

JONATHAN GORDON

My research is on artificial intelligence: I study techniques to automatically learn common-sense knowledge from text and refine it to be suitable for reasoning.

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Dept of Computer Science
University of Rochester
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Rochester, NY 14627

EDUCATION

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|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 2009–present | <i>University of Rochester</i>
PhD candidate, Computer Science.
Advisor: Lenhart Schubert.
Committee: James Allen, Daniel Gildea, Gregory Carlson. | Rochester, NY |
| 2007–2009 | <i>University of Rochester</i>
MS, Computer Science.
Advisor: Lenhart Schubert. | Rochester, NY |
| 2003–2007 | <i>Vassar College</i>
BA, Computer Science.
Advisor: Nancy Ide. | Poughkeepsie, NY |

RESEARCH EXPERIENCE

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| 2007–present | <i>PhD Program</i>
Ongoing research on acquiring general world knowledge (common sense) that is high-quality, large-scale, and in a form to support inference. This includes learning from noisy text such as weblogs and Wikipedia, efficiently evaluating knowledge bases through crowd-sourcing, and working to automatically filter and strengthen the weak knowledge learned from text. | University of Rochester |
| Summer 2008 | <i>Institute for Creative Technologies</i>
Worked with H. Chad Lane as an intern on the planning and creation of tools using latent semantic analysis (LSA) to evaluate student essays for the TACL intelligent tutoring system. Ran human experiments to train the system and test automated feedback. | USC |
| Summer 2006 | <i>Undergraduate Research Summer Institute</i>
With Prof. Luke Hunsberger, investigated the applicability of abstracted n -grams to the problem of musical comprehension, creating an agent that could learn the chord progressions characteristic | Vassar |

of a style of music and demonstrate that knowledge through chord prediction.

Summer 2005 *Undergraduate Research Assistant* Vassar
Worked as a research assistant, helping in the creation of the manually annotated subcorpus (MASC) of the American National Corpus (ANC).

PUBLICATIONS

Towards Adequate Knowledge and Natural Inference

Lenhart Schubert, Jonathan Gordon, Karl Stratos, and Adina Rubinoff. In the Proc. of the AAAI 2011 Fall Symposium on Advances in Cognitive Systems.

Episodic Logic: Natural Logic + Reasoning

Karl Stratos, Lenhart Schubert, and Jonathan Gordon. In the Proc. of the International Conference on Knowledge Engineering and Ontology Development (KEOD 2011).

Discovering Commonsense Entailment Rules Implicit in Sentences

Jonathan Gordon & Lenhart Schubert. In the Proc. of the EMNLP 2011 Workshop on Textual Entailment (TextInfer 2011).

Quantificational Sharpening of Commonsense Knowledge

Jonathan Gordon & Lenhart Schubert. In the Proc. of the AAAI 2010 Fall Symposium on Commonsense Knowledge (CSK 2010).

Learning from the Web: Extracting General World Knowledge from Noisy Text

Jonathan Gordon, Benjamin Van Durme, and Lenhart K. Schubert. In the Proc. of the AAAI 2010 Workshop on Collaboratively-built Knowledge Sources and Artificial Intelligence (WikiAI 2010).

Evaluation of Commonsense Knowledge with Mechanical Turk.

Jonathan Gordon, Benjamin Van Durme, and Lenhart K. Schubert. In the Proc. of the NAACL 2010 Workshop on Creating Speech and Language Data with Amazon's Mechanical Turk.

Weblogs as a Source for Extracting General World Knowledge.

Jonathan Gordon, Benjamin Van Durme, and Lenhart K. Schubert. In the Proc. of the Fifth International Conference on Knowledge Capture (K-CAP 2009).

INVITED TALKS

Towards Learning World Knowledge Suitable for Inference.

Reasoning with Text Workshop, 18–19 February 2011, at the USC Institute for Creative Technologies.

TEACHING EXPERIENCE

2008–2009 *Teaching Assistant* University of Rochester
Assisted with three semesters of graduate and undergraduate Computer Science classes. Wrote labs, workshops, and programming projects. Gave lectures and tutorials. Graded homework assignments and programming projects. Proctored and graded final examinations.

Fall 2004 *Lab Coach* Vassar
Helped students complete lab work for introductory Computer Science class, programming in Java. Held weekly office hours to answer questions.

ADDITIONAL WORK EXPERIENCE

2005–2007 *Assistant System Administrator* Vassar
Helped to maintain three labs of research systems, department servers, and faculty computers. Worked on transitioning from Solaris and Mac OS X to Linux and moving servers to running on Xen virtual machines. Created a custom web-based solution for monitoring system status.

PROFESSIONAL ACTIVITIES

Reviewer, AAAI 2010 Fall Symposium on Commonsense Knowledge (CSK 2010).

Meeting Organizer for the Seminar in Knowledge, Inference, and Language, University of Rochester.

SKILLS

Programming: especially in Lisp and Python on OS X and Linux.

Publication: online (HTML & CSS) and print (L^AT_EX).

New York, February 2012