

Dr. rer. soc. Sophie E. Scharf

Postdoctoral Research Associate
Chair of Experimental Psychology
University of Mannheim

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ACADEMIC POSITIONS

since 02/2020 | Postgraduate Teaching Fellow
Experimental Psychology Lab (headed by A. Bröder)
University of Mannheim, Germany

04/2018 - 03/2020 | Research Assistant
Project: Coherence-Based Reasoning: Modelling Attention and Information Search
Principal Investigators: Andreas Glöckner, Arndt Bröder
till 09/2018: FernUniversität Hagen, Germany
since 10/2018: University of Cologne, Germany

09/2017 - 07/2018 | Postgraduate Teaching Fellow
Experimental Psychology Lab (headed by A. Bröder)
University of Mannheim, Germany

EDUCATION

2021 | Doctorate in Cognitive Psychology (equivalent to Ph. D.)
Chair of Experimental Psychology | Center for Doctoral Studies in Social Sciences
Graduate School for Economic and Social Sciences (GESS)
University of Mannheim, Germany, *Grade:* magna cum laude
Thesis Topic: Testing and Validating a Coherence-Based Model for Decision-Making
and Search
Advisors: Arndt Bröder, Andreas Glöckner

09/2014 - 08/2016 | Master of Science in Psychology
University of Mannheim, Germany, *Grade:* 1.1
Title: Model-Based Prediction of Information Search Times in Multi-Attribute
Decisions
Advisors: Marc Jekel, Arndt Bröder

09/2011 - 08/2014 | Bachelor of Science in Psychology
University of Mannheim, Germany, *Grade:* 1.6
Title: Moral Judgment and Mood: How Feeling Good Influences Our Moral Compass
Advisors: Axel Burger, Herbert Bless
08/2013-12/2013: Semester Abroad, Appalachian State University, Boone, NC, USA

RESEARCH INTERESTS

Experimental Psychology

- Judgment and Decision Making
- Information Search and Integration
- Process Tracing Methods

Mathematical Psychology

- Computational Modeling of Cognitive Processes
- Parallel Constraint Satisfaction Models

**PEER-
REVIEWED
PUBLICATIONS**

Scharf, S. E., Jekel, M., & Glöckner, A. (2022). Awareness of option attractiveness increases the attraction search effect: Modelling the awareness effect in an extended iCodes model. *Decision*, 9(1), 43-59. <https://doi.org/10.1037/dec0000162>

Frenken, M., Hemmerich, W., Izydorczyk, D., **Scharf, S.**, & Imhoff, R. (2022). Cognitive processes behind the shooter bias: Dissecting response bias, motor preparation and information accumulation. *Journal of Experimental Social Psychology*, 98, 104230. <https://doi.org/10.1016/j.jesp.2021.104230>

Scharf, G., Meiler, S., Zeman, F., Schaible, J., Poschenrieder, F., Knobloch, C., Kleine, H., **Scharf, S. E.**, ... Hamer, O. W. (2022). Combined model of quantitative evaluation of chest computed tomography and laboratory values for assessing the prognosis of coronavirus disease. In *RöFo-Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren*. Georg Thieme Verlag KG. <https://doi.org/10.1055/a-1731-7905>

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*, 49(8), 1537-1554. <https://doi.org/10.3758/s13421-021-01188-9>

Wulff, L. & **Scharf, S. E.** (2020). Unpacking Stereotype Influences on Source-Monitoring Processes: What Mouse Tracking Can Tell Us. *Journal of Experimental Social Psychology*, 87, 103917. <https://doi.org/10.1016/j.jesp.2019.103917>

Scharf, S. E., Wiegelmann, M., & Bröder, A. (2019). Information Search in Everyday Decisions: The Generalizability of the Attraction Search Effect. *Judgment & Decision Making*, 14(4), 488-512.

