

Mika Braginsky

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Education

June 2014 **Bachelor of Science in Computer Science & Engineering and Brain & Cognitive Sciences**, *Massachusetts Institute of Technology*, Cambridge, MA, 4.5/5.0.

Research Experience

Sep 2014 **Language and Cognition Lab**, *Department of Psychology, Stanford University*,
- present Research Assistant, Advisor: Mike Frank.

Working on a variety of research projects focused around analyzing and modeling children's vocabulary acquisition.

Sep 2013 **Computational Cognitive Science Group**, *Massachusetts Institute of Technology*,

- Aug 2014 Undergraduate Researcher, Advisor: Joshua Tenenbaum.

Developed and implemented a model of early cross-situational word learning using a framework of Bayesian inference.

June 2013 **Research and Development Team**, *Basis Technology*, R&D Intern.

- Aug 2013 Worked on error analysis and software development to help improve a statistical model for named-entity resolution and entity linking.

Apr 2013 **Psycholinguistics Laboratory Final Project**, Professor: Ted Gibson.

- May 2013 Designed and ran an online experiment examining whether people tend to pick shorter word forms in more predictive global and local contexts.

June 2012 **Natural Language & Computer Representation of Knowledge Final Project**,

- Aug 2012 Professor: Robert Berwick.

Implemented a system for solving SAT analogy problems in cognitively-motivated way.

June 2012 **Bioengineering Systems and Technologies Group**, *MIT Lincoln Laboratory*,

- Aug 2012 Undergraduate Researcher, Advisor: Thomas Quatieri.

Developed a psycholinguistic behavioral experiment for investigating the connection between language and motor control.

Sep 2010 **Quantitative Research in Linguistics Group**, *Massachusetts Institute of Technology*,

- Jan 2011 Undergraduate Researcher, Advisor: Peter Graff.

Designed an online experiment for comparing the learnability of different word order patterns.

Coursework

Computer Science Practical Natural Language Processing (G), Natural Language and the Computer Representation of Knowledge (G), Society of Mind (G), Artificial Intelligence, Introduction to Inference, Design and Analysis of Algorithms, Computer Systems Engineering, Elements of Software Construction

Cognitive Science & Linguistics Topics in Language Acquisition (G), Computational Cognitive Science, Laboratory in Psycholinguistics, Semantics and Pragmatics, Phonology, Music Cognition, What Is Intelligence? (G), Philosophical Issues in Brain Science

Mathematics Probability and Random Variables, Linear Algebra, Differential Equations, Mathematics for Computer Science

Teaching Experience

- Sep 2011 **Laboratory Assistant**, *Introduction to Electrical Engineering and Computer Science*.
- Dec 2011 Assisted the course staff with lab preparation; guided the ~75 students during lab session.
- Jan 2010 **Afterschool Class Teacher**, *Jewish Community Day School*.
- Dec 2011 Taught mathematical thinking through logic puzzles and games to elementary and middle school students.
- Sep 2008 **Head Teaching Assistant**, *Honors Chemistry, Newton South High School*.
- June 2010 Coordinated the ~10 other TAs in grading, tutoring, and laboratory preparation.

Computer Skills

Languages Python, Java, JavaScript, Matlab, R, Scheme
Tools UNIX, Git, Subversion, L^AT_EX, HTML, Eclipse, Excel/Office

Languages

Native English, Russian
Conversational Hebrew

Leadership Positions

- May 2013 **MIT Assassins' Guild**, President.
- Aug 2014
- Nov 2012 **Random Hall**, Vice President and Treasurer.
- Nov 2013
- May 2012 **MIT Science Fiction Society**, Treasurer.
- May 2013
- May 2012 **MIT Brain and Cognitive Sciences Society**, Faculty Liaison.
- May 2013