

SIMON STEPHAN

PERSONAL DATA

DATE OF BIRTH: 31.01.1990, Kassel, Germany
WORK ADDRESS: Department of Psychology, University of Göttingen, Gosslerstr. 14, 37073 Göttingen, Germany
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WORK EXPERIENCE/ POSITIONS

- 2019 - POSTDOCTORAL ASSOCIATE, Department of Cognition and Decision Making, PI: Prof. Dr. Michael R. Waldmann, University of Göttingen
- 2015 – 2019 PHD STUDENT (PSYCHOLOGY) in the Program: “Behavior and Cognition”, University of Göttingen
- since 2014 RESEARCH ASSISTANT, Department of Cognition and Decision Making, University of Göttingen
- 2010 – 2014 STUDENT RESEARCH ASSISTANT, Department of Psychology, University of Göttingen

EDUCATION

- 2015 – 2019 DOCTORATE DEGREE, Dr. rer. nat. (summa cum laude)
University of Göttingen, Program: Behavior and Cognition
Title: “Answering Causal Queries About Singular Cases – An Evaluation of a New Computational Model”, Supervisor: Prof. Dr. Michael R. Waldmann
- 2012 – 2014 MASTER OF SCIENCE IN PSYCHOLOGY (with distinction)
University of Göttingen
- 2009 – 2012 BACHELOR OF SCIENCE IN PSYCHOLOGY (with distinction)
University of Göttingen
- 2002 – 2009 ABITUR (EQVL. A-LEVELS)
Grotefend-Gymnasium Münden, Hann. Münden

AWARDS & SCHOLARSHIPS/GRANTS

- October 2017 DFG Grant, value: 212,768.00€ Project: “Answering causal queries about singular cases” (The official holder of this grant is Michael R. Waldmann)
- July 2017 Computational Modeling Prize in High-level Cognition Sponsored by the Cognitive Science Society for the best full paper submissions that involve

computational cognitive modeling.

- 2016 – 2018 Leibniz-ScienceCampus Grant, value: 9,552.80€ Project: “The relationship between causal and moral judgments”
- 2015 – 2017 Leibniz-ScienceCampus Grant, value: 7,272.40€ Project: “The role of intentions in children’s and adult’s causal ascriptions”
- 2011 – 2012 e-fellows.net Scholarship

PUBLICATIONS

An online version of the publication list including links to PDFs and other publication-related materials can be found at: <https://www.simonstephan.com/#publications>.

1. Stephan, S. (2023). Revisiting the narrow latent scope bias in explanatory reasoning. *Cognition*, 241, 105630.
2. Stephan, S., Engelmann, N., & Waldmann, M. R. (2023). The perceived dilution of causal strength. *Cognitive Psychology*, 140, 101540.
3. Stephan, S., & Waldmann, M. R. (2022). The interplay between covariation, temporal, and mechanism information in singular causation judgments. In A. Wiegmann, & P. Willemsen (Eds.), *Advances in Experimental Philosophy of Causation*. London, UK: Bloomsbury Press.
4. Stephan, S., & Waldmann, M. R. (2022). The role of mechanism knowledge in singular causation judgments. *Cognition*, 218, 104924.
5. Skovgaard-Olsen, N., Stephan, S., & Waldmann, M. R. (2021). Conditionals and the hierarchy of causal queries. *Journal of Experimental Psychology: General*, 150, 2472–2505.
6. Gerstenberg, T., & Stephan, S. (2021). A counterfactual simulation model of causation by omission. *Cognition*, 216, 104842.
7. Stephan, S., Placi, S., & Waldmann, M. R. (2021). Evaluating general versus singular causal prevention. In T. Fitch, C. Lamm, H. Leder, & K. Tessmar (Eds.), *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
8. Stephan, S., Tentori, K., Pighin, S. & Waldmann, M. R. (2021). Interpolating causal mechanisms: The paradox of knowing more. *Journal of Experimental Psychology: General*, 150(8), 1500-1527. <https://doi.org/10.1037/xge0001016>
9. Stephan, S., & Waldmann, M. R. (2020). Causal scope and causal strength: The number of potential effects of a cause influences causal strength estimates. In S. Denison., M. Mack, Y. Xu, & B.C. Armstrong (Eds.), *Proceedings of the 42th Annual Conference of the Cognitive Science Society* (pp. 3426 - 3432). Austin, TX: Cognitive Science Society.
10. Stephan, S., & Waldmann, M. R. (2020). On causal claims, contingencies, and inference: How causal terminology affects what we think about the strength of causal links. In S. Denison., M. Mack, Y. Xu, & B.C. Armstrong (Eds.), *Proceedings of the 42th Annual Conference of the Cognitive Science Society* (pp. 3419 - 3425). Austin, TX: Cognitive Science Society.

