

Jordan Boyd-Graber

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Summary

Jordan Boyd-Graber's research focus is in applying machine learning and Bayesian probabilistic models to problems that help us better understand social interaction or human cognition. 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. He is a contributor to the Natural Language Toolkit (NLTK), a popular Python package. His work has been supported by NSF, IARPA, and ARL.

He received a NIPS Best Paper award honorable mention, a Computing Innovation Fellowship (declined), and a Jorgensen fellowship. His Erdős number is 2.

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

Education

Princeton University

Ph.D. in Computer Science

PRINCETON, NJ

2004 – 2010

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

California Institute of Technology

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

PASADENA, CA

2000 – 2004

Selected Publications

Note: Students I have advised are underlined.

1. 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).
2. 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.
3. Viet-An Nguyen, **Jordan Boyd-Graber**, and Philip Resnik. **Lexical and Hierarchical Topic Regression**. *Neural Information Processing Systems*, 2013 (25% Acceptance Rate).
4. Yuening Hu, **Jordan Boyd-Graber**, Brianna Satinoff, and Alison Smith. **Interactive Topic Modeling**. *Machine Learning*, 2013.
5. 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).
6. Ke Zhai, **Jordan Boyd-Graber**, Nima Asadi, and Mohamad Alkhoulja. **Mr. LDA: A Flexible Large**
7. **Jordan Boyd-Graber** and Philip Resnik. **Holistic Sentiment Analysis Across Languages: Multilingual Supervised Latent Dirichlet Allocation**. *Empirical Methods in Natural Language Processing*, 2010 (25% 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 Osheer, 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. 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 (23% Acceptance Rate).

Natural languages: English (*native*), German (*working*), and Mandarin Chinese (*beginner*).