In Preparation

Scharf, S. E., Jekel, M., & Bröder, A. (2022). Coherence-based Prediction of Information Search Times in Probabilistic Inference Decisions. *Manuscript in preparation*.

Scharf, S. E., Bröder, A., Jekel, M., & Glöckner, A. (2022). Coherence-influences on attention allocation in open information displays. *Manuscript in preparation*.

**CONFERENCES
& POSTERS** *Only peer-reviewed and presenting author*

Scharf, S. E., Bröder, A., Jekel, M., & Glöckner, A. (2022). *Coherence influences on attention allocation and visual information search in multi-cue decisions*. Poster presented at the 64th Tagung experimentell arbeitender Psychologen (TEAP). Cologne, Germany (online).

Scharf, S. E. & Jekel, M. (2021). *New models offer new insights: Predicting information-search times with iCodes*. Talk presented at the 15th Conference of the Section 'Methods and Evaluation' in the German Psychological Society (DGPs). *Symposium: Mathematical Modeling of Cognitive Processes II: Memory and Decision Making*. Chairs: Arndt Bröder & Sophie E. Scharf Mannheim, Germany (online).

Scharf, S. E., Bröder, A., Jekel, M., & Glöckner, A. (2021). *Coherence influences attention allocation and visual information search in multi-cue decisions*. Poster presented at the 27th Subjective Probability, Utility, and Decision Making Conference (SPUDM). Warwick, United Kingdom (online).

Scharf, S. E., Jekel, M., & Glöckner, A. (2021). *Attractiveness effects on search: Validating an iCodes parameter*. Poster presented at the virtual MathPsych/ICCM 2021.

Scharf, S. E., Fischer, M. & Schnuerch, M. (2020). *The Attraction Search Effect in Older and Younger Adults*. Talk presented at the 62nd Tagung experimentell arbeitender Psychologen (TEAP).
Cancelled due to COVID-19.
Jena, Germany.

Scharf, S. E., Jekel, M., Bröder, A. & Glöckner, A. (2019). *Coherence Effects on Information Search: The Influence of Attractiveness Ratings*. Talk presented at the 21st Conference of the European Society for Cognitive Psychology (ES COP).
Symposium: 10 Years of European Summer School on Computational Modelling of Cognition. Chairs: Klaus Oberauer, Stephan Lewandowsky, Casimir Ludwig, Joachim Vandekerckhove, Robert French, Simon Farrell, Lael Schooler, & Gordon D.A.
Tenerife, Spain.

Scharf, S. E., Jekel, M., Bröder, A. & Glöckner, A. (2019). *Coherence Effects on Information Search: The Influence of Attractiveness Ratings*. Talk presented at the 27th Subjective Probability, Utility, and Decision Making Conference (SPUDM).
Amsterdam, Netherlands.

Scharf, S. E., Bröder, A. & Wiegelmann, M. (2018). *Information Search in Every-Day Decisions: The Generalizability of the Attraction Search Effect*. Poster presented at the 60th Tagung experimentell arbeitender Psychologen (TEAP).
Marburg, Germany.

Scharf, S. E., Jekel, M. & Bröder, A. (2017). *Coherence-based prediction of information search times in multi-attribute decisions*. Talk presented at the 26th Subjective Probability, Utility, and Decision Making Conference (SPUDM).
Haifa, Israel.

Scharf, S. E., Jekel, M. & Bröder, A. (2017). *Model-based prediction of information search times in multi-attribute decisions*. Poster presented at the 59th Tagung experimentell arbeitender Dresden, Germany.

WORKSHOPS & SUMMER SCHOOLS

2022 | 1st Network Meeting "Multilevel Modelling in Method and Applied Research"
Presentation: Coherence and option attractiveness influences on attention allocation in multi-cue decision tasks
Zürich, Switzerland.

2018 | 5th Summer School on Computational Modeling
Poster: Modelling Coherence-Based Stopping of Search
Couches, France.

