

# Jordan Boyd-Graber

Jordan.Boyd.Grabber@colorado.edu • +1 (920) 524-9464 • <http://cs.colorado.edu/~jbg>  
111B ECCS • Computer Science • College of Engineering and Applied Science • Boulder, CO 80309

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## University Appointments

University of Colorado Boulder	BOULDER, CO
Assistant Professor, Computer Science	2014–Present
University of Maryland	COLLEGE PARK, MD
Affiliate Assistant Professor, Computer Science	2011–2017
Assistant Professor, Institute for Advanced Computer Studies	2011–2014
Assistant Professor, College of Information Studies	2010–2014
Postdoc (Advisor: Philip Resnik)	2009–2010

## Education

Princeton University	PRINCETON, NJ
Ph.D., Computer Science	2010
Thesis: Linguistic Extensions of Topic Models (Advisor: David Blei)	
M.A., Computer Science	2007
California Institute of Technology	PASADENA, CA
B.S., Computer Science	2004
B.S., History	2004

## Other Employment

Princeton University	PRINCETON, NJ
Writing Fellow, Princeton Writing Center	2007–2008
Google	NEW YORK, NY
Intern	2007
University of California Los Angeles	LOS ANGELES, CA
Digital Humanities Programmer	2004
California Institute of Technology	PASADENA, CA
Newsprint Researcher / Programmer, Einstein Papers Project	2003–2004
Peer Tutor, Hixon Writing Center	2001–2004
Lab Technician, Caltech Digital Media Center	2001–2003

Immigration status: U.S. citizen (born in Eagle County, Colorado)

## Fellowships, Prizes, and Awards

- NSF CAREER Award 2017
- Quora Top Writer, 2016, 2017
- Best Paper Award, NAACL 2016
- Best Demonstration Award, NIPS 2015
- Karen Spärk Jones Award, 2015
- Best Paper Award, CoNLL 2015
- Honorable Mention, Best Student Paper, NIPS 2009
- Computing Innovation Postdoctoral Fellowship 2009 (declined)
- Richter Undergraduate Research Fellowship, 2001 and 2002
- Caltech Jorgensen Scholarship 2001–2004
- AAAI Research Award, International Science and Engineering Fair (ISEF) 2000

## Publications

Students directly advised or co-advised in underline.

### Book

1. **Jordan Boyd-Graber**, Yuening Hu, and David Mimno. **Applications of Topic Models**. In Preparation.

### Chapter

1. Evgeny Klochikhin and **Jordan Boyd-Graber**. **Text Analysis**. *Big Data and Social Science Research: Theory and Practical Approaches*, 2016.
2. **Jordan Boyd-Graber**, David Mimno, and David Newman. **Care and Feeding of Topic Models: Problems, Diagnostics, and Improvements**. *Handbook of Mixed Membership Models and Their Applications*, 2014, 39 pages.
3. Sonya S. Nikolova, **Jordan Boyd-Graber**, and Christiane Fellbaum. **Collecting Semantic Similarity Ratings to Connect Concepts in Assistive Communication Tools**. *Modeling, Learning and Processing of Text Technological Data Structures*, 2011, 11 pages.

### Journal

1. Tak Yeon Lee, Alison Smith, Kevin Seppi, Niklas Elmqvist, **Jordan Boyd-Graber**, and Leah Findlater. **The Human Touch: How Non-expert Users Perceive, Interpret, and Fix Topic Models**. *International Journal of Human-Computer Studies*, 2017.
2. Alison Smith, Tak Yeon Lee, Forough Poursabzi-Sangdeh, **Jordan Boyd-Graber**, Kevin Seppi, Niklas Elmqvist, and Leah Findlater. **Evaluating Visual Representations for Topic Understanding and Their Effects on Manually Generated Labels**. *Transactions of the Association for Computational Linguistics*, 2017.
3. Yuening Hu, **Jordan Boyd-Graber**, Brianna Satinoff, and Alison Smith. **Interactive Topic Modeling**. *Machine Learning*, 2014, 56 pages.
4. Viet-An Nguyen, **Jordan Boyd-Graber**, Philip Resnik, Deborah Cai, Jennifer Midberry, and Yuanxin Wang. **Modeling Topic Control to Detect Influence in Conversations using Nonparametric Topic Models**. *Machine Learning*, 2014, 48 pages.
5. Ke Zhai, **Jordan Boyd-Graber**, and Shay B. Cohen. **Online Adaptor Grammars with Hybrid Inference**. *Transactions of the Association for Computational Linguistics*, 2014, 12 pages.
6. Viet-An Nguyen, **Jordan Boyd-Graber**, and Stephen Altschul. **Dirichlet Mixtures, the Dirichlet Process, and the Structure of Protein Space**. *Journal of Computational Biology*, 2013, 48 pages.
7. Alexander Geyken and **Jordan Boyd-Graber**. **Automatic classification of multi-word expressions in print dictionaries**. *Linguisticae Investigationes*, 2003, 16 pages.

### Refereed Conference

1. Mohit Iyyer, Varun Manjunatha, Anupam Guha, Yogarshi Vyas, **Jordan Boyd-Graber**, Hal Daumé III, and Larry Davis. **The Amazing Mysteries of the Gutter: Drawing Inferences Between Panels in Comic Book Narratives**. *Computer Vision and Pattern Recognition*, 2017.
2. Weiwei Yang, **Jordan Boyd-Graber**, and Philip Resnik. **A Discriminative Topic Model using Document Network Structure**. *Association for Computational Linguistics*, 2016, 10 pages.
3. Forough Poursabzi-Sangdeh, **Jordan Boyd-Graber**, Leah Findlater, and Kevin Seppi. **ALTO: Active Learning with Topic Overviews for Speeding Label Induction and Document Labeling**. *Association for Computational Linguistics*, 2016.
4. Hadi Amiri, Philip Resnik, **Jordan Boyd-Graber**, and Hal Daumé III. **Learning Text Pair Similarity with Context-sensitive Autoencoders**. *Association for Computational Linguistics*, 2016.
5. Alvin Grissom II, Naho Orita, and **Jordan Boyd-Graber**. **Incremental Prediction of Sentence-final Verbs**. *Conference on Computational Natural Language Learning*, 2016, 10 pages.
6. He He, **Jordan Boyd-Graber**, and Hal Daumé III. **Opponent Modeling in Deep Reinforcement Learning**. *International Conference on Machine Learning*, 2016, 10 pages (24% Acceptance Rate).
7. Md Arafat Sultan, **Jordan Boyd-Graber**, and Tamara Sumner. **Bayesian Supervised Domain Adaptation for Short Text Similarity**. *North American Association for Computational Linguistics*, 2016, 11 pages (24% Acceptance Rate).
8. 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, 11 pages (24% Acceptance Rate).

