

DAVID KELLEN

430 Huntington Hall ◊ NY 13244, USA
315 · 443 · 2704 ◊ davekellen@gmail.com

PERSONAL

Birth date: December 26th, 1984

Birthplace: Lisbon

Nationality: Portuguese

Marital Status: Single

EMPLOYMENT

Syracuse University

Assistant Professor at the Department of Psychology

September 2016 — present day

University of Basel

Assistant (non-tenure track) at the Cognitive
and Decision Science Group (Prof. Dr. Rui Mata)

September 2014 — August 2016

Albert-Ludwigs-Universität Freiburg

Post-Doctoral Researcher at the Department of
Social Psychology and Methodology (Prof. Dr. Karl Christoph Klauer)

May 2011 — August 2014

EDUCATION

Albert-Ludwigs-Universität Freiburg

Doctoral Degree in Psychology (Summa Cum Laude) under
the supervision of Prof. Dr. Karl Christoph Klauer

September 2009 — April 2011

University of Lisbon

Bachelor in Psychology
Master in Psychology (Social Cognition)

September 2003 — October 2008

AWARDS

R. Duncan Luce Outstanding Paper Award

Society for Mathematical Psychology

Klauer, K. C., & **Kellen, D.** (2011). The flexibility of models of recognition memory: An analysis by the minimum-description length principle. *Journal of Mathematical Psychology*, 55, 430-450.

July 2012

TEACHING

Syracuse University

Quantitative Modeling of Cognition (Graduate)
Statistics and Research Design II (Graduate)
Statistics I (Graduate)

Spring Semester 2016/2017

Spring Semester 2016/2017

Fall Semester 2016/2017

University of Basel

Psychology and Law

Spring Semester 2015/2016

Cognitive Modeling
Fundamentals of Human Memory
Research Project
Negotiation

Spring Semester 2015/2016
Fall Semester 2015/2016
Fall+Spring Semester 2014/2015
Spring Semester 2014/2015

Albert-Ludwigs-Universität Freiburg

Social Psychology
Social Psychology

Spring Semester 2013/2014
Fall Semester 2012/2013

THESIS EVALUATION AND/OR SUPERVISION

Doctoral Thesis

Dora Matzke (University of Amsterdam; Supervisor: E.J. Wagenmakers)

December 2014

Master Thesis

Jan Vogt (Albert-Ludwigs-Universität Freiburg)

July 2013

Bachelor Thesis

Markus Steiner (University of Basel)
Yannis Krüger (Albert-Ludwigs-Universität Freiburg)
Julie Linzer (Albert-Ludwigs-Universität Freiburg)
Felicitas Flade (Albert-Ludwigs-Universität Freiburg)

December 2015
July 2014
July 2014
July 2013

ORGANIZED WORKSHOPS AND SYMPOSIA

Symposium: Advances in Mathematical Psychology

September 2015

Tagung der Fachgruppe Methoden & Evaluation der Deutschen Gesellschaft für Psychologie (Jena)

Symposium: Cognitive Models of Memory and Decision Making

April 2015

Tagung experimentell arbeitender Psychologen (Hildesheim)

Symposium: Cognitive Models of Memory and Decision Making

April 2015

Tagung experimentell arbeitender Psychologen (Giessen)

Workshop: Data analysis and modeling methods using R

November 2012

Mannheim University

Workshop: Introduction to R

August 2012

Universität Zürich

Workshop: Introduction to R

October 2011

Mannheim University

MEMBERSHIPS

Society for Mathematical Psychology

Society for Judgment and Decision Making

AD-HOC REVIEWING

Research Funding Institutions

National Science Foundation (USA) Economic & Social Research Council (UK)
Israel Science Foundation

Journals

Behavior Research Methods
British Journal of Mathematical and Statistical Psychology
Cognition
Cognitive Research: Principles and Implications

Consciousness and Cognition
Cognitive Psychology
Experimental Psychology
Frontiers in Cognitive Science
Journal of Applied Research in Memory and Cognition
Journal of Cognitive Psychology
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Mathematical Psychology
Journal of Memory and Language
Memory & Cognition
Psychological Review
Psychological Science
Psychonomic Bulletin & Review
Quarterly Journal of Experimental Psychology

