

Jordan Boyd-Graber
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Academic Positions

UNIVERSITY OF MARYLAND
2009-present

College Park, MD

Postdoc. Working on models to predict social constructs such as sentiment and persuasion from multilingual text. Advisor: Philip Resnik.

Education PRINCETON UNIVERSITY
2004-2009

Princeton, NJ

Ph.D. in computer science. Research topics include computational linguistics and human-computer interaction. Thesis: *Incorporating Linguistic Information into Topic Models*. Advisor: David Blei.

PRINCETON UNIVERSITY
2004-2006

Princeton, NJ

M.A. in computer science. 3.9 GPA. Coursework in computer graphics, speech processing, graphical models, machine learning, nonstandard computation, and artificial intelligence.

CALIFORNIA INSTITUTE OF TECHNOLOGY
2000-2004

Pasadena, CA

B.S. in computer science, with honors, and B.S. in history, with honors. Coursework in complexity theory, distributed and concurrent programming, discrete math, real analysis, quantum mechanics, statistics, and linear algebra.

- Awards**
- American Association for Artificial Intelligence student award, International Science and Engineering Fair 2000
 - Caltech Jorgensen Scholarship 2001-2004
 - Richter Undergraduate Research Fellowship, 2001 and 2002
 - Computing Innovation Postdoctoral Fellowship 2009 (declined)
 - Honorable Mention, Best Student Paper, NIPS 2009

Publications **Chapter**

Sonya S. Nikolova, Jordan Boyd-Graber, and Christiane Fellbaum. **Collecting Semantic Similarity Ratings to Connect Concepts in Assistive Communication Tools.** *Modeling, Learning and Processing of Text Technological Data Structures*, 2009.

Conference

Jordan Boyd-Graber, Christiane Fellbaum, Daniel Osherson, and Robert Schapire. **Adding Dense, Weighted, Connections to WordNet.** *Proceedings of the Global WordNet Conference*, 2006.

Jordan Boyd-Graber, Sonya S. Nikolova, Karyn A. Moffatt, Kenrick C. Kin, Joshua Y. Lee, Lester W. Mackey, Marilyn M. Tremaine, and Maria M. Klawe. **Participatory design with proxies: Developing a desktop-PDA system to support people with aphasia.** *Computer-Human Interaction*, 2006.

Jordan Boyd-Graber, David M. Blei, and Xiaojin Zhu. **A Topic Model for Word Sense Disambiguation.** *Empirical Methods in Natural Language Processing*, 2007.

Jordan Boyd-Graber and David M. Blei. **Syntactic Topic Models.** *Neural Information Processing Systems*, 2008.

Sonya S. Nikolova, Jordan Boyd-Graber, Christiane Fellbaum, and Perry Cook. **Better Vocabularies for Assistive Communication Aids: Connecting Terms using Semantic Networks and Untrained Annotators.** *ACM Conference on Computers and Accessibility*, 2009.

Jonathan Chang, Jordan Boyd-Graber, and David M. Blei. **Connections between the Lines: Augmenting Social Networks with Text.** *Conference on Knowledge Discovery and Data Mining*, 2009.

Jordan Boyd-Graber and David M. Blei. **Multilingual Topic Models for Unaligned Text.** *Uncertainty in Artificial Intelligence*, 2009.

Jonathan Chang, Jordan Boyd-Graber, Chong Wang, Sean Gerrish, and David M. Blei. **Reading Tea Leaves: How Humans Interpret Topic Models.** *Neural Information Processing Systems*, 2009.

Xiaojuan Ma, Jordan Boyd-Graber, Sonya S. Nikolova, and Perry Cook. **Speaking Through Pictures: Images vs. Icons.** *ACM Conference on Computers and Accessibility*, 2009.

Journal

Alexander Geyken and Jordan Boyd-Graber. **Automatic classification of multi-word expressions in print dictionaries.** *Linguisticae Investigationes*, 2003.

Workshop

Jordan Boyd-Graber and David M. Blei. **PUTOP: Turning Predominant Senses into a Topic Model for WSD.** *4th International Workshop on Semantic Evaluations*, 2007.

Jonathan Chang, Jordan Boyd-Graber, and David M. Blei. **Discovering social networks from free text.** *3rd Annual Machine Learning Symposium*, 2008.