9. [He He](#), [Jordan Boyd-Graber](#), and Hal Daumé III. **Interpretese vs. Translationese: The Uniqueness of Human Strategies in Simultaneous Interpretation.** *North American Association for Computational Linguistics*, 2016, 6 pages (29% Acceptance Rate).
10. [Mohit Iyyer](#), [Varun Manjunatha](#), [Jordan Boyd-Graber](#), and Hal Daumé III. **Deep Unordered Composition Rivals Syntactic Methods for Text Classification.** *Association for Computational Linguistics*, 2015, 11 pages (25% Acceptance Rate).
11. [Vlad Niculae](#), [Srijan Kumar](#), [Jordan Boyd-Graber](#), and [Cristian Danescu-Niculescu-Mizil](#). **Linguistic Harbingers of Betrayal: A Case Study on an Online Strategy Game.** *Association for Computational Linguistics*, 2015, 10 pages (25% Acceptance Rate).
12. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), [Philip Resnik](#), and [Kristina Miler](#). **Tea Party in the House: A Hierarchical Ideal Point Topic Model and Its Application to Republican Legislators in the 112th Congress.** *Association for Computational Linguistics*, 2015, 11 pages (25% Acceptance Rate).
13. [Paul Felt](#), [Eric Ringger](#), [Jordan Boyd-Graber](#), and [Kevin Seppi](#). **Making the Most of Crowdsourced Document Annotations: Confused Supervised LDA.** *Conference on Computational Natural Language Learning*, 2015, 10 pages (30% Acceptance Rate).
14. [Weiwei Yang](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Birds of a Feather Linked Together: A Discriminative Topic Model using Link-based Priors.** *Empirical Methods in Natural Language Processing*, 2015, 5 pages (28% Acceptance Rate).
15. [Yi Yang](#), [Doug Downey](#), and [Jordan Boyd-Graber](#). **Efficient Methods for Incorporating Knowledge into Topic Models.** *Empirical Methods in Natural Language Processing*, 2015, 9 pages (24% Acceptance Rate).
16. [He He](#), [Alvin Grissom II](#), [Jordan Boyd-Graber](#), and Hal Daumé III. **Syntax-based Rewriting for Simultaneous Machine Translation.** *Empirical Methods in Natural Language Processing*, 2015 (24% Acceptance Rate).
17. [Stephen H. Bach](#), [Bert Huang](#), [Jordan Boyd-Graber](#), and [Lise Getoor](#). **Paired-Dual Learning for Fast Training of Latent Variable Hinge-Loss MRFs.** *International Conference on Machine Learning*, 2015, 10 pages (20% Acceptance Rate).
18. [Jordan Boyd-Graber](#), [Mohit Iyyer](#), [He He](#), and Hal Daumé III. **Interactive Incremental Question Answering.** *Neural Information Processing Systems*, 2015.
19. [Thang Nguyen](#), [Jordan Boyd-Graber](#), [Jeff Lund](#), [Kevin Seppi](#), and [Eric Ringger](#). **Is your anchor going up or down? Fast and accurate supervised topic models.** *North American Association for Computational Linguistics*, 2015, 10 pages (26% Acceptance Rate).
20. [Anupam Guha](#), [Mohit Iyyer](#), [Danny Bouman](#), and [Jordan Boyd-Graber](#). **Removing the Training Wheels: A Coreference Dataset that Entertains Humans and Challenges Computers.** *North American Association for Computational Linguistics*, 2015, 11 pages (26% Acceptance Rate).
21. [Thang Nguyen](#), [Yuening Hu](#), and [Jordan Boyd-Graber](#). **Anchors Regularized: Adding Robustness and Extensibility to Scalable Topic-Modeling Algorithms.** *Association for Computational Linguistics*, 2014, 10 pages (26% Acceptance Rate).
22. [Mohit Iyyer](#), [Peter Enns](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Political Ideology Detection Using Recursive Neural Networks.** *Association for Computational Linguistics*, 2014, 10 pages (26% Acceptance Rate).
23. [Yuening Hu](#), [Ke Zhai](#), [Vlad Eidelman](#), and [Jordan Boyd-Graber](#). **Polylingual Tree-Based Topic Models for Translation Domain Adaptation.** *Association for Computational Linguistics*, 2014, 11 pages (26% Acceptance Rate).
24. [Mohit Iyyer](#), [Jordan Boyd-Graber](#), [Leonardo Claudino](#), [Richard Socher](#), and Hal Daumé III. **A Neural Network for Factoid Question Answering over Paragraphs.** *Empirical Methods in Natural Language Processing*, 2014, 12 pages (26% Acceptance Rate).
25. [Alvin Grissom II](#), [He He](#), [Jordan Boyd-Graber](#), [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, 11 pages (30% Acceptance Rate).
26. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Sometimes Average is Best: The Importance of Averaging for Prediction using MCMC Inference in Topic Modeling.** *Empirical Methods in Natural Language Processing*, 2014, 6 pages (30% Acceptance Rate).
27. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), [Philip Resnik](#), and [Jonathan Chang](#). **Learning a Concept Hierarchy from Multi-labeled Documents.** *Neural Information Processing Systems*, 2014, 9 pages (25% Acceptance Rate).

