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Born: October 7, 1979—Bonn, Germany

Nationality: German

## Current Position

*Post-Doctoral Researcher*, University of Cologne

## Areas of Specialization

Decision making; information distortion; coherence-based reasoning; artificial network-models; cognitive modeling; statistics and methods; open science

## Appointments

- 2018- Post-Doctoral Researcher (Akademischer Rat, permanent contract), Social Cognition Center Cologne, University of Cologne
- 2016-2018 Lecturer (Lehrkraft für bes. Aufg.), Institut für Psychologie, FernUniversität in Hagen
- 2013-2017 Guest researcher, Max-Planck Institute for Research on Collective Goods, Bonn
- 2015-2016 Researcher, Institut für Psychologie, FernUniversität in Hagen
- 2014-2015 Researcher, Georg-Elias-Müller-Institut für Psychologie, University of Göttingen
- 2011-2014 Researcher, funded by the German Science Foundation (DFG) as part of the priority program SPP 1516 “New Frameworks of Rationality” (applicants: Prof. Dr. Andreas Glöckner & Prof. Dr. Arndt Bröder)
  - 2013-2014 Georg-Elias-Müller-Institut für Psychologie, University of Göttingen
  - 2011-2013 Max-Planck Institute for Research on Collective Goods, Bonn
- 2010-2011 Research fellow, Max-Planck Institute for Research on Collective Goods (advisor: Prof. Dr. Andreas Glöckner)
- 2007-2010 Research fellow, Rheinische Friedrich-Wilhelms-Universität Bonn, Allgemeine Psychologie I (advisor: Prof. Dr. Arndt Bröder)

## Education

### General

- 2007-2012 DR. PHIL., Rheinische Friedrich-Wilhelms-Universität Bonn, Germany  
2000-2006 DIPL.-PSYCH., Ruprecht-Karls Universität Heidelberg, Germany  
2003-2004 Studies in psychology, University of Illinois at Urbana-Champaign, USA

### Workshops and visits (partially or fully funded by stipends)

- 08/2018 & 02/2013 Visiting Prof. Dr. Michel Regenwetter's lab in Urbana-Champaign, Illinois, USA.  
02/2013 Advanced Training Institute in Social Psychology Experiments via the WWW: html5. Fullerton, USA (Gary McClelland & Michael Birnbaum).  
01/2012 Advanced Training Institute in Social Psychology Experiments via the WWW: JavaScript. Fullerton, USA (Michael Birnbaum).  
07/2010 European Society for Cognitive Psychology: Summer school in computational and mathematical modeling of cognition (Stephan Lewandowsky & Klaus Oberauer).  
07/2008 7th Summer Institute on bounded rationality in psychology and economics, MPI Berlin (Gerd Gigerenzer).  
07-08/2007 Summer school International Max Planck Research School on adapting behavior in a fundamentally uncertain world, MPI Jena (Werner Güth).

### Large Project Grants

- 2020-2023 "Coherence-based reasoning: Modelling integration and search of sequentially presented information" (JE 746/1-1, 275.254€), grant awarded by the German Research Foundation (DFG)

### Small Project Grants & Stipends

- 2020-2021 "Attraction search effect and social value orientation" (2.250€), C-SEB Junior Start-Up Grant awarded by C-SEB, University of Cologne  
2017 Travel grant (890€) from FernUniversität in Hagen for presenting at Subjective Probability, Utility, and Decision Making Conference (SPUDM), Haifa, Israel.  
2015 Grant (2.860€) for preparing a research proposal from University of Göttingen  
2014 Grant (\$850; together with Andreas Glöckner) for conducting a replication study from the Center for Open Science  
2010-2011 Stipend research fellow Max Planck Institute Collective Goods  
2003-2004 – Exchange scholarship Ruprecht-Karls Universität Heidelberg and University of Illinois at Urbana-Champaign  
– Exchange stipend from Baden-Württemberg-Stiftung  
– Fulbright stipend

### Peer reviewed publications

# of publications: 18; # of citations = 6566 & h-index = 11 (acc. to Google Scholar; May 2021)

- 2021 Bröder, A., Scharf, S., **Jekel, M.**, Glöckner, A., & Franke, N. (2021). Salience effects in information acquisition: No evidence for a top-down coherence influence. *Memory & Cognition*.

