

# Jessica Hamrick · Curriculum Vitae

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## EDUCATION

**University of California, Berkeley. Berkeley, CA**

Pursuing a Ph.D. in Psychology, August 2012 – present.

Advisor: Thomas L. Griffiths

**Massachusetts Institute of Technology. Cambridge, MA**

B.S. in Computer Science and Engineering, June 2012 (GPA: 4.4/5.0)

Academic Advisor: Gerald Jay Sussman

M.Eng. in Electrical Engineering and Computer Science, June 2012 (GPA: 5.0/5.0)

Thesis Advisor: Joshua B. Tenenbaum

### Graduate-Level Coursework

- 6.828 (MIT): operating systems
- 6.863 (MIT): natural language processing
- 6.882 (MIT): planning and decision making
- 6.945 (MIT): large-scale symbolic systems
- 9.915 (MIT): computational cognitive science
- CS 281 (Harvard): machine learning
- VS 265 (Berkeley): neural computation
- Psych 290H (Berkeley): communication, intentionality, and the origin of language

## ACADEMIC POSITIONS

**Graduate Researcher**

University of California, Berkeley (Advisor: Thomas L. Griffiths)

*August 2012 – present*

**Research Assistant**

**Undergraduate Researcher**

Massachusetts Institute of Technology (Advisor: Joshua B. Tenenbaum)

*June 2011 – July 2012*

*January 2009 – May 2011*

**Undergraduate Researcher**

Personal Robotics Group – MIT Media Lab (Advisor: Cynthia Breazeal)

*June 2008 – December 2009*

## FELLOWSHIPS AND GRANTS

- Berkeley Fellowship, University of California Berkeley (two years, 2012–2014), tuition and stipend.

## PUBLICATIONS

- Battaglia PW, Hamrick JB, Tenenbaum JB. Probabilistic simulation as the engine of intuitive physical inferences. Under review.
- Hamrick JB (2012). Physical Reasoning in Complex Scenes is Sensitive to Mass. Unpublished M.Eng. thesis, Massachusetts Institute of Technology, Cambridge, MA.
- Hamrick JB, Battaglia PW, Tenenbaum JB (2011). Internal physics models guide probabilistic judgments about object dynamics, *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*.

## CONFERENCE PRESENTATIONS

- Battaglia PW, Hamrick J, Tenenbaum JB (2012) Intuitive mechanics in visual reasoning about complex scenes with unknown forces, Poster presented by Peter Battaglia at Annual Meeting of the Vision Sciences Society 2012, Naples, FL, May 2012.
- Hamrick J, Battaglia PW, Tenenbaum JB (2012) Physics knowledge aids object perception in dynamic scenes, Poster presented by Jessica Hamrick at Annual Meeting of the Vision Sciences Society 2012, Naples, FL, May 2012.
- Hamrick JB, Battaglia PW, Tenenbaum JB (2011). Intuitive physics judgments guided by probabilistic dynamics model, Talk presented by Jessica Hamrick at the 33rd Annual Conference of the Cognitive Science Society 2011, Boston, MA, July 2011.

- Battaglia PW, Hamrick JB, Tenenbaum JB (2011). Intuitive physics judgments guided by probabilistic dynamics model, Poster presented by Peter Battaglia at the Annual Meeting of the Vision Sciences Society 2011, Naples, FL, May 2011.

## TEACHING

### Python for Computational Cognitive Science

*Summer 2012*

Co-instructor for a crash course in scientific Python for computational cognitive science at MIT.

### Boston Python Workshop

*May, July, and December 2011*

Teaching Python to women and their friends – see [http://openhatch.org/wiki/Boston\\_Python\\_Workshop](http://openhatch.org/wiki/Boston_Python_Workshop)

## SERVICE AND SOCIETIES

### Sigma Xi

*May 2011 – Present*

Junior Member of the Scientific Research Society

### MIT Student Information Processing Board

*September 2008 – Present*

Volunteer student computing group – see <http://sipb.mit.edu/>

- Chair, *February 2010 – February 2011*. While I was Chair, SIPB received the Karl Taylor Compton prize, MIT's most prestigious award given to students or student groups.
- Executive Committee, *February 2009 – February 2012*.
- Full Member, *February 2009 – June 2012*. As a SIPB member, I helped other students with computer problems and have worked on multiple service projects, including Gutenbach, MIT<sub>E</sub>X, Debathena (MIT's operating system), and Dodona. I also co-taught a class on the structure of the internet in January 2009.
- Associate Member, *June 2012 – present*.