28. [Kimberly Glasgow](#), [Clay Fink](#), and [Jordan Boyd-Graber](#). **Our grief is unspeakable: Measuring the community impact of a tragedy**. *The International AAAI Conference on Weblogs and Social Media*, 2014, 9 pages (20% Acceptance Rate).
29. [Jordan Boyd-Graber](#), [Kimberly Glasgow](#), and [Jackie Sauter Zajac](#). **Spoiler Alert: Machine Learning Approaches to Detect Social Media Posts with Revelatory Information**. *ASIST 2013: The 76th Annual Meeting of the American Society for Information Science and Technology*, 2013, 9 pages.
30. [Ke Zhai](#) and [Jordan Boyd-Graber](#). **Online Topic Models with Infinite Vocabulary**. *International Conference on Machine Learning*, 2013, 9 pages (20% Acceptance Rate).
31. [Yuening Hu](#), [Jordan Boyd-Graber](#), [Hal Daumé III](#), and [Z. Irene Ying](#). **Binary to Bushy: Bayesian Hierarchical Clustering with the Beta Coalescent**. *Neural Information Processing Systems*, 2013, 9 pages (25% Acceptance Rate).
32. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Lexical and Hierarchical Topic Regression**. *Neural Information Processing Systems*, 2013, 10 pages (25% Acceptance Rate).
33. [Viet-An Nguyen](#), [Yuening Hu](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Argviz: Interactive Visualization of Topic Dynamics in Multi-party Conversations**. *North American Association for Computational Linguistics*, 2013, 4 pages (50% Acceptance Rate).
34. [Naho Orita](#), [Rebecca McKeown](#), [Naomi H. Feldman](#), [Jeffrey Lidz](#), and [Jordan Boyd-Graber](#). **Discovering Pronoun Categories using Discourse Information**. *Proceedings of the Cognitive Science Society*, 2013, 6 pages.
35. [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, 10 pages (12% Acceptance Rate).
36. [Yuening Hu](#) and [Jordan Boyd-Graber](#). **Efficient Tree-Based Topic Modeling**. *Association for Computational Linguistics*, 2012, 5 pages (21% Acceptance Rate).
37. [Vladimir Eidelman](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Topic Models for Dynamic Translation Model Adaptation**. *Association for Computational Linguistics*, 2012, 5 pages (21% Acceptance Rate).
38. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **SITS: A Hierarchical Nonparametric Model using Speaker Identity for Topic Segmentation in Multiparty Conversations**. *Association for Computational Linguistics*, 2012, 10 pages (19% Acceptance Rate).
39. [Jordan Boyd-Graber](#), [Brianna Satinoff](#), [He He](#), and [Hal Daumé III](#). **Besting the Quiz Master: Crowdsourcing Incremental Classification Games**. *Empirical Methods in Natural Language Processing*, 2012, 12 pages (25% Acceptance Rate).
40. [Yuening Hu](#), [Ke Zhai](#), [Sinead Williamson](#), and [Jordan Boyd-Graber](#). **Modeling Images using Transformed Indian Buffet Processes**. *International Conference of Machine Learning*, 2012, 8 pages (27% Acceptance Rate).
41. [Asad B. Sayeed](#), [Jordan Boyd-Graber](#), [Bryan Rusk](#), and [Amy Weinberg](#). **Grammatical structures for word-level sentiment detection**. *North American Association of Computational Linguistics*, 2012, 10 pages (31% Acceptance Rate).
42. [Yuening Hu](#), [Jordan Boyd-Graber](#), and [Brianna Satinoff](#). **Interactive Topic Modeling**. *Association for Computational Linguistics*, 2011, 10 pages (25% Acceptance Rate).
43. [Clay Templeton](#), [Kenneth R. Fleischmann](#), and [Jordan Boyd-Graber](#). **Simulating Audiences: Automating Analysis of Values, Attitudes, and Sentiment**. *IEEE International Conference on Social Computing*, 2011, 4 pages (10% Acceptance Rate).
44. [Clay Templeton](#), [Kenneth R. Fleischmann](#), and [Jordan Boyd-Graber](#). **Comparing Values and Sentiment Using Mechanical Turk**. *iConference*, 2011, 2 pages.
45. [Kenneth R. Fleischmann](#), [Clay Templeton](#), and [Jordan Boyd-Graber](#). **Modeling Diverse Standpoints in Text Classification: Learning to Be Human by Modeling Human Values**. *iConference*, 2011, 2 pages.
46. [Jordan Boyd-Graber](#) and [Philip Resnik](#). **Holistic Sentiment Analysis Across Languages: Multilingual Supervised Latent Dirichlet Allocation**. *Empirical Methods in Natural Language Processing*, 2010, 11 pages (25% Acceptance Rate).
47. [Eric Hardisty](#), [Jordan Boyd-Graber](#), and [Philip Resnik](#). **Modeling Perspective using Adaptor Grammars**. *Empirical Methods in Natural Language Processing*, 2010, 10 pages (25% Acceptance Rate).
48. [Sonya S. Nikolova](#), [Jordan Boyd-Graber](#), [Christiane Fellbaum](#), and [Perry Cook](#). **Better Vocabularies for Assistive Communication Aids: Connecting Terms using Semantic Networks and Untrained Annotators**. *ACM Conference on Computers and Accessibility*, 2009, 8 pages (31% Acceptance Rate).



49. Xiaojuan Ma, **Jordan Boyd-Graber**, Sonya S. Nikolova, and Perry Cook. **Speaking Through Pictures: Images vs. Icons**. *ACM Conference on Computers and Accessibility*, 2009, 8 pages (31% Acceptance Rate).
50. Jonathan Chang, **Jordan Boyd-Graber**, and David M. Blei. **Connections between the Lines: Augmenting Social Networks with Text**. *Knowledge Discovery and Data Mining*, 2009, 9 pages (9% Acceptance Rate).
51. 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 pages (24% Acceptance Rate).
52. **Jordan Boyd-Graber** and David M. Blei. **Multilingual Topic Models for Unaligned Text**. *Uncertainty in Artificial Intelligence*, 2009, 8 pages (31% Acceptance Rate).
53. **Jordan Boyd-Graber** and David M. Blei. **Syntactic Topic Models**. *Neural Information Processing Systems*, 2008, 8 pages (25% Acceptance Rate).
54. **Jordan Boyd-Graber**, David M. Blei, and Xiaojin Zhu. **A Topic Model for Word Sense Disambiguation**. *Empirical Methods in Natural Language Processing*, 2007, 10 pages (27% Acceptance Rate).
55. **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, 10 pages (23% Acceptance Rate).
56. **Jordan Boyd-Graber**, Christiane Fellbaum, Daniel Osherson, and Robert Schapire. **Adding Dense, Weighted, Connections to WordNet**. *Proceedings of the Global WordNet Conference*, 2006, 10 pages.

