# 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

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.x

**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. Tenenebaum. 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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