

Isaac Davis

Department of Psychology
100 College Street
New Haven, CT 06510

E-mail: isaac.davis@yale.edu
Cell: 908-216-5974
www.isaacmdavis.com

EMPLOYMENT AND EDUCATION

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|---|---------------|
| Yale University, <i>New Haven, CT</i> Lecturer in Cognitive Science | 2022- Present |
| Yale University, <i>New Haven, CT</i> Postdoctoral associate, Department of Psychology Advisors: Yarrow Dunham & Julian Jara-Ettinger | 2020- 2022 |
| Carnegie Mellon University, <i>Pittsburgh, PA</i> Ph.D in Logic, Computation, & Methodology (2020) M.S. in Logic, Computation, & Methodology (2017) Advisor: David Danks | 2014- 2020 |
| Federal Reserve Bank of New York, <i>New York, NY</i> Research Associate, Money and Payment Systems research group | 2011- 2014 |
| University of Chicago, <i>Chicago, IL</i> Bachelor of Arts in Mathematics & Economics | 2007- 2011 |

PUBLICATIONS

- (In prep) **Davis, I.**, & Jara-Ettinger, J., & Dunham, Y. Inferring the internal structure of social collectives.
- (In prep) Ongchoco, J., **Davis, I.**, Jara-Ettinger, J., Paul, L.A. A computational framework for formalizing epistemically transformative experiences.
- (Under review) Asaba, M., **Davis, I.**,¹ Leonard, J., & Jara-Ettinger, J. Social bias detection as mental state inference.
- (In revision) **Davis, I.** Rational representations of uncertainty: a pluralistic approach to bounded rationality.
- (2023) **Davis, I.**, Carlson, R., Dunham, Y., & Jara-Ettinger, J. Identifying social partners through indirect prosociality: a computational account. *Cognition*, 240, 105580.
- (2023) Asaba, M., **Davis, I.**, Leonard, J. A., & Jara-Ettinger, J. Detecting social biases via mental state inference. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.
- (2023) Richardson, E., **Davis, I.**, & Keil, F. Agenda setting and The Emperor's New Clothes: people infer that letting powerful agents make their opinion known early can trigger information cascades and pluralistic ignorance. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.

¹Joint first-authorship

- (2023) Danks, D., & **Davis, I.** (2023). Causal inference in cognitive neuroscience. *Wiley Interdisciplinary Reviews: Cognitive Science*, e1650.
- (2022) **Davis, I.**, Dunham, Y., & Jara-Ettinger, J. Inferring the internal structure of social collectives. *Proceedings of the 44th annual conference of the Cognitive Science Society*
- (2022) **Davis, I.**, & Jara-Ettinger, J. Hierarchical task knowledge constrains and simplifies action understanding. *Proceedings of the 44th annual conference of the Cognitive Science Society*
- (2021) **Davis, I.**, Carlson, R., Dunham, Y., & Jara-Ettinger, J. Reasoning about social attitudes with uncertain beliefs. *Proceedings of the 43rd annual conference of the Cognitive Science Society*
- (2021) Aboody, R., **Davis, I.**, Dunham, Y., & Jara-Ettinger, J. I can tell you know a lot, although I'm not sure what: Modeling broad epistemic inference from minimal action. *Proceedings of the 43rd annual conference of the Cognitive Science Society*
- (2021) **Davis, I.** How do we know what babies know? The limits of inferring cognitive representations from visual fixation data. *Philosophical Psychology* 34(2), 1-28.
- (2020) **Davis, I.** A Framework for Pragmatic Reliability. *Philosophy of Science* 87(4), 704-726.
- (2017) **Davis, I.** Understanding the Role of Perception in the Evolution of Human Language. *Proceedings of the 39th annual meeting of the Cognitive Science Society*.
- (2016) McCool, J., & **Davis, I.** Almost Fair: Conjoint Measurement Theory and Bargaining Solutions. *Proceedings of the 14th annual conference on Practical Applications of Agents and Multi-Agent Systems*
- (2014) Copeland, A.M., **Davis, I.**, & Martin, A. An Empirical Analysis of the GCF Repo Service. *Economic Policy Review*, 2: 25-37.

CONFERENCE PRESENTATIONS

- (2023) "Inferring the internal structure of social collectives." Full talk, 49th annual meeting of the Society for Philosophy and Psychology.
- (2022) "In defense of underdetermination." Poster presentation, 28th Biennial meeting of the Philosophy of Science Association.
- (2022) "Inferring the internal structure of social collectives." Full talk, CogSci 2022.
- (2022) "Hierarchical task knowledge constrains and simplifies action understanding." Flash Talk, CogSci 2022.
- (2021) "Reasoning about social attitudes with uncertain beliefs." Full talk, CogSci 2021
- (2020) "The testability of composite linking hypotheses." Poster presentation, 27th Biennial meeting of the Philosophy of Science Association.
- (2020) "The origins of mental attribution." Poster presentation, SPSP *Origins of the social mind* pre-conference.
- (2018) "Epistemic and Pragmatic Reliability in Economics." Poster presentation, PSA 2018.
- (2017) "Understanding the Role of Perception in the Evolution of Human Language." Poster presentation, CogSci 2017.
- (2016) "Fair Enough: Conjoint Measurement Theory and Score-Based Bargaining Solutions" (with Joe McCool). 9th annual workshop on Decisions, Games, and Logic (DGL). Department of Philosophy, University of Michigan Ann Arbor.

TEACHING EXPERIENCE

Instructor of Record: Yale University

CGSC 395: CogSci Junior Colloquium. Fall 2023

CGSC 491: CogSci Senior Seminar. Spring 2023

CGSC 395: CogSci Junior Colloquium. Fall 2022

Instructor of Record: Carnegie Mellon University

Phil 80-100: Introduction to Philosophy. Fall 2019

Phil 80-100: Introduction to Philosophy. Spring 2019

TA/Grader: Carnegie Mellon University

Phil 80-100: Introduction to Philosophy, Spring 2020 (Smith)

Phil 80-100: Introduction to Philosophy, Fall 2018 (Cullen)

Phil 80-150: Nature of Reason, Spring 2018 (Zhang)

Phil 80-100: Introduction to Philosophy, Fall 2017 (Kayani)

Phil 80-270: Philosophy of Mind, Fall 2016 (Wu)

Phil 80-381: Meaning in Language, Fall 2015 (Werner)

Phil 80-210: Logic & Proofs, Spring 2015 (Morris)

SERVICE

Ad Hoc reviewer for: (41st-45th) Annual meetings of the Cognitive Science Society, Journal of Teaching Philosophy, Journal of Experimental Child Psychology, Journal of Experimental Psychology General, Open Mind, Cognition, TICS

(2018) Search Committee, CMU Philosophy PhD Candidate Search

(2018) Search Committee, CMU Philosophy 2018 Job Search (assistant professor in philosophy)