## Workshop

1. Alison Smith, Varun Kumar, **Jordan Boyd-Graber**, Kevin Seppi, and Leah Findlater. **Accounting for Input Uncertainty in Human-in-the-Loop Systems**. *CHI 2017 Designing for Uncertainty Workshop*, 2017.
2. Alison Smith, Tak Yeon Lee, [Forough Poursabzi-Sangdeh](#), **Jordan Boyd-Graber**, Kevin Seppi, Niklas Elmquist, and Leah Findlater. **Human-Centered and Interactive: Expanding the Impact of Topic Models**. *CHI Human Centred Machine Learning Workshop*, 2016.
3. Weiwei Yang, **Jordan Boyd-Graber**, and Philip Resnik. **Birds of a Feather in the Same Nest: A Discriminative Topic Model using Block-based Priors**. *Mid-Atlantic Student Colloquium on Speech, Language, and Learning*, 2016.
4. Anupam Guha, [Mohit Iyyer](#), and **Jordan Boyd-Graber**. **A Distorted Skull Lies in the Bottom Center: Identifying Paintings from Text Descriptions**. *NAACL Human-Computer Question Answering Workshop*, 2016.
5. [Forough Poursabzi-Sangdeh](#) and **Jordan Boyd-Graber**. **Speeding Document Annotation with Topic Models**. *NAACL Student Research Workshop*, 2015.
6. Philip Resnik, William Armstrong, Leonardo Claudino, [Thang Nguyen](#), [Viet-An Nguyen](#), and **Jordan Boyd-Graber**. **Beyond LDA: Exploring Supervised Topic Modeling for Depression-Related Language in Twitter**. *NAACL Workshop on Cognitive Modeling and Computational Linguistics*, 2015.
7. Naho Orita, Naomi Feldman, and **Jordan Boyd-Graber**. **Quantifying the role of discourse topicality in speakers' choices of referring expressions**. *ACL Workshop on Cognitive Modeling and Computational Linguistics*, 2014.
8. [Alison Smith](#), Jason Chuang, [Yuening Hu](#), **Jordan Boyd-Graber**, and Leah Findlater. **Concurrent Visualization of Relationships between Words and Topics in Topic Models**. *ACL Workshop on Workshop on Interactive Language Learning, Visualization, and Interfaces*, 2014.
9. [Ke Zhai](#), **Jordan Boyd-Graber**, and Shay B. Cohen. **Hybrid Online Inference with Adaptor Grammars**. *NIPS Workshop on Advances in Variational Inference*, 2014.
10. Jason Chuang, John D. Wilkerson, Rebecca Weiss, Dustin Tingley, Brandon M. Stewart, Margaret E. Roberts, [Forough Poursabzi-Sangdeh](#), Justin Grimmer, Leah Findlater, **Jordan Boyd-Graber**, and Jeffrey Heer. **Computer-Assisted Content Analysis: Topic Models for Exploring Multiple Subjective Interpretations**. *NIPS Workshop on Human-Propelled Machine Learning*, 2014.
11. Jason Chuang, John D. Wilkerson, Rebecca Weiss, Dustin Tingley, Brandon M. Stewart, Margaret E. Roberts, [Forough Poursabzi-Sangdeh](#), Justin Grimmer, Leah Findlater, **Jordan Boyd-Graber**, and Jeffrey Heer. **Computer-Assisted Content Analysis: Topic Models for Exploring Multiple Subjective Interpretations**. *NIPS Workshop on Human-Propelled Machine Learning*, 2014.

12. [Mohit Iyyer](#), [Jordan Boyd-Graber](#), and Hal Daumé III. **Generating Sentences from Semantic Vector Space Representations**. *NIPS Workshop on Learning Semantics*, 2014.
13. Thang Nguyen, [Yuening Hu](#), and [Jordan Boyd-Graber](#). **Evaluating Regularized Anchor Words**. *NIPS Workshop on Topic Models: Computation, Application, and Evaluation*, 2013.
14. [Yuening Hu](#), [Ke Zhai](#), Vlad Edelman, and [Jordan Boyd-Graber](#). **Topic Models for Translation Domain Adaptation**. *NIPS Workshop on Topic Models: Computation, Application, and Evaluation*, 2013.
15. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), Jonathan Chang, and Philip Resnik. **Tree-Based Label Dependency Topic Models**. *NIPS Workshop on Topic Models: Computation, Application, and Evaluation*, 2013.
16. [Yuening Hu](#) and [Jordan Boyd-Graber](#). **Suggesting Constraints for Interactive Topic Modeling**. *ICML Workshop on Machine Learning in Human Computation and Crowdsourcing*, 2012.
17. [Yuening Hu](#) and [Jordan Boyd-Graber](#). **Bayesian Hierarchical Clustering with Beta Coalescents**. *Mid-Atlantic Student Colloquium on Speech, Language, and Learning*, 2012.
18. [Ke Zhai](#) and [Jordan Boyd-Graber](#). **Online Topic Model with Infinite Vocabulary**. *Mid-Atlantic Student Colloquium on Speech, Language, and Learning*, 2012.
19. [Viet-An Nguyen](#), [Jordan Boyd-Graber](#), and Philip Resnik. **"I Want to Talk About, Again, My Record On Energy ...": Modeling Topic Control in Conversations using Speaker-centric Nonparametric Topic Models**. *Mid-Atlantic Student Colloquium on Speech, Language, and Learning*, 2012.
20. Clay Templeton, Travis Brown, Sayan Battacharyya, and [Jordan Boyd-Graber](#). **Mining the Dispatch under Supervision: Using Casualty Counts to Guide Topics from the Richmond Daily Dispatch Corpus**. *Chicago Colloquium on Digital Humanities and Computer Science*, 2011, 7 pages.
21. [Jordan Boyd-Graber](#). **Linguistic Resource Creation in a Web 2.0 World**. *NSF Workshop on Collaborative Annotation*, 2011, 7 pages.
22. Pranav Anand, Joseph King, [Jordan Boyd-Graber](#), Earl Wagner, Craig Martell, Douglas W. Oard, and Philip Resnik. **Believe Me: We Can Do This!**. *The AAAI 2011 workshop on Computational Models of Natural Argument*, 2011, 5 pages.
23. [Brianna Satinoff](#) and [Jordan Boyd-Graber](#). **Trivial Classification: What features do humans use for classification?**. *Workshop on Crowdsourcing Technologies for Language and Cognition Studies*, 2011.
24. Nitin Madnani, [Jordan Boyd-Graber](#), and Philip Resnik. **Measuring Transitivity Using Untrained Annotators**. *Creating Speech and Language Data With Amazon's Mechanical Turk*, 2010, 6 pages.
25. Sonya S. Nikolova, [Jordan Boyd-Graber](#), and Perry Cook. **The Design of ViVA: A Mixed-initiative Visual Vocabulary for Aphasia**. *Proceedings of the 27th international conference extended abstracts on Human factors in computing systems*, 2009, 6 pages.
26. Jonathan Chang, [Jordan Boyd-Graber](#), and David M. Blei. **Discovering social networks from free text**. *3rd Annual Machine Learning Symposium*, 2008.
27. [Jordan Boyd-Graber](#) and David M. Blei. **Multilingual Topic Models**. *NIPS Workshop on Unsupervised Latent Variable Models*, 2008.
28. [Jordan Boyd-Graber](#) and David M. Blei. **PUTOP: Turning Predominant Senses into a Topic Model for WSD**. *4th International Workshop on Semantic Evaluations*, 2007, 5 pages.

