





## Christopher Manning

Thomas M. Siebel Professor of Machine Learning, Professor of Linguistics and of Computer Science

 NIH Biosketch available Online

 Curriculum Vitae available Online

 Resume available Online

### CONTACT INFORMATION

#### • Administrator

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### Bio

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#### BIO

Christopher Manning is a professor of computer science and linguistics at Stanford University, Director of the Stanford Artificial Intelligence Laboratory, and Co-director of the Stanford Human-Centered Artificial Intelligence Institute. He works on software that can intelligently process, understand, and generate human language material. He is a leader in applying Deep Learning to Natural Language Processing, including exploring Tree Recursive Neural Networks, neural network dependency parsing, the GloVe model of word vectors, neural machine translation, question answering, and deep language understanding. He also focuses on computational linguistic approaches to parsing, natural language inference and multilingual language processing, including being a principal developer of Stanford Dependencies and Universal Dependencies. Manning is an ACM Fellow, a AAAI Fellow, an ACL Fellow, and a Past President of ACL. He has coauthored leading textbooks on statistical natural language processing and information retrieval. He is the founder of the Stanford NLP group (@stanfordnlp) and manages development of the Stanford CoreNLP software.

#### ACADEMIC APPOINTMENTS

- Professor, Linguistics
- Professor, Computer Science
- Member, Bio-X
- Associate Director, Institute for Human-Centered Artificial Intelligence (HAI)

#### ADMINISTRATIVE APPOINTMENTS

- Associate Director, Human-Centered Artificial Intelligence Initiative (HAI), (2018- present)
- Director, Stanford Artificial Intelligence Laboratory, (2018- present)
- Faculty Director, SAIL-JD AI Research Initiative, (2017- present)

#### HONORS AND AWARDS

- Fellow, ACL
- Fellow, AAAI
- Fellow, ACM

## PROGRAM AFFILIATIONS

- Symbolic Systems Program

## PROFESSIONAL EDUCATION

- PhD, Stanford University (1994)

## LINKS

- Stanford NLP Group: <https://nlp.stanford.edu/>
- Personal home page: <https://nlp.stanford.edu/~manning/>
- Google Scholar page: <https://scholar.google.com/citations?user=1zmDODwAAAAJ>

## Teaching

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### COURSES

#### 2021-22

- Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284 (Win)
- Transformers United: CS 25 (Aut)

#### 2020-21

- Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284, SYMSYS 195N (Win)

#### 2019-20

- Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284 (Win)

#### 2018-19

- Information Retrieval and Web Search: CS 276, LINGUIST 286 (Spr)
- Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284 (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Giovanni Campagna

#### Orals Evaluator

Giovanni Campagna

#### Doctoral Dissertation Advisor (AC)

Matt Lamm, Ashwin Pradeep Paranjape

#### Doctoral Dissertation Co-Advisor (AC)

Bryan Cai

#### Master's Program Advisor

Kelly He, Anthony Le, Nate Lee, Lucy Lu, Emma Mclean, Xiaoyuan NI, Viet Nguyen, Candice Penelton, Griffin Young, Jason Zheng

#### Doctoral (Program)

Anna Goldie, John Hewitt, Eric Mitchell, Shikhar murty

## Publications

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### PUBLICATIONS

- **Biomedical and clinical English model packages for the Stanza Python NLP library.** *Journal of the American Medical Informatics Association : JAMIA*  
Zhang, Y., Zhang, Y., Qi, P., Manning, C. D., Langlotz, C. P.  
2021
- **Syn-QG: Syntactic and Shallow Semantic Rules for Question Generation**  
Dhole, K. D., Manning, C. D., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2020: 752–65
- **Stanza: A Python Natural Language Processing Toolkit for Many Human Languages**  
Qi, P., Zhang, Y., Zhang, Y., Bolton, J., Manning, C. D., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2020: 101–8
- **Emergent linguistic structure in artificial neural networks trained by self-supervision.** *Proceedings of the National Academy of Sciences of the United States of America*  
Manning, C. D., Clark, K. n., Hewitt, J. n., Khandelwal, U. n., Levy, O. n.  
2020
- **GQA: A New Dataset for Real-World Visual Reasoning and Compositional Question Answering** [visualreasoning.net](http://visualreasoning.net)  
Hudson, D. A., Manning, C. D., IEEE Comp Soc  
IEEE.2019: 6693–6702
- **What does BERT look at? An Analysis of BERT's Attention**  
Clark, K., Khandelwal, U., Levy, O., Manning, C. D., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2019: 276–86
- **Learning by Abstraction: The Neural State Machine**  
Hudson, D. A., Manning, C. D., Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019
- **BAM! Born-Again Multi-Task Networks for Natural Language Understanding**  
Clark, K., Minh-Thang Luong, Khandelwal, U., Manning, C. D., Le, Q. V., ACL, Korhonen, A., Traum, D., Marquez, L.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2019: 5931–37
- **Simpler but More Accurate Semantic Dependency Parsing**  
Dozat, T., Manning, C. D., Gurevych, Miyao, Y.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2018: 484–90
- **Arc-swift: A Novel Transition System for Dependency Parsing**  
Qi, P., Manning, C. D., Barzilay, R., Kan, M. Y.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2017: 110–17
- **Get To The Point: Summarization with Pointer-Generator Networks**  
See, A., Liu, P. J., Manning, C. D., Barzilay, R., Kan, M. Y.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2017: 1073–83
- **Naturalizing a Programming Language via Interactive Learning**  
Wang, S. I., Ginn, S., Liang, P., Manning, C. D., Barzilay, R., Kan, M. Y.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2017: 929–38
- **A comparison of Named-Entity Disambiguation and Word Sense Disambiguation**  
Chang, A. X., Spitkovsky, V., Manning, C. D., Agirre, E., Calzolari, N., Choukri, K., Declerck, T., Goggi, S., Grobelnik, M., Maegaard, B., Mariani, J., Mazo, H., Moreno, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2016: 860–67
- **Improving Coreference Resolution by Learning Entity-Level Distributed Representations**  
Clark, K., Manning, C. D., Erk, K., Smith, N. A.