- 2020 Nett, T., Dorrrough, A. R., **Jekel, M.**, & Glöckner, A. (2020). Perceived biological and social characteristics of a representative set of German first names. *Social Psychology, 51*, 17–34.
- Jekel, M.**, Fiedler, S., Allstadt Torras, R., Mischkowski, D., Dorrrough, A. R., & Glöckner, A. (2020). How to teach open science principles in the undergraduate curriculum—the Hagen Cumulative Science Project. *Psychology Learning & Teaching, 19*, 91–106.
- 2019 Glöckner, A., & **Jekel, M.** (2019). Testing cognitive models by a joint analysis of multiple dependent measures including process data. In M. Schulte-Mecklenbeck, A. Kühberger, & J. G. Johnson (Eds.), *A Handbook of Process Tracing Methods* (2nd ed., pp. 356–373). New York: Routledge.
- 2018 Betsch, T., Lehmann, A., **Jekel, M.**, Lindow, S., & Glöckner, A. (2018). Children’s application of decision strategies in a compensatory environment. *Judgment and Decision Making, 13*, 514–528.
- Jekel, M.**, Glöckner, A., & Bröder, A. (2018). A new and unique prediction for cue-search in a parallel-constraint satisfaction network model: The attraction search effect. *Psychological Review, 125*, 744–768.
- Jekel, M.**, & Glöckner, A. (2018). Meaningful model comparisons have to include reasonable competing models and also all data: A rejoinder to Rieskamp (in press). *Journal of Behavioral Decision Making, 31*, 289–293.
- Jekel, M.**, & Glöckner, A. (2018). How to identify strategy use and adaptive strategy selection: The crucial role of chance correction in weighted compensatory strategies. *Journal of Behavioral Decision Making, 31*, 289–293.
- 2017 Koscholke, J., & **Jekel, M.** (2017). Probabilistic coherence measures: A psychological study of coherence assessment. *Synthese, 194*, 1303–1322.
- 2016 Ashby, N. J. S., **Jekel, M.**, Dickert, S., & Glöckner, A. (2016). Finding the right fit: A comparison of cognitive process assumptions underlying popular drift-diffusion models. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 42*, 1982–1993.
- 2015 Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science, 349*(6251).
- 2014 Glöckner, A., Hilbig, B. E., & **Jekel, M.** (2014). What is adaptive about adaptive decision making? A parallel constraint satisfaction theory for decision making. *Cognition, 133*, 641–666.
- Jekel, M.**, Glöckner, A., Bröder, A., & Maydych, V. (2014). Approximating rationality under incomplete information: Adaptive inferences for missing cue values based on cue-discrimination. *Judgment and Decision Making, 9*, 129–147.
- 2012 **Jekel, M.**, Glöckner, A., Fiedler, S., & Bröder, A. (2012). The rationality of different kinds of intuitive decision processes. *Synthese, 189*, 147–160.
- Gollwitzer, M., Rothmund, T., Alt, B., & **Jekel, M.** (2012). Victim sensitivity and the accuracy of social judgments. *Personality and Social Psychology Bulletin, 38*, 975–984.
- 2011 **Jekel, M.**, Fiedler, S., & Glöckner, A. (2011). Diagnostic task selection for strategy classification in judgment and decision making: Theory, validation, and implementation in R. *Judgment and Decision Making, 6*, 782–799.
- Han, G., & **Jekel, M.** (2011). The mediating role of job satisfaction between leader-member exchange and turnover intentions. *Journal of Nursing Management, 19*, 41–49.
- 2010 **Jekel, M.**, Nicklisch, A., & Glöckner, A. (2010). Implementation of the multiple-measure maximum likelihood strategy classification method in R: Addendum to Glöckner

(2009) and practical guide for application. *Judgment and Decision Making*, 5, 54–63.