## Contracts and Grants

### Active Funding

**CAREER: Human-Computer Cooperation for Word-by-Word Question Answering** 2/2017–1/2022 (NSF)

**Investigators:** Jordan Boyd-Graber PI

**Award:** \$500,000 (Share: \$500,000)

**CHS: Medium: Hyperlocal and Hypertemporal Information in Mass Emergencies Events: Next Generation Crisis Informatics Data Collection & Analytics** 8/2016–8/2020

(NSF)

**Investigators:** Ken Anderson PI, Leysia Palen CO-PI, and Jordan Boyd-Graber CO-PI

**Award:** \$1,200,000 (Share: \$300,000)

**eTASC: Empirical Evidence for a Theoretical Approach to Semantic Components** 12/2015–11/2018

(DTRA)

**Investigators:** Martha Palmer (PI), Laura Michaelis (CO-PI) and Jordan Boyd-Graber (CO-PI)

**Award:** \$1,250,000 (Share: \$200,000)

**Collaboration:** Brandeis, Princeton, Stanford

**Temporal Relation Discovery for Clinical Text** 9/2015–9/2018 (NIH)

**Investigators:** Martha Palmer (PI) and Jordan Boyd-Graber (CO-PI)

**Award:** \$531,328 (Share: \$76,896)

**Collaboration:** Harvard, University of Alabama (Only Colorado portion shown)

**Multilingual Interactive Topic Modeling** 8/2015–7/2019 (DARPA LORELEI)

**Investigators:** Jordan Boyd-Graber (PI) and Mans Hulden (CO-PI)

**Award:** \$426,654 (Share: \$325,000)

**Collaboration:** Rayethon BBN (prime) with University of Maryland, Johns Hopkins University, and University of Washington (only Colorado portion shown)

**Scaling Insight into Science: Assessing the value and effectiveness of machine assisted classification within a statistical system** 8/2014–7/2017 (NSF)

**Investigators:** Jordan Boyd-Graber (PI)

**Award:** \$195,000 (Share: \$195,000)

**Collaboration:** University of Chicago and American Institutes for Research (only Colorado portion shown)

**Closing the User-Model Loop for Understanding Topics in Large Document Collections**<sup>1</sup> 8/2014–7/2018 (NSF)

**Investigators:** Jordan Boyd-Graber (PI) and Leah Findlater (CO-PI)

**Award:** \$650,000 (Share: \$325,000)

**Collaboration:** Brigham Young University and University of Maryland (only Maryland portion shown)

**Bayesian Thinking on Your Feet—Embedding Generative Models in Reinforcement Learning for Sequentially Revealed Data** 8/2013–7/2016 (NSF)

**Investigators:** Jordan Boyd-Graber (PI) and Hal Daumé III (CO-PI)

**Award:** \$500,000 (Share: \$250,000)

**Collaboration:** Grant located at University of Maryland

### Completed Funding

**Sentiment Analysis in Social Media: Political Spin and Cultural Biases** 8/2013–8/2014 (CASL)

**Investigators:** Philip Resnik PI and Jordan Boyd-Graber CO-PI

**Award:** \$100,000 (Share: \$50,000)

**Cross-Language Bayesian Models for Web-Scale Text Analysis** 9/2009–8/2014 (NSF)

**Investigators:** Jimmy Lin (PI), Philip Resnik (CO-PI), Jordan Boyd-Graber<sup>2</sup> (CO-PI)

**Award:** \$350,000 (Share: \$175,000)

**Language Evidence for Social Goals** 8/2009–10/2012 (IARPA)

**Investigators:** Philip Resnik (PI), Pranav Anand (CO-PI), Jordan Boyd-Graber (CO-PI), Deborah Cai (CO-PI), Craig Martell (CO-PI), Doug Oard (CO-PI), Marilyn Walker (CO-PI)

**Award:** \$1,454,439 (Share: \$100,000)

**Center for Language and Cultural Analysis** 9/2009–8/2012 (ARL)

<sup>1</sup>After I moved to Colorado, Leah Findlater assumed the role of PI to enable a new subcontract to Colorado; the original grant as awarded is provided here.

<sup>2</sup>I wrote this grant while a postdoc working with Philip Resnik; the vast majority of the text and the entirety of the scientific ideas were my own. However, I could not serve as PI while still a postdoc. I was added to the grant as PI after it was awarded and served as sole research advisor to the students funded by the grant while the other PIs were both on sabbatical.

