

# Jordan Boyd-Graber

jbg@umiacs.umd.edu • +1 (920) 524-9464 • <http://umiacs.umd.edu/~jbg>  
3155 • Computer Science • iSchool • College Park, MD

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## Summary

Jordan Boyd-Graber's research focus is in applying machine learning to problems that help computers better work with or understand humans. His research applies statistical models to natural language problems in ways that interact with humans, learn from humans, or help researchers understand humans.

Jordan is an expert in the application of topic mod-

els, automatic tools that discover structure and meaning in large, multilingual datasets. His work has been supported by NSF, DARPA, IARPA, and ARL.

His award include a 2017 NSF CAREER, the Karen Spärk Jones prize; "best of" awards at NIPS, CoNLL, and NAACL; and a Computing Innovation Fellowship (declined). His Erdős number is 2.

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## Positions Held

University of Maryland	COLLEGE PARK, MD
Associate Professor in Computer Science, UMIACS, and iSchool	2017–Present
Assistant Professor in the Institute for Advanced Computer Studies	2011–2014
Assistant Professor of Information Studies (iSchool)	2010–2014
University of Colorado Boulder	BOULDER, CO
Assistant Professor of Computer Science	2014–2017
Associate Professor of Computer Science	2017

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## Education

Princeton University	PRINCETON, NJ
Ph.D. in Computer Science	2004 – 2010
Advisor: David Blei; Thesis: Linguistic Extensions of Topic Models	
California Institute of Technology	PASADENA, CA
B.S. in Computer Science and History (dual degree)	2000 – 2004

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## Selected Publications

**Note:** Students I have advised are underlined.

1. Jordan Boyd-Graber, Yuening Hu, and David Mimno. **Applications of Topic Models**. 2017.
  2. Mohit Iyyer, Anupam Guha, Snigdha Chaturvedi, Jordan Boyd-Graber, and Hal Daumé III. **Feuding Families and Former Friends: Unsupervised Learning for Dynamic Fictional Relationships**. *North American Association for Computational Linguistics*, 2016, (24% Acceptance Rate).
  3. Yuening Hu, Ke Zhai, Vlad Eidelman, and Jordan Boyd-Graber. **Polylingual Tree-Based Topic Models for Translation Domain Adaptation**. *Association for Computational Linguistics*, 2014 (26% Acceptance Rate).
  4. Alvin Grissom II, Jordan Boyd-Graber, He He, John Morgan, and Hal Daumé III. **Don't Until the Final Verb Wait: Reinforcement Learning for Simultaneous Machine Translation**. *Empirical Methods in Natural Language Processing*, 2014.
  5. Yuening Hu, Jordan Boyd-Graber, Brianna Satinoff, and Alison Smith. **Interactive Topic Modeling**. *Machine Learning*, 2013.
  6. Yuening Hu, Ke Zhai, Sinead Williamson, and Jordan Boyd-Graber. **Modeling Images using Transformed Indian Buffet Processes**. *International Conference of Machine Learning*, 2012 (27% Acceptance Rate).
  7. Ke Zhai, Jordan Boyd-Graber, Nima Asadi, and Mohamad Alkhouja. **Mr. LDA: A Flexible Large Scale Topic Modeling Package using Variational Inference in MapReduce**. *ACM International Conference on World Wide Web*, 2012 (12% Acceptance Rate).
  8. 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 (24% Acceptance Rate).
  9. Jordan Boyd-Graber, Christiane Fellbaum, Daniel Osherson, and Robert Schapire. **Adding Dense, Weighted, Connections to WordNet**. *Proceedings of the Global WordNet Conference*, 2006.
  10. Jordan Boyd-Graber, Sonya S. Nikolova, Karyn A. Mofatt, 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 (23% Acceptance Rate).
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**Natural languages:** English (*native*), German (*working*), and Mandarin Chinese (*beginner*).