PUBLICATIONS

Submitted or Under Revision

3. **Kellen, D.**, Singmann, H., & Batchelder, W. H. (submitted). *A Note on “Quantum-Like” Order Effects in Human Judgments.*
2. Skovgaard-Olsen, N., **Kellen, D.**, Krall, H., & Klauer K. C. (submitted). Relevance differently affects the truth, acceptability, and probability evaluations of and, but, therefore, and if then.
1. Spektor, M. S., **Kellen, D.**, & Hotaling, J. M. (submitted). When the Good Looks Bad: First Experimental Evidence for the Repulsion Effect.

Published

27. **Kellen, D.** Kellen, D., Mata, R., & Davis-Stober. (in press). Individual Classification of Strong Risk Attitudes: An Application Across Contexts and Age Groups. *Psychonomic Bulletin & Review*.
26. **Kellen, D.** & Klauer, K. C. (in press). *Elementary Signal Detection and Threshold Theory*. The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience.
25. **Kellen, D.**, Erdfelder, E., Malmberg, K., Dube, C., & Criss, A. (2016). The Ignored Alternative: An Application of Luce's Low-threshold Model to Recognition Memory. *Journal of Mathematical Psychology*, 75,86-95.
24. **Kellen, D.**, Pachur. T., & Hertwig, R. (in press). How (In)Variant Are Subjective Representations of Described and Experienced Risk and Rewards? *Cognition*, 157, 126-138.
23. **Kellen, D.** & Singmann, H. (2016). Evaluating ROC residuals in signal-detection models of recognition memory. *Psychonomic Bulletin & Review*, 23, 253-264.
22. **Kellen, D.** & Klauer, K. C. (2015). Continuous and discrete-state modeling of confidence-rating ROCs: A critical test with minimal assumptions. *Psychological Review*, 122, 542-557.
21. Klauer, K. C. & **Kellen, D.** (2015). *The Flexibility of Models of Recognition Memory: The Case of Confidence Ratings*. *Journal of Mathematical Psychology*, 66, 8-25.

20. Klauer, K. C., Singmann, H., & **Kellen, D.** (2015). Parametric order constraints in Multinomial Processing Tree models: An extension of Knapp & Batchelder (2004). *Journal of Mathematical Psychology*, *64*, 1-5.
19. **Kellen, D.**, Singmann, H., Vogt, J., & Klauer, K. C. (2015). Further Evidence for Discrete-State Mediation in Recognition Memory. *Experimental Psychology*, *62*, 40-53.
18. **Kellen, D.**, & Klauer, K. C. (2014). Discrete State and Continuous Models of Recognition Memory: Testing Core Properties under Minimal Assumptions. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *40*, 1795-1804.
17. Castela, M., **Kellen, D.**, Erdfelder, E., & Hilbig, B. E. (2014). The impact of subjective recognition experiences on recognition heuristic use: A multinomial processing tree approach. *Psychonomic Bulletin & Review*, *21*, 1131-1138.
16. **Kellen, D.**, Singmann, H., & Klauer K. C. (2014). Modeling Source Memory Overdistribution. *Journal of Memory and Language*, *76*, 216-236.
15. Singmann, H. & **Kellen, D.** (2014). Concerns with the SDT Approach to Causal Conditional Reasoning: A Comment on Trippas, Handley, Verde, Roser, McNair, and Evans (in press). *Frontiers in Psychology*, *5*, 402.
14. Singmann, H., Klauer, K. C., & **Kellen, D.** (2014). Claims of Intuitive Logic Revisited: New Data and a Bayesian Mixed-Model Comparison. *PLOS ONE*, *9*, e94223.
13. Dittrich, K., **Kellen, D.**, & Stahl, C. (2014). Analyzing distributional properties of interference effects across modalities: Chances and challenges. *Psychological Research*, *78*, 387-399.
12. Bröder, A., **Kellen, D.**, Schtz, J., & Rohrmeier, C. (2013). Validating a Two-High-Threshold Measurement Model for Confidence Rating Data in Recognition. *Memory*, *20*, 916-944.
11. Pachur, T., & **Kellen, D.** (2013). Modeling Gain-Loss Asymmetries in Risky Choice: The Critical Role of Probability Weighting. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society. Austin, TX: Cognitive Science Society.
10. Singmann, H., **Kellen, D.**, & Klauer, K. C. (2013). Investigating the Other-Race Effect of Germans towards Turks and Arabs using Multinomial Processing Tree Models. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society. Austin, TX: Cognitive Science Society.
9. **Kellen, D.**, Klauer, K. C., & Singmann, H. (2013). On the Measurement of Criterion Noise in Signal Detection Theory: Reply to Benjamin (2013). *Psychological Review*, *120*, 727-730.
8. **Kellen, D.**, Klauer, K. C., & Bröder, A. (2013). Recognition Memory Models and Binary-Response ROCs: A Comparison by Minimum Description Length. *Psychonomic Bulletin & Review*, *20*, 693-719.
7. Singmann, H., & **Kellen, D.** (2013). MPTinR: Analysis of Multinomial Processing Tree models with R. *Behavior Research Methods*, *45*, 560-575.
6. **Kellen, D.**, Klauer, K. C., & Singmann, H. (2012). On the measurement of criterion noise in Signal Detection Theory: The case of recognition memory. *Psychological Review*, *119*, 457-479.
5. Klauer, K. C., & **Kellen, D.** (2012). The Law of Categorical Judgment (Corrected) extended: A note on Rosner and Kochanski (2009). *Psychological Review*, *119*, 216-220.
4. Klauer, K. C., & **Kellen, D.** (2011). The flexibility of models of recognition memory: An analysis by the minimum-description length principle. *Journal of Mathematical Psychology*, *55*, 430-450.

