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

2026-27

- Mechanistic Interpretability: CS 221M (Spr)

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)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Max Forster, Jing Huang, Ahmad Jabbar, Aileen Luo, Soham Shiva, Juanhe (TJ) Tan

Postdoctoral Faculty Sponsor

Can Konuk

Doctoral Dissertation Advisor (AC)

Jacqueline Harding, Bendix Kemmann, Alexander Pereira

Master's Program Advisor

Basel AlKanjo, Anuva Banwasi, Yi Du, Hangoo Kang, Sri Kundurthy, Yuchen Li, Jennifer Lin, Melissa Liu, Kaden Nguyen, Michael Reller, Purvi Sehgal, Aidan Whitedeer, Maxine Wu

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