## Invited workshops

- 2019 Pre-conference workshop about “Computational Cognitive Modeling” at *38<sup>th</sup> Meeting of the European Group of Process Tracing Studies in Judgment and Decision Making* in Dresden, Germany [course language: English]
- 2016 Workshop about panel data analysis / complex regression models at *3rd European Association for Decision Making Judgment and Decision Making Summer School* in Amsterdam, Netherlands (together with Andreas Glöckner) [course language: English]
- 2015 Workshop about spreading activation network models in decision making at the international summer school on *Theories and Methods in Judgment and Decision Making Research* organized by the DFG research unit “Contextualized Decision Making” in Rummelsberg, Germany [course language: English]
- Workshop about cognitive modeling in decision making at *8th Annual Judgment and Decision Making Workshop for Early-Career Researchers* in Göttingen, Germany [course language: English]
- Three short lectures about cognitive modeling of decision making at *University of Erfurt*, Germany
- 2012 Workshop “Rewards of Simulations in Psychology” at *5th Judgment and Decision Making Workshop for Young Researchers* in Basel, Switzerland [course language: English]
- 2009-2011 Advanced workshops about modeling cognitive and social processes in R at *University of Mannheim, University of Marburg, and University of Landau*, Germany

## Talks

- 2019 **Jekel, M.**, Glöckner, A., Fiedler, S., Allstadt Torras, R., Dorrough, A., Mischkowski, D., Franke, N., Goltermann, J., & Miketta, S. (03/2019). The Impact of open science practices on research methodology: A case study for research in Judgment and Decision Making. Talk at Open Science 2019, Trier, Germany.
- 2018 **Jekel, M.**, Glöckner, A., Bröder, A. (11/2018). A new and unique prediction for cue-search in a parallel-constraint satisfaction network model: The attraction search effect. Talk at Center for Empirical Research in Economics and Behavioral Sciences (CEREB), Erfurt, Germany.
- 2017 **Jekel, M.**, Glöckner, A., & Bröder, A. (08/2017). A new and unique prediction for cue-search in a parallel constraint satisfaction network model: The attraction search effect. Talk at Subjective Probability, Utility, and Decision Making Conference (SPUDM), Haifa, Israel.
- 2016 **Jekel, M.**, Glöckner, A., & Hinkelmann, L. (09/2016) Mood and risky decision making. Talk at 50. Kongress der Deutschen Gesellschaft für Psychologie, Leipzig, Germany.  
**Jekel, M.**, Glöckner, A., & Bröder, A. (06/2016). Parallel Constraint Satisfaction model: Information search and attention (Invited Panel Discussion). 35th Meeting of the European Group of Process Tracing Studies, Bonn, Germany.