2018 | 11th Annual JDM Workshop for Early-Career Researchers
Presentation: Testing process assumptions of the new integrated coherence-based decisions and search model
University of Konstanz, Konstanz, Germany.

2017 | 6th A-Dok Doctoral Workshop
Presentation: Influences of information presentation on automatic decision-making: Söllner, Bröder, & Hilbig (2013) revisited
University of Ulm, Germany.

2017 | PhD course: Eye tracking in Desktop, Natural and Virtual Environments
Poster: Influences of information presentation on automatic decision-making: Söllner, Bröder, & Hilbig (2013) revisited
Karlsruhe Institute of Technology, Karlsruhe, Germany.

2017 | 10th Annual JDM Workshop for Early-Career Researchers
Presentation: Influences of information presentation on automatic decision-making: Söllner, Bröder, & Hilbig (2013) revisited
Max-Planck-Institut, Bonn, Germany.

2016 | 9th Annual JDM Workshop for Early-Career Researchers
Presentation: Model-based prediction of information search times in multi-attribute decisions
University of Basel, Switzerland.

TEACHING

Spring 2021, Fall 2021, 2022 (in person/online) | Research Methods: Creating Experiments with lab.js
Seminar & Methods Course; Level: M.Sc.
University of Mannheim

Spring 2018, 2020 - 2022 (in person/online) | Research Methods: Empirical Research On Decision Processes
Seminar & Methods Course; Level: B.Sc.
University of Mannheim

Fall 2017, 2020 - 2022 (in person/online) | General Psychology: Learning and Motivation
Seminar; Level: B.Sc.
University of Mannheim

UNIVERSITY SERVICE

2019-2021 | Elected Member of Senate (University of Mannheim)
Representation of Ph.D. students' interests
University of Mannheim

2017-2019 | Elected Vice Chair of "Promovierendenkonvent"
Representation of Ph.D. students' interests
Faculty of Social Sciences, University of Mannheim

2016-2019 | Elected Student Representative
Center for Doctoral Studies in Social and Behavioral Sciences (CDSS), University of Mannheim

SCHOLARSHIPS & AWARDS

2021 | Bojanovsky Prize
from Prof. Dr. Anna und Prof. Dr. Jrg Jiri Bojanovsky-Stiftung
together with Dr. Liliane Wulff
for *Unpacking Stereotype Influences on Source-Monitoring Processes: What Mouse Tracking Can Tell Us* in Journal of Experimental Social Psychology

2021 | Teaching Award, best seminar
from the student council for Psychology, University of Mannheim
for the seminar *Ausgewählte Probleme der Allgemeinen Psychologie II: Lernen & Motivation*

2018 | Teaching Award, best seminar
from the student council for Psychology, University of Mannheim
for the seminar *Ausgewählte Probleme der Allgemeinen Psychologie II: Lernen & Motivation*

2018 | TEAP Poster Award, 1st place
from the section *General Psychology* of the German Psychological Society
for the poster *Information Search in Every-Day Decisions: The Generalizability of the Attraction Search Effect*

2017 | Scholarship for attending the 26th SPUDM Conference in Haifa, Israel
from the German Academic Exchange Service (DAAD)

2017 | Scientific Speed Dating Award, 1st place
from the Graduate School of Economic and Social Sciences (GESS), Mannheim
for the project "How Voters Decide on How To Decide: Decision Making and Information Search Processes in the Political Domain"
together with Konstantin Gavras

2016/17 | Twelve-month full-study scholarship
University of Mannheim
Graduate School of Economic and Social Sciences (GESS)

MEMBERSHIPS **since 2021** | Society for Mathematical Psychology

since 2018 | German Society for Psychology (DGPs)

since 2017 | European Association for Decision Making (EADM)

PROGRAMMING **Statistics** | R/RStudio, JASP, SPSS

& COMPUTER

LITERACY **Experimentation** | OpenSesame (Python-based), lab.js (Javascript-based)

Text Processing | L^AT_EX, RMarkdown