

# Jordan Boyd-Graber

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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

Associate Professor in Computer Science, UMIACS, and iSchool

Assistant Professor in the Institute for Advanced Computer Studies

Assistant Professor of Information Studies (iSchool)

University of Colorado Boulder

Assistant Professor of Computer Science

Associate Professor of Computer Science

COLLEGE PARK, MD

2017–Present

2011–2014

2010–2014

BOULDER, CO

2014–2017

2017

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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. 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*).