**Investigators:** Amy Weinberg (PI), Jordan Boyd-Graber (CO-PI), Michele Gelfand (CO-PI), Philip Resnik (CO-PI, later PI)

**Award:** \$ 735,050 (Share: \$100,000)

**Advanced Open Source Exploitation Models**

4/2011–12/2011 (*Lockheed Martin*)

**Investigators:** Philip Resnik (PI), Jordan Boyd-Graber (CO-PI)

**Award:** \$60,000 (Share: \$30,000)

**Social Media Scanning**

5/2011–12/2011 (*Optimal Solutions Group*)

**Investigators:** Philip Resnik (PI), Jordan Boyd-Graber (CO-PI)

**Award:** \$29,849 (Share: \$14,925)

**Declined Funding**

Since joining CU

**CHS: Medium: The Hyperlocalities and Hypertemporalities of Mass Emergency Events: Next Generation Crisis Informatics Data Collection & Analytics**

(NSF)

9/2015–8/2019

**Investigators:** Ken Anderson (PI), Leysia Palen (CO-PI), Jordan Boyd-Graber (CO-PI)

**Award:** \$1,200,000 (Share: \$300,000)

**RI: Medium: Collaborative Research: Discovering Hierarchies that Make Sense of Massive Data: Scalable Inference of Nonparametric Trees**

(NSF)

8/2015–7/2019

**Investigators:** Jordan Boyd-Graber (PI)

**Award:** \$600,000 (Share: \$600,000)

**Collaboration:** University of Texas (only Colorado portion shown)

**Predicting Betrayal in Online Games**

9/2015–8/2016 (*Google*)

**Investigators:** Jordan Boyd-Graber (PI)

**Award:** \$55,000 (Share: \$55,000)

**DIP: Collaborative Research: OPERA: Open Education Resource Assessments**

1/2015–5/2018 (NSF)

**Investigators:** Tammy Sumner (PI), Jordan Boyd-Graber (CO-PI), Heather Leary (CO-PI)

**Award:** \$699,438 (Share: \$233,146)

**Collaboration:** Utah State (only Colorado portion shown)

## Teaching, Mentoring and Advising

### Courses Taught

**CSCI 3022: Introduction to Data Science Algorithms**

100 students

*Colorado, Fall 2016*

**CSCI 5622: Machine Learning**

104 students

*Colorado, Fall 2015*

**CSCI 5622: Machine Learning**

58 students

*Colorado, Spring 2015*

**CSCI/LING 5832: Natural Language Processing**

32 students

*Colorado, Fall 2014*

**INST 737: Digging into Data**

29 students

*UMD, Spring 2014*

**CMSC/LING 723 / INST 735: Computational Linguistics I**

45 students

*UMD, Fall 2013*

**LING 848B / CMSC 828B: Bayesian Nonparametrics**

15 students

*UMD, Spring 2013*

**INST 737: Digging into Data**

30 students

*UMD, Spring 2013*

**LBSC 690: Introduction to Information Technology**

30 students

*UMD, Fall 2012*

**INST728C / CMSC 773 / LING 773: Computational Linguistics II**

11 Students

*UMD, Spring 2012*

**LBSC 690: Introduction to Information Technology**

30 students

*UMD, Fall 2011*

**INFM 718G: Web Scale Information Processing Applications**

12 students

*UMD, Spring 2011*



**LBSC 690: Introduction to Information Technology**

30 students

UMD, Fall 2010

**COS/LIN 280: Computational Linguistics**

40 students

Princeton, Fall 2008

**Course or Curriculum Development**

- New offering of CSCI 5622: *Machine Learning* (Spring / Fall 2015) as a flipped classroom
- Significant revisions to LBSC 690: *Information Technology* (Fall 2012)
- Chair of committee developing new undergraduate Information Science program at Universities at Shady Grove for University of Maryland (2011-2013)
- Developed new course INST 737: *Digging into Data* (Spring 2013), and recorded lectures for “flipped” classroom in 2014.
- Redesigned both elements of Computational Linguistics I-II sequence (2012 and 2013), and created a “flipped” classroom in 2013 for Computational Linguistics I.

**Guest lectures**

- 2010, CMSC 726: Topic Models
- 2011, LING 773: Topic Models
- 2012, CMSC 421: Topic Models
- 2012, CMSC 726: Topic Models
- 2015, CSCI 5832: Topic Models
- 2016, CSCI 6000: Machine Learning Research
- 2016, CSCI 7000 (Data Science Team): Topic Models as Features

**Advising: Research Direction (Undergraduate)**

1. Henrik Larsen: Verb prediction
2. Davis Yoshida: Active feature solicitation for question answering
3. Stephanie Hwa: Vector word representations for named entities in question answering
4. Danny Bouwman: Crowdsourced coreference annotation
5. Kenrick Kin, Joshua Lee, Lester Mackey: Assistive vocabulary devices for people with aphasia

**Advising: Research Direction (Masters)****Chair or Co-Chair**

1. You Lu (CSCI, 2016–2017): Task-based Evaluation of topic models
2. Alison Smith (UMD CMSC, 2011–2013): Evaluating Interfaces for Interactive Topic Modeling [First position: Decisive Analytics]
3. Brianna Satinoff (UMD CMSC, 2009–2011): Incremental Models for Text Classification [First position: Wellpoint]

**On Committee**

1. Jordan Hoskins (German, 2015)
2. Bradley Skaggs (UMD CMSC, 2011) [First position: US Government]

**Doctoral Students****Chair or Co-chair**

1. Pedro Rodriguez (CSCI, 2015–): Distributed Machine Learning
2. Shudong Hao (CSCI, 2015–): Interactive Multilingual Topic Modeling
3. Fenfei Guo (CSCI, 2015–): Interactive Embedding Learning
4. Forough Poursabzi-Sangdeh (CSCI, 2014–): Active Labeling with Topic Models
5. Alvin Grissom II (CSCI, 2012–; PhD expected 2017): Reinforcement Learning for Feature-wise Language Tasks [First position: Ursinus College, Assistant Professor]
6. Kim Glasgow<sup>3</sup> (UMD iSchool 2011–2014): Social Action in Social Media
7. Thang Nguyen (UMD CMSC, 2012–; PhD expected 2017): Anchor-Based Topic Inference
8. Mohit Iyyer (UMD CMSC, 2012–; PhD expected 2017): Deep Learning for Question Answering
9. He He (UMD CMSC: 2011–2016): Algorithms that Trade-Off Speed and Accuracy [First position: Stanford University, Postdoc with Percy Liang]
10. Viet-An Nguyen (UMD CMSC, 2010–2015): Detecting Influence in Text [First position: Facebook Data Science]
11. Ke Zhai (UMD CMSC, 2009–2014): Large Scale Bayesian Inference [First position: Yahoo! Research]
12. Yuening Hu (UMD CMSC: 2009–2014): Interactive Topic Modeling [First position: Yahoo! Research]

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<sup>3</sup>now advised by Yla Tausczik

