

Stanford



Tobias Gerstenberg

Assistant Professor of Psychology

 Curriculum Vitae available Online

CONTACT INFORMATION

- **Alternate Contact**

Reneé Rittler - Administrative Services Manager

Email rittler@stanford.edu

Tel 6507237431

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

2023-24

- Senior Honors Research: PSYCH 198 (Spr)

2022-23

- Statistical Methods for Behavioral and Social Sciences: COMM 352, PSYCH 252 (Win)

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)

STANFORD ADVISEES

Marianna Zhang

Doctoral Dissertation Reader (AC)

Effie Li, Marianna Zhang

Postdoctoral Faculty Sponsor

Erik Brockbank, Philipp Fraenken, Lara Kirfel

Doctoral Dissertation Advisor (AC)

Ari Beller, David Rose, Sarah Wu

Postdoctoral Research Mentor

Lara Kirfel

Publications

PUBLICATIONS

- **Making a positive difference: Criticality in groups.** *Cognition*
Gerstenberg, T., Lagnado, D. A., Zultan, R.
2023; 238: 105499
- **Mental jenga: A counterfactual simulation model of causal judgments about physical support.** *Journal of experimental psychology. General*
Zhou, L., Smith, K. A., Tenenbaum, J. B., Gerstenberg, T.
2023
- **Realism of Visual, Auditory, and Haptic Cues in Phenomenal Causality**
Chase, E. Z., Gerstenberg, T., Follmer, S., Bello, F., Choi, S., Kuchenbecker, K. J., MacLean, K.
IEEE.2023: 306-312
- **Active causal structure learning in continuous time.** *Cognitive psychology*
Gong, T., Gerstenberg, T., Mayrhofer, R., Bramley, N. R.
2022; 140: 101542
- **What would have happened? Counterfactuals, hypotheticals and causal judgements.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Gerstenberg, T.
2022; 377 (1866): 20210339
- **Inference From Explanation** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL*
Kirfel, L., Icard, T., Gerstenberg, T.
2021

- **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
- **A Causal Feeling: How Kinesthetic Haptics Affects Causal Perception**
Chase, E. Z., Wolff, P., Gerstenberg, T., Follmer, S., IEEE
IEEE.2021: 347
- **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., Peterson, M. F., Goodman, N. D., Lagnado, D. A., Tenenbaum, J. B.
2017; 28 (12): 1731-1744
- **Plans, Habits, and Theory of Mind.** *PloS one*
Gershman, S. J., Gerstenberg, T., 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