Jordan Boyd-Graber and David M. Blei. **Multilingual Topic Models.** *Unsupervised Latent Variable Models*, 2008.

Sonya S. Nikolova, Jordan Boyd-Graber, and Perry Cook. **The Design of ViVA: A Mixed-initiative Visual Vocabulary for Aphasia**. *Proceedings of the 27th international conference extended abstracts on Human factors in computing systems*, 2009.

Teaching

COS/LIN 280: COMPUTATIONAL LINGUISTICS
Fall 2008

Christiane Fellbaum

Co-developed a new course that introduces sophomores and juniors to computational linguistics. Responsible for designing homework assignments and preparing several lectures in addition to grading and holding office hours.

COS 226: ALGORITHMS AND DATA STRUCTURES
Spring 2006

Robert Sedgewick

Taught one section (20 students) of a sophomore level course that covered hashing, heaps, trees, tries, sorting, and basic computational geometry. Presented weekly lectures over material and also graded written work and computer programs.

COS 109: COMPUTERS IN OUR WORLD
Fall 2005

Brian Kernighan

Graded problem sets, created solution sets, and held office hours for a course to explain computers and technology to non-computer science majors.

COS 497: SENIOR INDEPENDENT WORK
Spring 2005

Maria Klawe

Supervised a team of three undergraduate students in the construction of a daily planner for people with aphasia, a disorder caused by strokes that causes its victims to lose the ability to understand or produce language.

Professional Activities

- Program Committee *NAACL 2010 Workshop on Creating Speech and Text Language Data With Amazon's Mechanical Turk*
- Reviewer for *COLING 2010*
- Program Committee *ACL 2010* (Lexical Semantics)
- Reviewer for *ICML 2010*
- Program Committee *2010 Global WordNet Association Conference*
- Co-organizer for *NIPS 2009 Workshop on Topic Model Applications: Text and Beyond*
- Reviewer for *NIPS 2009*
- Reviewer for *ICML 2009*
- Assistant Reviewer for *Journal of Machine Learning Research*
- Reviewer for *EMNLP 2008*
- Program Committee *2008 Global WordNet Association Conference*
- Assistant Reviewer for *UAI 2007*
- Reviewer, *Elsivier Computer Speech and Language*, January 2007
- Reviewer, *Works in Progress 2006 SIGCHI*

- Program Committee *2006 Global WordNet Association Conference*

Employment PRINCETON UNIVERSITY Princeton, NJ
Writing Fellow, February 2007 – May 2008

I helped upper-level graduate students in mathematics and engineering to plan and complete their dissertations.

GOOGLE New York, NY
Software Engineering Intern, May 2007-September 2007

I was a part of a data mining project using the Google Books corpus.

UNIVERSITY OF CALIFORNIA AT LOS ANGELES Los Angeles, CA
Computer Consultant, June 2004-July 2004

I worked with historians to develop a computational model to automatically cluster family groups from the *Polypitque of St. Germain*, a medieval landholding record, based on morphological similarities of family names.

EINSTEIN PAPERS PROJECT Pasadena, CA
Student Research Assistant, April 2003-July 2004

I helped design and implement web-based (JSP and SQL) interface for project's database system, assured backwards compatibility of www.alberteinstein.info, assisted in editing volumes, and researched Weimar-era newspapers.

HIXON WRITING CENTER Pasadena, CA
Peer Tutor, October 2001 – June 2004

I helped implement Caltech's online evaluation of incoming students during its first four years and assisted students in improving their writing. I was also a "conversation partner" for non-native speakers of English.

CALTECH DIGITAL MEDIA CENTER Pasadena, CA
Lab Technician, August 2001 – April 2003

I interacted with researchers to help prepare presentations and to analyze their data, maintained a Cumulus media database, and digitized film collected during research.

BERLIN-BRANDENBURGISCHE AKADEMIE DER WISSENSCHAFTEN Berlin, Germany
Praktikant, June 2002 – September 2002

I created a system to classify idioms of interest to a team of linguists at the academy, supervised the work of a junior researcher, and developed German language software for the group.

Immigration status: U.S. citizen

References

David Blei	Christiane Fellbaum	Maria Klawe	Dan Osherson
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