11. Stephan, S., Mayrhofer, R., & Waldmann, M. R. (2020). Time and singular causation: A computational model. *Cognitive Science*, 44, e12871.
12. Stephan, S., Mayrhofer, R., & Waldmann, M. R. (2018). Assessing singular causation: The role of causal latencies. In T.T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 1080-1085). Austin, TX: Cognitive Science Society.
13. Stephan, S., & Waldmann, M. R. (2018). Preemption in singular causation judgments: A computational model. *Topics in Cognitive Science*, 10, 242-257.
14. Stephan, S., & Waldmann, M. R. (2017). Preemption in Singular Causation Judgments: A Computational Model. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1126-1131). Austin, TX: Cognitive Science Society.
15. Stephan, S., Willemse, P., & Gerstenberg, T. (2017). Marbles in inaction: Counterfactual simulation and causation by omission. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. (pp. 1132-1137). Austin, TX: Cognitive Science Society.
16. Nagel, J., & Stephan, S. (2016). Explanations in causal chains: Selecting distal causes requires exportable mechanisms. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society* (pp. 806-812). Austin, TX: Cognitive Science Society.
17. Stephan, S., & Waldmann, M. R. (2016). Answering causal queries about singular cases. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society* (pp. 2795-2801). Austin, TX: Cognitive Science Society.
18. Nagel, J., & Stephan, S. (2015). Mediators or alternative explanations: Transitivity in human-mediated causal chains. In D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), *Proceedings of the 37th Annual Meeting of the Cognitive Science Society* (pp. 1691-1696). Austin, TX: Cognitive Science Society.

Forthcoming

19. Placi, S., Stephan, S., Waldmann, M. R., & Vallortigara, G. (under review). When Newton beats Euclid: intuitive physics underlies sensitivity to geometry. <https://doi.org/10.31234/osf.io/78syx>.
20. Nagel, J., Stephan, S., & Waldmann, M. R. (under review). Understanding causal devices: Nomological machines guide causal understanding.

CONFERENCES

- July 2022 Cognitive Science Conference (44th), Toronto, Canada [virtual] **Poster:** “The Perceived Dilution of Causal Strength”
- July 2022 SPP & ESPP, Milan, Italy **Poster:** “The Perceived Dilution of Causal Strength”
- July 2021 Cognitive Science Conference (43rd), Vienna, Austria [virtual] **Poster:** “Evaluating General vs. Singular Causal Prevention.”
- September 2019 ESPP Conference (27th), Athens, Greek **Talk:** “The Role of Effect and Sample Size in Causal Induction.”
- September 2019 EuroCogSci 2019, Bochum, Germany **Poster:** “The Role of Effect and Sample Size in Causal Induction.”
- June 2019 19th Summer Institute on Bounded Rationality, Berlin, Germany **Poster:** “Answering Causal Queries about Singular Cases: An Evaluation of a New Computational Model”
- July 2018 Cognitive Science Conference (40th), Madison, USA **Talk:** “Assessing Singular Causation: The Role of Causal Latencies”
- May 2018 International Meeting of the Psychonomic Society, Amsterdam, NL **Poster:** “Answering Singular Causation Queries: The Role of Temporal and Mechanistic Information”
- February 2018 Annual Meeting (7th) of the DFG Priority Program “New Frameworks of Rationality”
- August 2017 European Society for Philosophy and Psychology (ESPP) Conference, Hertfordshire, UK **Talk:** “Answering causal queries about singular cases”
- July 2017 Cognitive Science Conference (39th), London, UK **Talk:** “Preemption in singular causation judgments: A computational model”
- July 2017 Cognitive Science Conference (39th), London, UK **Talk:** “Marbles in in-action: Counterfactual simulation and causation by omission”
- March 2017 Annual Meeting (6th) of the DFG Priority Program “New Frameworks of Rationality” **Talk:** “Answering causal queries about singular cases”
- August 2016 Cognitive Science Conference (38th), Philadelphia, USA **Talk:** “Answering causal queries about singular cases”
- August 2016 Cognitive Science Conference (38th), Philadelphia, USA **Poster:** “Explanations in causal chains: Selecting distal causes requires exportable mechanisms” (presented by Jonas Nagel)
- July 2015 Cognitive Science Conference (37th), Pasadena, USA **Poster:** “Mediators or alternative explanations: Transitivity in human-mediated causal chains” (presented by Jonas Nagel)

TEACHING EXPERIENCE

Tutorials/ Seminars

- Winter 2022/23 **SEMINAR ON THE PRINCIPLES OF LEARNING AND BEHAVIOR**
 Part of the second year undergraduate psychology module "Allgemeine Psychologie II"
- Winter 2021/22 **SEMINAR IN "QUANTITATIVE METHODS I"**
 Part of the first year undergraduate psychology statistics class
- Winter 2020/21 **SEMINAR IN "QUANTITATIVE METHODS I"**
 Part of the first year undergraduate psychology statistics class
- Winter 2019/20 **SEMINAR IN "QUANTITATIVE METHODS I"**
 Part of the first year undergraduate psychology statistics class
- Winter 2016/17 **SEMINAR IN "QUANTITATIVE METHODS I"**
 Part of the first year undergraduate psychology statistics class
- Winter 2015/16 **SEMINAR IN "QUANTITATIVE METHODS I"**
 Part of the first year undergraduate psychology statistics class
- Winter 2014/15 **SEMINAR IN "QUANTITATIVE METHODS I"**
 Part of the first year undergraduate psychology statistics class
- Summer 2022 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class
- Summer 2021 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class
- Summer 2020 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class
- Summer 2019 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class
- Summer 2017 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class
- Summer 2016 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class
- Summer 2015 **SEMINAR IN "QUANTITATIVE METHODS II"**
 Part of the first year undergraduate psychology statistics class

