

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, automatic tools that discover structure and meaning in large, multilingual datasets. His work has been sup-

ported by NSF, DARPA, IARPA, and ARL.

Three of his students have gone on to tenure track positions at NYU, U Mass Amherst, and Ursinus.

His awards 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 (via Maria Klawe), and his Bacon number is 3 (by embarrassing himself on *Jeopardy!*).

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

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

Selected Publications

Note: Students I have advised are underlined.

1. Eric Wallace, Pedro Rodriguez, Shi Feng, Ikuya Yamada, and Jordan Boyd-Graber. **Trick Me If You Can: Human-in-the-loop Generation of Adversarial Question Answering Examples**. *Transactions of the Association of Computational Linguistics*, 2019.
 2. Jordan Boyd-Graber, Yuening Hu, and David Mimno. **Applications of Topic Models**. 2017.
 3. 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.
 4. He He, Jordan Boyd-Graber, Kevin Kwok, and Hal Daumé III. **Opponent Modeling in Deep Reinforcement Learning**. *International Conference on Machine Learning*, 2016.
 5. 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.
 6. Viet-An Nguyen, Jordan Boyd-Graber, and Philip Resnik. **Lexical and Hierarchical Topic Regression**. *Neural Information Processing Systems*, 2013.
 7. Yuening Hu, Jordan Boyd-Graber, Brianna Satinoff, and Alison Smith. **Interactive Topic Modeling**. *Machine Learning*, 2013.
 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.
 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. 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.
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Natural languages: English (*native*), German (*working*), and Mandarin Chinese (*beginner*).