## On committee

1. Nicholas Dronen (CSCI)
2. Bill Foland (CSCI)
3. Sam Way (CSCI)
4. Shweta Bhandare (CSCI)
5. Nicole Beckage (CSCI)
6. Amir Ghasemianlangroodi (CSCI)
7. Brett Roads (CSCI)
8. Abbie Jacobs (CSCI)
9. Md Arafat Sultan (CSCI, 2016) [First position: IBM]
10. Ben London (UMD CMSC, 2014) [First position: Amazon]
11. Irene Eleta (UMD INFO, 2014) [First position: European Commission]
12. Kevin Dayaratna (UMD STAT, 2014) [First position: Heritage Foundation]
13. Jiarong Jiang (UMD CMSC, 2014) [First position: Two Sigma Investments]
14. Jagadeesh Jagarlamudi (UMD CMSC, 2013) [First position: IBM Research]
15. Amit Goyal (UMD CMSC, 2013) [First position: Yahoo!]
16. Piyush Rai (Utah CMSC, 2012) [First position: University of Texas]
17. Arvind Agarwal (UMD CMSC, 2012) [First position: Xerox Research]
18. Elena Zheleva (UMD CMSC, 2011) [First position: Living Social]
19. Asad Sayeed (UMD CMSC, 2011) [First position: Universität des Saarlandes]

## Professional Service

### Conference Reviewing

- Program Committee *2014 Workshop on Language Technologies and Computational Social Science*
- Program Committee *Neural Information Processing Systems*: 2014, 2013, 2012, 2011, 2010, 2009
- Program Committee *Association for Computational Linguistics*: 2014, 2012, 2011, 2010
- Program Committee *Empirical Methods in Natural Language Processing*: 2014, 2013, 2012, 2011, 2008
- Program Committee *International Conference of Machine Learning*: 2014, 2013, 2012, 2011, 2010, 2009
- Program Committee *International Conference on the Web and Social Media*: 2014
- Program Committee *World Wide Web Conference*: 2014
- Program Committee *AISTATS*: 2012, 2011
- Program Committee *North American Association for Computational Linguistics*: 2012
- Program Committee *NIPS 2010 Workshop on Computational Social Science and the Wisdom of Crowds*
- Program Committee *NAACL 2010 Workshop on Creating Speech and Text Language Data With Amazon's Mechanical Turk*
- Reviewer for *COLING 2010*
- Program Committee *Global WordNet Association Conference*: 2010, 2008, 2006
- Assistant Reviewer for *UAI 2007*
- Reviewer, *Works in Progress 2006 SIGCHI*

### Reviewing and Editing for Journals

- Reviewer for *Journal of AI Research*: 2016
- Reviewer for *International Journal on Digital Libraries*: 2016
- Reviewer for *Machine Learning Journal*: 2014
- Reviewer for *Transactions of the Association of Computational Linguistics*: 2011,2012,2012,2013,2013,2013,2014
- Reviewer for *IEEE Transactions on Pattern Analysis and Machine Intelligence*: 2013
- Reviewer for *Computational Linguistics*: 2013
- Reviewer for *Scientometrics*: 2012
- Reviewer for *Information Visualization*: 2012
- Reviewer for *Transactions on Knowledge Discovery from Data*: 2011
- Reviewer for *Annals of Applied Statistics*: 2011
- Reviewer for *Journal of Machine Learning Research*: 2011,2012
- Reviewer for *Elsivier Computer Speech and Language*: 2007

### Reviewing for Books

- Reviewer for *R Programming and Data Science*, Chapman and Hall

### Reviewing activities for agencies

- NSF IIS Review Panel (2017)

- NSERC External Review (2017)
- NSF IIS External Review (2015)
- NSF IIS Review Panel (2015)
- NSF External Review (2014)
- NSF IIS Review Panel (2012)
- NSF BIGDATA Review Panel (2012)

#### Other unpaid services to local, state, and federal agencies

- Consultant for *Interactive Topic Modeling*, National Institute of Food and Agriculture (2013)
- Consultant for *Interactive Topic Modeling*, National Institutes for Health (2010)
- Collaboration on *Dirichlet Process Protein Clustering*, National Institutes for Health (2012)
- Collaboration on *Nonparametric Beta Coalescent Clustering*, US Department of Agriculture (2013)

#### Leadership in Professional Organizations

- **Area Chair**, *ICML 2017*
- **Area Chair** for Machine Learning, *EMNLP 2017*
- **Tutorial Co-Chair**, *ACL 2017*
- **Area Chair** for Machine Learning, *EMNLP 2015*
- **Area Chair**, *ICML 2015*
- **Area Chair** for Document Classification and Topic Clustering, *NAACL 2015*
- **Co-organizer** for *ACL 2014 Student Research Workshop*
- **Co-organizer** for *NIPS 2013 Workshop on Topic Models*
- Computational Committee *North American Computational Linguistics Olympiad 2012-2014*
- **Area Chair** for Document Classification and Topic Clustering, *NAACL 2012*
- **Co-organizer** for *NIPS 2009 Workshop on Topic Model Applications: Text and Beyond*

#### Paid consultancies

- Consultant: Norwegian Research Council, 2014
- Consultant: Barquin International, 2013-2014
- Consultant: New Brand Analytics, 2012-2014

#### Institutional Service

##### Departmental Service

*Computer Science, Colorado*

- Member: Graduate Committee (2014-)
- Member: Search Committee (Machine Learning, 2014-2015)

##### Departmental Service

*Institute for Advanced Computer Studies, UMD*

- Member: Appointments and Promotion (2012-2013)
- Coordinator: Computational Linguistics and Information Processing Lab Colloquium (2010-2012)
- Data Czar: Computational Linguistics and Information Processing Lab (2011-2014)

##### College Service

*College of information Studies, UMD*

- Chair: College of Information Studies Undergraduate Education Committee (2011-2013)
- Member: College of Information Studies Undergraduate Education Committee (2011-2014)
- Secretary: College of Information Studies Assembly (2011-2012)
- Member: College of Information Studies Programs, Courses, Curriculum Committee (2011-2013)
- Member: College of Information Studies Research Committee (2010-2013)