see: <https://quantigoettingen.github.io/quantigoettingen/>

Supervision

- Summer term 2023 **SUPERVISION OF A BACHELOR THESIS**
on the narrow latent scope bias in explanatory reasoning.
Student: Julia Larysch (julia.larysch@stud.uni-goettingen.de)
- Summer term 2022 **SUPERVISION OF A BACHELOR THESIS**
on how causal stability and personal risk-aversion affect decision making.
Student: Ana Maria Bierbach
(anamaria.bierbach@stud.uni-goettingen.de)
- Summer term 2022 **SUPERVISION OF A MASTER THESIS**
on how causal stability affects individual and group-level decision making.
Student: Anja Sykulla (anja.sykulla@stud.uni-goettingen.de)
- Summer term 2021 **SUPERVISION OF A BACHELOR THESIS**
on how violations of the causal Markov assumption are influenced by knowledge about the underlying causal system and causal strength.
Student: Jule Tinke Ferchlandt (jule.ferchlandt@gmx.de)
- Summer term 2021 **SUPERVISION OF A BACHELOR THESIS**
on how violations of the causal Markov assumption are influenced by knowledge about the underlying causal system.
Student: Anna Kühne (anna.kue@web.de)
- Summer term 2021 **SUPERVISION OF A BACHELOR THESIS**
on how the dilution effect of causal strength is influenced by causal capacity manipulations.
Student: Pia Elisabeth Katharina Steinberg
(pia.steinberg01@stud.uni-goettingen.de)
- Summer term 2021 **SUPERVISION OF A BACHELOR THESIS**
on how the dilution effect of causal strength is influenced by a cause's valence.
Student: Gerson Döscher (gerson.doescher@stud.uni-goettingen.de)
- Summer term 2021 **(Co-) SUPERVISION OF A MASTER THESIS**
on maintaining causes in feedback-loop structures.
Student: Mia Bensberg (mia.bensberg@stud.uni-goettingen.de)
- Summer term 2021 **(Co-) SUPERVISION OF A MASTER THESIS**
on maintaining causes in feedback-loop structures.
Student: Julia Schwerdt (julia.schwerdt@stud.uni-goettingen.de)

- Summer term 2020 (Co-) SUPERVISION OF A MASTER THESIS
on the difference between “triggering” and “maintaining” causes.
Student: Emily Alice Preuß (emilyalice.preuss@stud.uni-goettingen.de)
- Summer term 2020 SUPERVISION OF A BACHELOR THESIS
on the interpolation of causal chains.
Student: Naïma Sita Walter (naimasita.walter@gmail.com)
- Winter term 2018/19 SUPERVISION OF A BACHELOR THESIS
on interpolation vs. lengthening of causal chains.
Student: Melis Akil (melis.izmir@yahoo.de)
- Summer term 2018 SUPERVISION OF A BACHELOR THESIS
on the role of category levels in general and singular causation judgments.
Student: Jannik Reddehase (jannik.reddehase@stud.uni-goettingen.de)
- Summer term 2018 SUPERVISION OF A BACHELOR THESIS
on the influence of statistical norms on causal selection.
Student: Jannis Blümer (jannis.bluemer@gmail.com)
- Summer term 2017 SUPERVISION OF A BACHELOR THESIS
on preemption in singular causation judgments
Student: Julian Minke Wasmuth (konstantin.serwazi@web.de)
- Winter term 2016/17 SUPERVISION OF A BACHELOR THESIS
on causal reasoning about double prevention
Student: Jannik Baum (jannik.baum@gmx.net)

REVIEWS

- Cognitive Science Conference Proceedings: IIII IIII IIII II
- Cognition: IIII II
- Journal of Experimental Psychology – General: I
- Journal of Experimental Psychology: Learning, Memory, and Cognition I
- Journal of Experimental Social Psychology: III
- Memory & Cognition: I
- Philosophical Psychology: III
- Psychological Review (as co-reviewer): I
- Cognitive Psychology: I
- Cognitive Science: IIII
- Journal of Cognitive Psychology: IIII I

- Plos One: III
- Computational Brain & Behavior III

see: <https://www.webofscience.com/wos/author/record/AAA-7836-2022>

SKILLS

- Language: German (native), English (fluent), French (basic), Italian (basic)
- Software: R, HTML5, JavaScript, Animate, L^AT_EX, Photoshop, Illustrator, Flash
- Interests: Philosophy, Politics, Literature, Music, Guitar, Blues Harp, Football, Badminton, Traveling

REFERENCES

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University of Göttingen,
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Prof. Dr. Tobias Gerstenberg,
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University of Göttingen,
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