Bröder*
- 2011 **Diploma in Psychology (comparable to M.Sc.)**  
University of Mannheim, Germany  
Thesis: “Why tests improve memory: A model-based analysis of the testing effect”  
*Advisor: Edgar Erdfelder*

## ACADEMIC POSITIONS

- 2017–present **Postdoctoral teaching fellow**  
Department of Psychological Methods, University of Mannheim, Germany  
Research topics: testing effect, recognition memory, model selection  
*Advisor: Thorsten Meiser*
- 2014–2017 **Postgraduate teaching fellow**  
Department of Experimental Psychology, University of Mannheim, Germany  
Research topics: recognition and source memory, model selection  
*Advisor: Arndt Bröder*
- 2013 **Visiting researcher (six months)**  
Department of Experimental Psychology, University College London, UK  
Project: “A test of the distribution-based bifurcation model of the testing effect”  
*Advisor: David R. Shanks*
- 2011–2014 **Postgraduate research fellow**  
Department of Experimental Psychology, University of Mannheim, Germany  
Project: “Continuous vs. discrete modeling of recognition and source memory”  
*Principal Investigator & Advisor: Arndt Bröder*

- 2009 **Visiting researcher (six months)**  
 School of Social Sciences, University of California at Irvine, USA  
 Project: “A multinomial processing-tree model for the testing effect”  
*Advisor: William H. Batchelder*
- 2006–2011 **Student assistant**  
 Department of Cognition & Individual Differences, University of Mannheim, Germany  
*Supervisor: Edgar Erdfelder*

## COMPETITIVE AWARDS

- 2017 **Winner of the MathPsych Best Poster Award**  
 Awarded by the Society for Mathematical Psychology (SMP)  
 Poster: “Testing core properties of recognition-memory models: Ranking judgments are consistent with two-high-threshold theory”
- 2016 **Recipient of the Shiffrin Travel Award**  
 Awarded by the Indiana University at Bloomington
- Winner of the Rational Altruists Travel Award**  
 Awarded by the University of Mannheim (*Rationale Altruisten Mannheim*)  
 Paper: “Exploring the shape of signal-detection distributions in individual recognition ROC data”
- Winner of the TeaP Selected Poster Award**  
 Awarded by the Cognitive Section of the German Society for Psychology (DGPs)  
 Poster: “A serious caveat on using implied base rates to manipulate response bias in recognition”
- 2013 **Recipient of the Young Scholar Award in Social & Behavioral Sciences**  
 Awarded by the Graduate School of Economic and Social Sciences (GESS)  
 Research proposal: “Putting testing to the test: Why do tests improve memory?”

## SCHOLARSHIPS

- 2017 **Travel scholarship**  
 Granted by the German Society for Psychology (DGPs)  
 Amount: € 240
- 2016 **Six-month full-study scholarship**  
 Granted by the University of Mannheim (*Landesgraduierföderung*)  
 Amount: € 7,200

## SCHOLARSHIPS (CONTINUED)

- 2015 **Travel scholarship for international conferences**  
Granted by the German Academic Exchange Service (DAAD)  
Amount: €1,200
- Six-month full-study scholarship**  
Granted by the Graduate School of Economic and Social Sciences (GESS)  
Amount: €7,200
- 2011 **One-year full-study scholarship**  
Granted by the Graduate School of Economic and Social Sciences (GESS)  
Amount: €14,400
- 2009 **Travel scholarship for international research internships**  
Granted by the German Academic Exchange Service (DAAD)  
Amount: €450

## INTERNAL GRANTS

- 2016 **SQL grants for international conferences**  
Amount: €2,300 + €1,900
- 2015 **IPID4all grant and SQL grant for international conferences**  
Amount: €1,100 + €3,200
- 2013 **Small grant for doctoral research abroad**  
Amount: €760
- 2012 **Full funding for attendance of summer schools**  
Amount: €1,100
- 2011 **Small grant for doctoral research and conferences**  
Amount: €3,000

## PEER-REVIEWED PUBLICATIONS

- 2017 Bröder, A., & Malejka, S. (2017). On a problematic procedure to manipulate response biases in recognition experiments: The case of “implied” base rates. *Memory, 25* 736–743.
- 2016 Malejka, S., & Bröder, A. (2016). No source memory for unrecognized items when implicit feedback is avoided. *Memory & Cognition, 44*, 63–72.