3. **Kellen, D.**, & Klauer, K. C. (2011). Evaluating models of recognition memory using first- and second-choice responses. *Journal of Mathematical Psychology*, 55, 251-266.
2. Klauer, K. C., & **Kellen, D.** (2011). Assessing the belief bias effect with ROCs: Reply to Dube, Rotello, and Heit (2010). *Psychological Review*, 118, 164-173.
1. Klauer, K. C., & **Kellen, D.** (2010). Toward a complete decision model of item and source recognition: A discrete-state approach. *Psychonomic Bulletin & Review*, 17, 465-478.

GRANTS

(PI) Evaluating Continuous, Discrete and Hybrid Models of Recognition Memory. *Grant attributed by the Swiss National Science Foundation (CH 240,000).*

(Co-PI) Trackable Reasoning and Analysis for Collaboration and Evaluation. *Grant attributed by the Program of the Intelligence Advanced Research Projects Activity (IARPA) (\$ 11,500,000).*

INVITED TALKS

6. *Evaluating Recognition Memory Models: A Critical Review*. September 23th, 2015. Cognitive Psychology Group, University of Zürich.
5. *Discrete-State and Continuous Models of Recognition Memory: Testing Critical Properties*. May 23th, 2015. 27th Annual Convention of Association for Psychological Science.
4. *Variants and invariants between description-based and experience-based choices under risk*. May 15th, 2014. Center for Adaptive Rationality, Max Planck Institute for Human Development, Berlin.
3. *Introduction to categorical data analysis and MPT modeling*. October 16th, 2013. New Frameworks of Rationality Workshop. FRIAS Institute, University of Freiburg.
2. *Recognition memory modeling: From confidence ratings to item rankings, and back*. June, 21st, 2012. Economic Psychology Group, Universität Basel
1. *Recognition memory modeling: Beyond ROCs*. September 29th, 2011. Cognitive and Differential Psychology Group, Mannheim University.