- Jekel, M., Glöckner, A., & Bröder, A. (03/2016).** Impact of information costs on the attraction search effect in multiple-cue decision making. Talk at 58. Tagung experimentell arbeitender Psychologen (TeaP), Heidelberg, Germany.
- 2015 **Jekel, M., Glöckner, A., & Bröder, A. (03/2015).** Persons do not use fixed search rules in decision making: The attraction search effect. Talk at 57. Tagung experimentell arbeitender Psychologen (TeaP), Hildesheim, Germany.
- 2014 **Jekel, M., Glöckner, A., & Bröder, A. (03/2014).** Designing environments for optimal learning in probabilistic decision making. Talk at 56. Tagung experimentell arbeitender Psychologen (TeaP), Giessen, Germany.
- 2013 **Jekel, M., Glöckner, A., & Bröder, A. (11/2013).** Vergleich zweier Modellklassen zum Erlernen von probabilistischen Zusammenhängen. Talk at 46. Herbsttreffen Experimentelle Kognitionspsychologie, Universität Göttingen, Germany.
- Jekel, M., Glöckner, A., & Bröder, A. (11/2013).** Comparing two classes of formal models of learning in probabilistic decision making. Invited talk at colloquium Theoretische Philosophie (Prof. Dr. Gerhard Schurz) at Heinrich Heine Universität Düsseldorf, Germany.
- Jekel, M., Glöckner, A., Bröder, A., & Maydych, V. (08/2013).** Approximating rationality under incomplete information: Adaptive inference mechanisms for missing cue values. Talk at Subjective Probability, Utility, and Decision Making Conference (SPUDM), Barcelona, Spain.
- Jekel, M., Glöckner, A., & Bröder, A. (08/2013).** Comparing two classes of formal models of learning in probabilistic decision making. Talk at The 46th Annual Meeting of the Society of Mathematical Psychology, Potsdam, Germany.
- Jekel, M., Glöckner, A., & Bröder, A. (03/2013).** Modeling learning in a parallel constraint satisfaction network model. Talk at 55. Tagung experimentell arbeitender Psychologen (TeaP), Wien, Austria.
- Jekel, M., Glöckner, A., Fiedler, S., & Maydych, V. (02/2013).** How to (easily) test competing models in decision making: From process measures of decision behavior to model evaluation. Talk at Quantitative Brownbag, Psychology Department, Urbana-Champaign, Illinois, USA.
- 2012 **Jekel, M., & Glöckner, A. (11/2012).** Doing justice to Benjamin Franklin's ideas: Overestimation of the use of heuristics due to problematic implementations of weighted compensatory strategies. Talk at SJDM, Minneapolis, USA.
- Jekel, M., & Glöckner, A. (03/2012).** Doing justice to Benjamin Franklin's ideas: Overestimation of the use of heuristics due to problematic implementations of weighted compensatory strategies. Talk at 54. Tagung experimentell arbeitender Psychologen (TeaP), Mannheim, Germany.
- Jekel, M., Glöckner, A., Fiedler, S., & Maydych, V. (01/2012).** How to (easily) test competing models in decision making: From process measures of decision behavior to model evaluation. Talk at 50th Annual Edwards Bayesian Research Conference, Los Angeles, USA.
- 2011 **Jekel, M., Glöckner, A., & Fiedler, S. (08/2011).** How to compare process models for decision making: A multiple measure maximum likelihood approach to model evaluation. Talk at Subjective Probability, Utility, and Decision Making Conference (SPUDM), Kingston, England.
- Jekel, M., & Glöckner, A. (03/2011).** Rationalität des Parallel Constraint Satisfaction Netzwerkmodells in feedbackarmen Umwelten. Talk at 53. Tagung experimentell arbeitender Psychologen (TeaP), Halle, Germany.
- 2010 **Jekel, M. (03/2010).** Der Einfluss des Samplings auf die Akkuratheit von Strategien. Talk at 52. Tagung experimentell arbeitender Psychologen (TeaP), Saarbrücken,

Germany.

2009

**Jekel, M.**, Bröder, A., Trakowski, A., Schneider, K. K., Jannes, K., & Nett, N. (08/2009). Desired level of confidence: Reliability and validity. Talk at Subjective Probability, Utility, and Decision Making Conference (SPUDM), Rovereto, Italy.

**Jekel, M.** (03/2009). Natural Sampling versus Selective Sampling: Akkuratheit der Vorhersage kompensatorischer und non-kompensatorischer Cue Integration in Abhängigkeit vom Sampling. Talk at 51. Tagung experimentell arbeitender Psychologen (TeaP), Jena, Germany.

## Teaching

Supervision of approx. 250 Bachelor and 10 Master-theses at FernUniversität in Hagen, various Master- and Bachelor-theses at University of Cologne, University of Göttingen, and University of Bonn

Master and Bachelor-classes held about social cognition, attitudes, cognitive psychology (sensation and perception), diagnostics for school teachers, preparing a Bachelor-thesis, statistical analyses and open science, artificial neuronal networks in psychology, computational modeling of learning, item-response theory, introduction to test-theory, computer assisted data analysis, introduction to R, empirical-experimental practicals, introduction to psychology, and the psychology of emotions

## Service to the Institution

**2020-2022** Member of “Rektorats-Tenure-Kommission” at University of Cologne

## Service to the Profession

Ad hoc reviewer for Acta Psychologica; British Journal of Mathematical and Statistical Psychology; Cognition & Emotion; Cognitive Processing; Cognitive Science; Emotion Review; European Journal of Psychological Assessment; Journal of Behavioral Decision Making; Journal of Behavioral and Experimental Economics; Journal of Business Research; Journal of Cognitive Psychology; Journal of Economic Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Mathematical Psychology; Journal of Socio-Economics; Judgment and Decision Making; Medical Decision Making; Memory & Cognition; MPI Preprints; Psychonomic Bulletin & Review; Organizational Behavior and Human Decision Processes; PeerJ; Quarterly Journal of Experimental Psychology; Review of Psychology Frontier; Social Cognition; Social Psychology; Synthese; and more (see link below)

See also <https://publons.com/researcher/1497414/marc-jekel/peer-review/>.

CV last updated: June 17, 2021