

# Eyal Dechter

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## Current position

*Doctoral Student*, Department of Brain and Cognitive Sciences, MIT, Cambridge, MA. Supervisor: Professor Josh Tenenbaum.

## Areas of specialization

Cognitive Science; Machine Learning.

## Work experience

- 2012-2015 Advisor, Librato Metrics, San Francisco, CA.
- 2009-2011 Research Assistant, Department of Brain and Cognitive Sciences, Kanwisher Lab, MIT, Cambridge, MA. Supervisor: Professor Nancy Kanwisher.
- 2007-2008 Research Intern, Department of Theory of Computer Science, MIT, Cambridge, MA. Supervisor: Professor Scott Aaronson.
- 2006 Research Intern, Department of Material Sciences, Harvard, Cambridge, MA. Supervisor: Dean Venkata Narayanamurti.

## Education

- 2009 A.B. in Physics, Harvard College, Cambridge, MA.

## Grants, honors and awards

- 2011 National Science Foundation Graduate Research Fellow.

## Publications and talks

- 2016 **Dechter, E.** and Tenenbaum, J.B. Using the Language of Thought: the Infinite Symbolic Model. In prep.
- 2015 Rule, J., **Dechter, E.**, and Tenenbaum, J. B. Representing and Learning a Large System of Number Concepts with Latent Predicate Networks. In Proceedings of the 37th Annual Meeting of the Cognitive Science Society, 2015.
- Dechter, E.**, Rule, J., and Tenenbaum, J. B. Latent Predicate Networks: Concept Learning with Probabilistic Context-Sensitive Grammars. AAAI Spring Symposium Series, 2015.
- Ellis, K., **Dechter, E.**, and Tenenbaum, J. B. Dimensionality Reduction via Program Induction. In 2015 AAAI Spring Symposium Series.
- 2014 Lin, D., **Dechter, E.**, Ellis, K., Tenenbaum, J. B., and Muggleton, S. Bias reformulation for one-shot function induction. In ECAI 2014 - 21st European Conference on Artificial Intelligence, 2014.
- 2013 **E. Dechter.** Learning to ask relevant questions: inductive programming and conceptual development. Dagstuhl Seminar on Inductive Programming, 2013.
- K. Ellis, **E. Dechter**, R. P. Adams, and J. B. Tenenbaum. Learning graphical concepts. In Workshop on Constructive Machine Learning at NIPS, 2013.
- E. Dechter**, J. Malmaud, R. P. Adams, and J. B. Tenenbaum. Bootstrap learning via modular concept discovery. In F. Rossi, editor, IJCAI. IJCAI/AAAI, 2013.
- K. A. Smith, **E. Dechter**, J. B. Tenenbaum, and E. Vul. Physical predictions over time. In *Proceedings of the 35th Annual Meeting of the Cognitive Science Society*, 2013.
- 2010 Daniel D Dilks, **Eyal Dechter**, Christina Triantafyllou, Boris Keil, Lawrence L Wald, Matthew D Tisdall, Andre van der Kouwe, Bruce Fischl, Rebecca Saxe, and Nancy Kanwisher. No change in the size of the right fusiform face area between age five and adulthood. *Journal of Vision*, 10(7):493–493, 2010.

## Teaching

- 2015 Teaching Assisant, “Cognitive Processes,” 9.65, MIT.
- 2014 Teaching Assistant, “Cognitive Science,” 9.012, MIT.
- 2013 Teaching Assistant, “Advanced Machine Learning,” CS 281, Harvard University.

Teaching Assistant, “Computational Cognitive Science,” 9.66, MIT.

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