## CONFERENCE PRESENTATIONS

- 2017 Malejka, S., Heck, D. W., & Erdfelder, E. (2017, July). *Testing core properties of recognition-memory models: Ranking judgments are consistent with two-high-threshold theory*. Poster presented at the 50<sup>th</sup> Meeting of the Society for Mathematical Psychology (MathPsych), Warwick, UK. **Winner of the MathPsych Best Poster Award by the Society for Mathematical Psychology (SMP).**
- Malejka, S., Heck, D. W., & Erdfelder, E. (2017, March). *Comparing recognition-memory models under minimal assumptions: Ranking judgments are consistent with two-high-threshold theory*. Talk given at the 59<sup>th</sup> Meeting of Experimental Psychologists (TeaP), Dresden, Germany.
- 2016 Malejka, S., & Bröder, A. (2016, November). *Implied versus actual base rates for manipulating response biases in recognition memory*. Poster presented at the 57<sup>th</sup> Annual Meeting of the Psychonomic Society (Psychonomics), Boston, MA, USA.
- Malejka, S., & Bröder, A. (2016, August). *On the shape of memory-strength distributions in individual ROC data*. Poster presented at the 49<sup>th</sup> Annual Meeting of the Society for Mathematical Psychology (MathPsych), New Brunswick, NJ, USA.
- Bröder, A., & Malejka, S. (2016, July). *Manipulating response bias in recognition memory: The case of implied base rates*. Talk given at the 6<sup>th</sup> International Conference on Memory (ICOM), Budapest, Hungary.
- Malejka, S., & Bröder, A. (2016, July). *On the shape of signal-detection distributions in individual recognition ROC data*. Talk given at the 6<sup>th</sup> International Conference on Memory (ICOM), Budapest, Hungary.
- Malejka, S., & Bröder, A. (2016, March). *A serious caveat on using implied base rates to manipulate response bias in recognition*. Poster presented at the 58<sup>th</sup> Meeting of Experimental Psychologists (TeaP), Heidelberg, Germany. **Winner of the TeaP Selected Poster Award by the *Fachgruppe Allgemeine Psychologie* of the German Society for Psychology (DGPs).**
- 2015 Malejka, S., & Bröder, A. (2015, November). *The butcher-on-the-bus reversed: Is there convincing evidence of source memory for unrecognized items?* Poster presented at the 56<sup>th</sup> Annual Meeting of the Psychonomic Society (Psychonomics), Chicago, IL, USA.
- Malejka, S., Heck, D. W., & Erdfelder, E. (2015, July). *Discrete-state and continuous-strength models of recognition memory: Lure detection in the context of strong versus weak targets*. Poster presented at the 48<sup>th</sup> Annual Meeting of the Society for Mathematical Psychology (MathPsych), Newport Beach, CA, USA.
- Malejka, S., & Bröder, A. (2015, March). *Source memory for unrecognized items—A procedural artifact*. Talk given at the 57<sup>th</sup> Meeting of Experimental Psychologists (TeaP), Hildesheim, Germany.

