

Jordan Boyd-Graber
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Academic Positions

UNIVERSITY OF MARYLAND
2010-present

College Park, MD

Assistant Professor in the College of Information Studies (1st Year).

UNIVERSITY OF MARYLAND
2009-2010

College Park, MD

Postdoc. Investigating 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 (degree conferred September 2010). 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 (degree conferred May 2007). 3.9 GPA. Coursework in computer graphics, speech processing, graphical models, nonparametric statistics, 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 (degrees conferred June 2004). Coursework in complexity theory, distributed and concurrent programming, discrete math, real analysis, quantum mechanics, statistics, and linear algebra.

Other 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

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, 2011.

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.

Jordan Boyd-Graber and Philip Resnik. **Holistic Sentiment Analysis Across Languages: Multilingual Supervised Latent Dirichlet Allocation**. *Empirical Methods in Natural Language Processing*, 2010.

Eric Hardisty, Jordan Boyd-Graber, and Philip Resnik. **Modeling Perspective using Adaptor Grammars**. *Empirical Methods in Natural Language Processing*, 2010.

Thomas Clay Templeton, Kenneth R. Fleischmann, and Jordan Boyd-Graber. **Comparing Values and Sentiment Using Mechanical Turk**. *iConference*, 2011.

Kenneth R. Fleischmann, Thomas Clay Templeton, and Jordan Boyd-Graber. **Modeling Diverse Standpoints in Text Classification: Learning to Be Human by Modeling Human Values**. *iConference*, 2011.

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.

Nitin Madnani, Jordan Boyd-Graber, and Philip Resnik. **Measuring Transitivity Using Untrained Annotators.** *Creating Speech and Language Data With Amazon's Mechanical Turk*, 2010.

Invited Talks

2011 UMD Winter Storm (College Park, MD)

2010 Harvard University (Cambridge, MA), University of Massachusetts (Amherst, Massachusetts), Johns Hopkins Summer Workshop for SMT (Baltimore, MD)

2009 University of Massachusetts (Amherst, Massachusetts), Center for Communications Research (Princeton, NJ), Center of Excellence (Baltimore, MD), Columbia University (New York, NY)

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

Scholarly Service

- Reviewer for *ICML 2011*
- Program Committee *NIPS 2010 Workshop on Computational Social Science and the Wisdom of Crowds*
- Reviewer for *Transactions on Knowledge Discovery from Data*
- Reviewer for *Annals of Applied Statistics*
- Reviewer for *Journal of Machine Learning Research*

- Reviewer for *NIPS 2010*
- 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, *Elsevier Computer Speech and Language*, January 2007
- Reviewer, *Works in Progress 2006 SIGCHI*
- Program Committee *2006 Global WordNet Association Conference*

Teaching

INFM 718G: WEB SCALE INFORMATION PROCESSING APPLICATIONS UMD
Spring 2011 (12 students)

LBSC 690: INTRODUCTION TO INFORMATION TECHNOLOGY UMD
Fall 2010 (30 students)

COS/LIN 280: COMPUTATIONAL LINGUISTICS Princeton
Fall 2008 (40 students)

Advising

PHD

- Yuening Hu (CMSC)
- Ke Zhai (CMSC)

MASTERS

- Brianna Satinoff (CMSC)

University Service

- Organizer for Computational Linguistics and Information Processing Colloquium
- Member: College of Information Studies Research Committee