

Stanford



Thomas Icard

Clarence Irving Lewis Professor of Philosophy and Professor, by courtesy, of Computer Science

Bio

ACADEMIC APPOINTMENTS

- Professor, Philosophy
- Professor (By courtesy), Computer Science
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)

HONORS AND AWARDS

- Dean's Award for Achievements in Teaching, School of Humanities and Sciences (2019-2020)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

LINKS

- Professor Icard - Department of Philosophy: <https://philosophy.stanford.edu/people/thomas-icard>

Teaching

COURSES

2025-26

- Animal Cognition: PHIL 12N, SYMSYS 12N (Aut)
- Mathematical Logic: PHIL 150, PHIL 250 (Aut)
- Mechanistic Interpretability: CS 221M (Spr)
- Metalogic: PHIL 151, PHIL 251 (Win)
- Philosophy of Cognitive Science and Artificial Intelligence: PHIL 366C (Win)

2024-25

- Animal Cognition: OSPKYOTO 77 (Aut)
- Computability and Logic: PHIL 152, PHIL 252 (Spr)
- Logic Spring Seminar: PHIL 359 (Spr)
- Minds and Machines: CS 24, LINGUIST 35, PHIL 99, PSYCH 35, SYMSYS 1, SYMSYS 200 (Spr)

2023-24

- Citizenship in the 21st Century: COLLEGE 102 (Win)
- Mathematical Logic: PHIL 150, PHIL 250 (Aut)

- Metalogic: PHIL 151, PHIL 251 (Win)
- Seminar on Logic & Formal Philosophy: CS 353, PHIL 391 (Aut, Win)

2022-23

- Computability and Logic: PHIL 152, PHIL 252 (Spr)
- Metalogic: PHIL 151, PHIL 251 (Win)
- Minds and Machines: CS 24, LINGUIST 35, PHIL 99, PSYCH 35, SYMSYS 1, SYMSYS 200 (Aut)
- Topics in Philosophy of Action: Decision Theory and Planning Agency: PHIL 387 (Spr)

STANFORD ADVISEES

Puyin Li, Junyi Tao

Doctoral Dissertation Reader (AC)

Max Forster, Zachary Hall, Aileen Luo, Soham Shiva, Juanhe (TJ) Tan

Postdoctoral Faculty Sponsor

Gaia Belardinelli, Duligur Ibeling, Can Konuk

Doctoral Dissertation Advisor (AC)

David Gottlieb, Jacqueline Harding, Bendix Kemmann, Alexander Pereira

Master's Program Advisor

Basel AlKanjo, Matias Benitez, Justin Choo, Andrew Chung, Advit Deepak, Yi Du, Hangoo Kang, Yuchen Li, Jennifer Lin, Melissa Liu, Kaden Nguyen, Stephanie Tamayo, Ben Viggiano

Publications

PUBLICATIONS

- **A Simple Logic of Concepts** *JOURNAL OF PHILOSOPHICAL LOGIC*
Icard, T. F., Moss, L. S.
2022
- **An interaction effect of norm violations on causal judgment.** *Cognition*
Gill, M., Kominsky, J. F., Icard, T. F., Knobe, J.
2022; 228: 105183
- **Causal Distillation for Language Models**
Wu, Z., Geiger, A., Rozner, J., Kreiss, E., Lu, H., Icard, T., Potts, C., Goodman, N., *ASSOC COMPUTAT LINGUIST ASSOC COMPUTATIONAL LINGUISTICS-ACL.2022*: 4288-4295
- **Inference From Explanation** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL*
Kirfel, L., Icard, T., Gerstenberg, T.
2021
- **Expectations Affect Physical Causation Judgments** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL*
Gerstenberg, T., Icard, T.
2020; 149 (3): 599–607
- **Why Be Random?** *Mind*
Icard, T.
2020
- **On Open-Universe Causal Reasoning**
Ibeling, D., Icard, T.

edited by Adams, R. P., Gogate
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2020: 1233-1243

- **Probabilistic Reasoning Across the Causal Hierarchy**
Ibeling, D., Icard, T., Assoc Advancement Artificial Intelligence
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2020: 10170-10177
- **Calibrating Generative Models: The Probabilistic Chomsky-Schützenberger Hierarchy** *Journal of Mathematical Psychology*
Icard, T.
2020; 95
- **Bayes, Bounds, and Rational Analysis** *PHILOSOPHY OF SCIENCE*
Icard, T. F.
2018; 85 (1): 79–101
- **Inferring probability comparisons** *MATHEMATICAL SOCIAL SCIENCES*
Harrison-Trainor, M., Holliday, W. H., Icard, T. F.
2018; 91: 62–70
- **Normality and actual causal strength.** *Cognition*
Icard, T. F., Kominsky, J. F., Knobe, J.
2017; 161: 80-93
- **Indicative Conditionals and Dynamic Epistemic Logic** *ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE*
Holliday, W. H., Icard, T. F.
2017: 337–51
- **Pragmatic Considerations on Comparative Probability** *PHILOSOPHY OF SCIENCE*
Icard, T. F.
2016; 83 (3): 348-370
- **A note on cancellation axioms for comparative probability** *THEORY AND DECISION*
Harrison-Trainor, M., Holliday, W. H., Icard, T. F.
2016; 80 (1): 159-166
- **Iterating semantic automata** *LINGUISTICS AND PHILOSOPHY*
Steinert-Threlkeld, S., Icard, T. F.
2013; 36 (2): 151-173
- **Inclusion and Exclusion in Natural Language** *STUDIA LOGICA*
Icard, T. F.
2012; 100 (4): 705-725
- **Provability and Interpretability Logics with Restricted Realizations** *NOTRE DAME JOURNAL OF FORMAL LOGIC*
Icard, T. F., Joosten, J. J.
2012; 53 (2): 133-154
- **A Topological Study of the Closed Fragment of GLP** *JOURNAL OF LOGIC AND COMPUTATION*
Icard, T.
2011; 21 (4): 683-696