

Stanford



Tobias Gerstenberg

Assistant Professor of Psychology

 Curriculum Vitae available Online

CONTACT INFORMATION

• Alternate Contact

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Bio

ACADEMIC APPOINTMENTS

- Assistant Professor, Psychology
- Member, Bio-X
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor of Cognitive Psychology, Stanford University, (2018- present)
- Postdoctoral Associate, Massachusetts Institute of Technology, (2014-2018)
- Postdoctoral Fellow, Massachusetts Institute of Technology, (2013-2014)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

PROFESSIONAL EDUCATION

- PhD, University College London , Cognitive Science (2013)
- MSc, University College London , Cognitive and Decision Sciences (2008)
- Vordiplom, Humboldt University Berlin , Psychology (2007)

LINKS

- Causality in Cognition Lab: <http://cicl.stanford.edu/>

Teaching

COURSES

2021-22

- Advanced Research: PSYCH 197 (Aut)

- Senior Honors Research: PSYCH 198 (Win, Spr)
- Statistical Methods for Behavioral and Social Sciences: PSYCH 252 (Win)

2020-21

- Statistical Methods for Behavioral and Social Sciences: PSYCH 252 (Win)
- What makes a good explanation? Psychological and philosophical perspectives: PHIL 350, PSYCH 293 (Aut)

2019-20

- Research Methods in Cognition & Development: PSYCH 187 (Spr)
- Statistical Methods for Behavioral and Social Sciences: PSYCH 252 (Win)

2018-19

- Causal Cognition: PSYCH 291 (Spr)
- Statistical Methods for Behavioral and Social Sciences: PSYCH 252 (Win)

STANFORD ADVISEES

Marianna Zhang

Doctoral Dissertation Reader (AC)

Marianna Zhang

Postdoctoral Faculty Sponsor

Vael Gates

Publications

PUBLICATIONS

- **Moral dynamics: Grounding moral judgment in intuitive physics and intuitive psychology.** *Cognition*
Sosa, F. A., Ullman, T., Tenenbaum, J. B., Gershman, S. J., Gerstenberg, T.
2021; 217: 104890
- **A counterfactual simulation model of causation by omission.** *Cognition*
Gerstenberg, T., Stephan, S.
2021; 216: 104842
- **Predicting responsibility judgments from dispositional inferences and causal attributions.** *Cognitive psychology*
Langenhoff, A. F., Wiegmann, A., Halpern, J. Y., Tenenbaum, J. B., Gerstenberg, T.
2021; 129: 101412
- **A counterfactual simulation model of causal judgments for physical events.** *Psychological review*
Gerstenberg, T., Goodman, N. D., Lagnado, D. A., Tenenbaum, J. B.
2021
- **The Trajectory of Counterfactual Simulation in Development** *DEVELOPMENTAL PSYCHOLOGY*
Kominsky, J. F., Gerstenberg, T., Pelz, M., Sheskin, M., Singmann, H., Schulz, L., Keil, F. C.
2021; 57 (2): 253–68
- **Expectations Affect Physical Causation Judgments** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL*
Gerstenberg, T., Icard, T.
2020; 149 (3): 599–607
- **Moral Values Reveal the Causality Implicit in Verb Meaning.** *Cognitive science*
Niemi, L. n., Hartshorne, J. n., Gerstenberg, T. n., Stanley, M. n., Young, L. n.
2020; 44 (6): e12838

- **Causal Responsibility and Robust Causation.** *Frontiers in psychology*
Grinfeld, G., Lagnado, D., Gerstenberg, T., Woodward, J. F., Usher, M.
2020; 11: 1069
- **Quantitative causal selection patterns in token causation.** *PloS one*
Morris, A. n., Phillips, J. n., Gerstenberg, T. n., Cushman, F. n.
2019; 14 (8): e0219704
- **Time in Causal Structure Learning** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-LEARNING MEMORY AND COGNITION*
Bramley, N. R., Gerstenberg, T., Mayrhofer, R., Lagnado, D. A.
2018; 44 (12): 1880–1910
- **What's fair? How children assign reward to members of teams with differing causal structures** *COGNITION*
Koskuba, K., Gerstenberg, T., Gordon, H., Lagnado, D., Schlottmann, A.
2018; 177: 234–48
- **Lucky or clever? From expectations to responsibility judgments** *COGNITION*
Gerstenberg, T., Ullman, T. D., Nagel, J., Kleiman-Weiner, M., Lagnado, D. A., Tenenbaum, J. B.
2018; 177: 122–41
- **Eye-Tracking Causality.** *Psychological science*
Gerstenberg, T. n., Peterson, M. F., Goodman, N. D., Lagnado, D. A., Tenenbaum, J. B.
2017; 28 (12): 1731–44
- **Plans, Habits, and Theory of Mind.** *PloS one*
Gershman, S. J., Gerstenberg, T. n., Baker, C. L., Cushman, F. A.
2016; 11 (9): e0162246
- **Causal Conceptions in Social Explanation and Moral Evaluation: A Historical Tour** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*
Alicke, M. D., Mandel, D. R., Hilton, D. J., Gerstenberg, T., Lagnado, D. A.
2015; 10 (6): 790–812
- **Causal superseding** *COGNITION*
Kominsky, J. F., Phillips, J., Gerstenberg, T., Lagnado, D., Knobe, J.
2015; 137: 196–209
- **Concepts in a Probabilistic Language of Thought** *CONCEPTUAL MIND: NEW DIRECTIONS IN THE STUDY OF CONCEPTS*
Goodman, N. D., Tenenbaum, J. B., Gerstenberg, T., Margolis, E., Laurence, S.
2015: 623–53
- **Causal Responsibility and Counterfactuals** *COGNITIVE SCIENCE*
Lagnado, D. A., Gerstenberg, T., Zultan, R.
2013; 37 (6): 1036–73
- **When contributions make a difference: Explaining order effects in responsibility attribution** *PSYCHONOMIC BULLETIN & REVIEW*
Gerstenberg, T., Lagnado, D. A.
2012; 19 (4): 729–36
- **Spreading the blame: The allocation of responsibility amongst multiple agents** *COGNITION*
Gerstenberg, T., Lagnado, D. A.
2010; 115 (1): 166–71