CONFERENCE ABSTRACTS AND PRESENTATIONS

16. **Kellen, D.** & Klauer, K. C. (2015). Signal detection and threshold modeling of confidence-rating ROCs: A critical test. Paper presented at the *48th Annual Meeting of the Society for Mathematical Psychology*, Newport Beach, USA.
15. **Kellen, D.** & Klauer, K. C. (2015). Signal detection and threshold modeling of confidence-rating ROCs: A critical test. Paper presented at the *Tagung experimentell arbeitender Psychologen 2015*, Hildesheim, Germany.
14. **Kellen, D.** & Pachur (2014). Hierarchical-Bayesian Modeling of Description and Experience-Based Decisions: A Cumulative Prospect Theory Account. Paper presented at the *Annual Conference of the Society for Judgment and Decision Making*, Long Beach, USA.
13. **Kellen, D.** & Klauer, K. C. (2014). Discrete State and Continuous Models of Recognition Memory: Testing Core Properties under Minimal Assumptions. Paper presented at the *European Mathematical Psychology Group Meeting*, Tübingen, Germany.
12. **Kellen, D.**, & Klauer, K. C. (2014). Recognition Memory Models and Confidence-Rating ROCs: A Comparison by Normalized Maximum Likelihood. Poster presented at the *47th Annual Meeting of the Society for Mathematical Psychology*, Quebec City, Canada.

11. **Kellen, D.** & Klauer, K. C. (2014). New tests for comparing continuous and discrete-state assumptions in recognition-memory modeling. Paper presented at the *Tagung experimentell arbeitender Psychologen 2014*, Giessen, Germany.
10. Ragni, M., Singmann, H., **Kellen, D.**, Khemlani, S., Steinlein, E.-M., & Klauer, K. C. (2014). A Meta Analysis of Syllogistic Reasoning using Multinomial Processing Tree Models. Paper presented at the *Tagung experimentell arbeitender Psychologen 2014*, Giessen, Germany.
9. **Kellen, D.**, Klauer, K. C., & Bröder, A. (2013). The flexibility of models of recognition memory: An analysis by the minimum-description length principle. Paper presented at the *46th Annual Meeting of the Society for Mathematical Psychology*, Potsdam, Germany.
8. Castela, M., **Kellen, D.**, Erdfelder, E., & Hilbig, B. E. (2013). The impact of subjective recognition experiences on recognition heuristic use: A multinomial processing tree approach. Poster presented at the *46th Annual Meeting of the Society for Mathematical Psychology*, Potsdam, Germany.
7. Linzer, J., **Kellen, D.**, Singmann, H., & Klauer, K. C. (2013). Modeling Overdistribution in Source Memory: Memory versus Guessing-Based Accounts. Poster presented at the *46th Annual Meeting of the Society for Mathematical Psychology*, Potsdam, Germany.
6. **Kellen, D.**, Klauer, K. C., & Singmann, H. (2013). Measuring Criterion Noise in Signal Detection Theory: The Case of Recognition Memory. Paper presented at the *Tagung experimentell arbeitender Psychologen 2013*, Vienna, Austria, March, 2013.
5. **Kellen, D.** & Singmann, H. (2013) MPTinR: Multinomial Processing Tree Models in R. Paper to be presented at the *International Workshop on Psychometric Computing*, Zürich, Switzerland.
4. **Kellen, D.**, Klauer, K. C., & Bröder, A. (2012). Recognition Memory Models and Binary-Response ROCs: A Comparison by Minimum Description Length. Poster presented at the *Annual Meeting of the Psychonomic Society*, Minneapolis, Minnesota.
3. **Kellen, D.**, & Klauer, K. C. (2012). The flexibility of models of recognition memory: An analysis by the minimum-description length principle. Paper presented at the *Tagung experimentell arbeitender Psychologen*, Mannheim, Germany.
2. **Kellen, D.**, Klauer, K. C., & Singmann, H. (2011). Beyond ROCs: Fitting and extending recognition memory models with multiple-alternative, multiple-response tasks. Paper presented at the *44th Annual Meeting of the Society for Mathematical Psychology*, Boston, Massachusetts.
1. Singmann, H., **Kellen, D.**, Hölzenbein, F., & Klauer, K. C. (2011). MPTinR: An (almost) complete R package for analyzing MPTs. Poster presented at the 44th Annual Meeting of the Society for Mathematical Psychology, Boston, Massachusetts.