## CONFERENCE PRESENTATIONS (CONTINUED)

- 2014 Malejka, S., & Erdfelder, E. (2014, November). *Retrieval practice improves maintenance in memory—not memory retrieval*. Poster presented at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society (Psychonomics), Long Beach, CA, USA.
- Malejka, S., & Bröder, A. (2014, July). *Source discrimination for unrecognized items? On empirical arguments against the high-threshold model of source memory*. Poster presented at the 36<sup>th</sup> Annual Meeting of the Cognitive Science Society (CogSci), Québec City, Canada.
- Malejka, S., & Bröder, A. (2014, July). *Beyond correlated model fits of continuous-strength and discrete-state models of recognition memory*. Talk given at the 47<sup>th</sup> Annual Meeting of the Society for Mathematica Psychology (MathPsych), Québec City, Canada.
- Malejka, S., & Speekenbrink, M. (2014, April). *Testing continuous and discrete models of signal detection: The effect of stimulus strength and perceptual noise*. Poster presented at the 56<sup>th</sup> Meeting of Experimental Psychologists (TeaP), Gießen, Germany.
- 2013 Malejka, S., & Speekenbrink, M. (2013, August). *Continuous vs. discrete models of signal detection: An exploration of the subjective uncertainty area*. Talk given at the 46<sup>th</sup> Annual Meeting of the Society for Mathematical Psychology (MathPsych), Potsdam, Germany.
- Malejka, S., & Erdfelder, E. (2013, July). *Disentangling the cognitive processes underlying the testing effect*. Poster presented at the 35<sup>th</sup> Annual Meeting of the Cognitive Science Society (CogSci), Berlin, Germany.
- Malejka, S., & Bröder, A. (2013, April). *Bridging the gap between continuous and discrete measurement models of recognition memory*. Talk given at the 55<sup>th</sup> Meeting of Experimental Psychologists (TeaP), Vienna, Austria.
- 2012 Malejka, S., & Bröder, A. (2012, September). *On the similarity of continuous and discrete measurement models of recognition memory*. Poster presented at the 48<sup>th</sup> Meeting of German Society for Psychology (DGPs), Bielefeld, Germany.
- Malejka, S., & Erdfelder, E. (2012, April). *Testing the testing effect: A multinomial processing-tree analysis*. Talk given at the 54<sup>th</sup> Meeting of Experimental Psychologists (TeaP), Mannheim, Germany.

## UNIVERSITY SERVICE

- 2016–present Elected deputy to the graduate representative in the Council on Undergraduate Education (*Studienkommission*)
- Fall 2016 Representative of the pre/postdoctoral fellows in the Academic Search Committee for the assistant professorship on “Educational psychology: Quality of instruction in heterogeneous contexts” (*Berufungskommission*)

## TEACHING & STUDENT SUPERVISION

### **Primary instructor of undergraduate courses**

- |             |  |
|-------------|--|
| Fall 2017   | Research methods: Data analysis using SPSS (50+ students)                  |
| Spring 2017 | Diagnostic assessment: Psychological testing and assessment (20+ students) |
| Fall 2016   | Research methods: Data analysis using SPSS (30+ students)                  |
| Spring 2016 | Empirical research skills: Item and source memory (10+ students)           |
| Spring 2015 | Empirical research skills: How practice makes perfect (10+ students)       |
| Fall 2014   | Cognitive psychology: Classics of memory psychology (20+ students)         |

### **Co-supervisor of M.Sc. theses**

- |           |   |
|-----------|---|
| Fall 2017 | Stefan Ebert: An empirical validation of the retrieval parameter in a multinomial processing-tree model for the testing effect. |
|-----------|---|

### **Supervisor of B.Sc. theses**

- |             |   |
|-------------|---|
| Spring 2017 | Ann Sophie Ciecior: No source memory for unrecognized items despite high participant motivation.<br><br>Christina Möller: Feedback salience explains apparent source memory for unrecognized items. |
| Fall 2014   | Maria Stillfried: Easy versus difficult tests: Does test format moderate the testing effect in short-term retention?  |

### **Mentor of research interns**

- |           |  |
|-----------|--|
| Fall 2015 | Myriam Guderjan: An empirical validation of the encoding parameter in a multinomial processing-tree model for the testing effect.<br><br>Maren Kupka: The testing effect in short-term retention—Fact or artifact? |
|-----------|--|

## ATTENDED WORKSHOPS & SUMMER SCHOOLS

- |             |   |
|-------------|---|
| August 2014 | <b>Workshop on “Bayesian Modeling in Cognitive Sciences”</b><br>University of Amsterdam, Netherlands<br><i>Instructors: Michael D. Lee and Eric-Jan Wagenmakers</i> |
| June 2012   | <b>Summer school on “Computational Modeling in Cognition”</b><br>Berguen, Switzerland<br><i>Instructors: Klaus Oberauer, Stephan Lewandowsky, and Simon Farrell</i> |

## AD-HOC REVIEWING

*Experimental Psychology*

## MEMBERSHIPS

2014–present	Psychonomic Society
2013–present	Society for Mathematical Psychology Cognitive Science Society
2012–present	German Society for Psychology (DGPs)

## TECHNICAL SKILLS

Statistics	SPSS (expert), R (proficient), JAGS (proficient), Stan (familiar)
Experiments	E-Prime (expert), PsychoPy (proficient)
Programming	MATLAB (familiar), Python (familiar), C/C++ (familiar)
Other	L <sup>A</sup> T <sub>E</sub> X (expert)