##### College Service

*Engineering and Applied Science, Colorado*

- Yellowshirt Interviewer, 2015

##### University Service

UMD

- Faculty Advisor: cu Trivia Buffs
  - Tournament Director: Rocky Mountain Region Academic Quiz Tournament 2017 (College)
  - Tournament Director: Rocky Mountain Region Academic Quiz Tournament 2016 (College)
  - Tournament Director: Colorado State Academic Quiz Tournament 2016 (High School)
  - Tournament Director: Colorado State Academic Quiz Tournament 2015 (High School)
- Faculty Advisor: Maryland Academic Quiz Team (UMD, 2010-2014)

## External Visibility

### Invited Talks

1. **Machine Learning Shouldn't be a Black Box:** Ludwig Maximilian Universität, 2016 (München, Germany); ECIR Keynote, 2016 (Padua, Italy); Cambridge Statistics Colloquium, 2016 (Cambridge, England); Royal Institute of Technology (Stockholm, Sweden), 2016; Carnegie Mellon University Language Technology Institute Colloquium (Pittsburgh, PA); University of Maryland, 2016 (College Park, MD)
2. **Interactive Topic Modeling and The US Tea Party:** New Frontiers of Automated Content Analysis in the Social Sciences, 2015 (Zürich, CH)
3. **Thinking on your Feet: Reinforcement Learning for Incremental Language Tasks:** Colorado School of Mines, 2014 (Golden, CO); Harvey Mudd College, 2014 (Claremont, CA); California Institute of Technology, 2014 (Pasadena, CA); Front Range NLP (Boulder, CO); EECS Colloquium, Colorado School of Mines, 2014 (Golden, CO); Brigham Young University, 2014 (Provo, UT); Peking University, 2014 (Beijing, PRC); Darmstadt University, 2014 (Darmstadt, Germany); Hong Kong University of Science and Technology, 2014 (Hong Kong); Cornell University, 2015 (Ithaca, NY); Yandex School of Data Science (Berlin, Germany)
4. **Big Data Analysis with Topic Models: Human Interaction, Streaming Computation, and Social Science Applications:** University of Colorado Boulder Computer Science Colloquium, 2013 (Boulder, CO); Yandex Machine Learning Conference, 2013 (**Invited Keynote**, Moscow, Russia); DC NLP Meetup, 2014 (Washington, DC); Yahoo! Labs, 2014 (New York, NY); Northwestern University (Evanston, IL); Renmin University, 2014 (Beijing, PRC); Tsinghua University, 2014 (Beijing, PRC); University of Maryland, 2017 (College Park, MD)
5. **Incorporating Human Knowledge and Insights into Probabilistic Models of Text:** Brigham Young University Department of Computer Science Colloquium, 2012 (Provo, UT)
6. **Besting the Quiz Master: Crowdsourcing Incremental Classification Games:** Rutgers University, 2012 (New Brunswick, NJ); Brigham Young University, 2012 (Provo, UT)
7. **Making Topic Models More Human(e):** Colorado University, 2012 (Boulder, CO); University of Maryland Institute for Technology and Humanities, 2012 (College Park, MD)
8. **When Topic Models Go Bad: Diagnosing and Improving Models for Exploring Large Corpora:** Johns Hopkins University, 2011 (Baltimore, MD); Rutgers University, 2011 (New Brunswick, NJ)
9. **Inference and Validation of Probabilistic Models of Language in the Cloud:** UMD Winter Storm, 2011 (College Park, MD)
10. **Interactive Topic Models:** Harvard University's New Directions in Text Analysis Symposium, 2011 (Cambridge, MA); Princeton University, 2011 (Princeton, NJ); Maryland Institute for Technology and the Humanities: Topic Modeling and the Humanities Workshop, 2012 (College Park, MD)
11. **Putting Words Together: Crowdsourcing Data Collection for Lexical Similarity and Topical Coherence:** University of Massachusetts, 2010 (Amherst, Massachusetts)
12. **Topic Models, Mechanical Turk, and WordNet:** Harvard University, 2010 (Cambridge, MA)
13. **Topic Models and Hierarchical Models:** Johns Hopkins Summer Workshop for SMT, 2010 (Baltimore, MD)
14. **Linguistic Extensions to Topic Models:** University of Massachusetts, 2009 (Amherst, Massachusetts); Center for Communications Research, 2009 (Princeton, NJ); John Hopkins Human Language Technologies Center of Excellence, 2009 (Baltimore, MD); Columbia University, 2009 (New York, NY)

### Press Coverage

1. Inderjeet Mani. **When robots read books.** *Aeon*, 2016.
2. Luke Dormehl. **Like parents from the 1950s, AI still can't understand comics. Here's why.** *Digital Trends*, 2016.
3. Katherine Gorman. **Automatic Translation and t-SNE.** *Talking Machines*, 2016.
4. Christopher Chabris. **Game On: The Psychology of Betrayal.** *Wall Street Journal*, 2016.
5. Melissa Dahl. **Should you worry about people who are too polite?.** *CNN*, 2015.
6. Emily Adams. **Professor's Quiz Bowl Robot Goes Head-To-Head With Humans.** *Colorado Computer Science Newsletter*, 2015.
7. Morgan Eichensehr. **STUDY: Changes in language, tone could reveal impending betrayal.** *Diamondback*, 2015.
8. Lexie Schapitl. **UMD researchers' computer beats 'Jeopardy!' star Ken Jennings at trivia.** *Diamondback*, 2015.
9. Leigh Weingus. **What You Should Know About Really Polite People.** *Huffington Post*, 2015.
10. Melissa Dahl. **Here's a Good Reason to Be Wary of Overly Polite People.** *New York Magazine*, 2015.



11. Nathan Collins. **Detecting a Coming Betrayal.** *Pacific Standard*, 2015.
12. Bill Steele. **Language analysis predicts a coming betrayal.** *Phys.org*, 2015.
13. Rachel Ehrenberg. **A few key signs betray betrayal.** *Science News*, 2015.
14. Liam Farrell. **Question-Answering System Built by UMD, UC Boulder Bests Ken Jennings.** *Terp*, 2015.
15. **Question: Which language scientists designed first competitive quiz bowl playing NLP system?.** *UMD Language Science Newsletter*, 2015.
16. Melissa Brachfeld. **Computerized Question-Answering System Built by UMD, UC Boulder Bests "Jeopardy!" Champion.** *UMIACS*, 2015.
17. Marcus Smith. **Prof. Ringger and Natural Language Processing.** *Thinking Aloud*, 2014.