

# Jordan Boyd-Graber

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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 models,

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

He was the 2015 recipient of the Karen Spärk Jones award; "best of" awards at NIPS, CoNLL, and NAACL; a Computing Innovation Fellowship (declined); and a Jorgensen fellowship. His Erdős number is 2.

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## Positions Held

University of Colorado Boulder

Assistant Professor of Computer Science

BOULDER, CO

2014–Present

University of Maryland

Assistant Professor in the Institute for Advanced Computer Studies

COLLEGE PARK, MD

2011–2014

Assistant Professor of Information Studies

2010–2014

Postdoc

2009–2010

Advisor: Philip Resnik

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## Education

Princeton University

Ph.D. in Computer Science

Advisor: David Blei; Thesis: Linguistic Extensions of Topic Models

PRINCETON, NJ

2004 – 2010

California Institute of Technology

B.S. in Computer Science and History (dual degree)

PASADENA, CA

2000 – 2004

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## Selected Publications

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

1. 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).
  2. 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).
  3. 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.
  4. Viet-An Nguyen, Jordan Boyd-Graber, and Philip Resnik. **Lexical and Hierarchical Topic Regression**. *Neural Information Processing Systems*, 2013 (25% Acceptance Rate).
  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 Word-Net 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*).