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ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 643–53

- **Achieving Open Vocabulary Neural Machine Translation with Hybrid Word-Character Models**  
Minh-Thang Luong, Manning, C. D., Erk, K., Smith, N. A.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1054–63
- **A Fast Unified Model for Parsing and Sentence Understanding**  
Bowman, S. R., Gauthier, J., Rastogi, A., Gupta, R., Manning, C. D., Potts, C., Erk, K., Smith, N. A.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1466–77
- **Learning Language Games through Interaction**  
Wang, S. I., Liang, P., Manning, C. D., Erk, K., Smith, N. A.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 2368–78
- **Understanding Human Language: Can NLP and Deep Learning Help?**  
Manning, C., Assoc Comp Machinery  
ASSOC COMPUTING MACHINERY.2016: 1
- **Combining Natural Logic and Shallow Reasoning for Question Answering**  
Angeli, G., Nayak, N., Manning, C. D., Erk, K., Smith, N. A.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 442–52
- **A Thorough Examination of the CNN/Daily Mail Reading Comprehension Task**  
Chen, D., Bolton, J., Manning, C. D., Erk, K., Smith, N. A.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 2358–67
- **Universal Dependencies v1: A Multilingual Treebank Collection**  
Nivre, J., de Marneffe, M., Ginter, F., Goldberg, Y., Hajic, J., Manning, C. D., McDonald, R., Petrov, S., Pyysalo, S., Silveira, N., Tsarfaty, R., Zeman, D., Calzolari, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2016: 1659–66
- **Enhanced English Universal Dependencies: An Improved Representation for Natural Language Understanding Tasks**  
Schuster, S., Manning, C. D., Calzolari, N., Choukri, K., Declerck, T., Goggi, S., Grobelnik, M., Maegaard, B., Mariani, J., Mazo, H., Moreno, A., Odijk, J., Piperidis, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2016: 2371–78
- **Computational Linguistics and Deep Learning** *COMPUTATIONAL LINGUISTICS*  
Manning, C. D.  
2015; 41 (4): 701-707
- **Natural Language Translation at the Intersection of AI and HCI** *COMMUNICATIONS OF THE ACM*  
Green, S., Heer, J., Manning, C. D.  
2015; 58 (9): 47-54
- **Advances in natural language processing** *SCIENCE*  
Hirschberg, J., Manning, C. D.  
2015; 349 (6245): 261-266
- **Text to 3D Scene Generation with Rich Lexical Grounding**  
Chang, A., Monroe, W., Savva, M., Potts, C., Manning, C. D., Zong, C., Strube, M.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2015: 53–62
- **Forum77: An Analysis of an Online Health Forum Dedicated to Addiction Recovery**  
MacLean, D., Gupta, S., Lembke, A., Manning, C., Heer, J., ACM  
ASSOC COMPUTING MACHINERY.2015: 1511–26
- **Robust Subgraph Generation Improves Abstract Meaning Representation Parsing**  
Werling, K., Angeli, G., Manning, C. D., Zong, C., Strube, M.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2015: 982–91
- **Improved Semantic Representations From Tree-Structured Long Short-Term Memory Networks**

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- Tai, K., Socher, R., Manning, C. D., Zong, C., Strube, M.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2015: 1556–66
- **Leveraging Linguistic Structure For Open Domain Information Extraction**  
Angeli, G., Premkumar, M., Manning, C. D., Zong, C., Strube, M.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2015: 344–54
  - **On-the-Job Learning with Bayesian Decision Theory**  
Werling, K., Chaganty, A., Liang, P., Manning, C. D., Cortes, C., Lawrence, N. D., Lee, D. D., Sugiyama, M., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2015
  - **Entity-Centric Coreference Resolution with Model Stacking**  
Clark, K., Manning, C. D., Zong, C., Strube, M.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2015: 1405–15
  - **Induced lexico-syntactic patterns improve information extraction from online medical forums.** *Journal of the American Medical Informatics Association*  
Gupta, S., MacLean, D. L., Heer, J., Manning, C. D.  
2014; 21 (5): 902-909
  - **The Stanford CoreNLP Natural Language Processing Toolkit**  
Manning, C. D., Surdeanu, M., Bauer, J., Finkel, J., Bethard, S. J., McClosky, D., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2014: 55–60
  - **Natural Logic and Natural Language Inference** *COMPUTING MEANING, VOL 4*  
MacCartney, B., Manning, C. D., Bunt, H., Bos, J., Pulman, S.  
2014; 47: 129–47
  - **A Gold Standard Dependency Corpus for English**  
Silveira, N., Dozat, T., de Marneffe, M., Bowman, S. R., Connor, M., Bauer, J., Manning, C. D., Calzolari, N., Choukri, K., Declerck, T., Loftsson, H., Maegaard, B., Mariani, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2014: 2897–2904
  - **Event Extraction Using Distant Supervision**  
Reschke, K., Jankowiak, M., Surdeanu, M., Manning, C. D., Jurafsky, D., Calzolari, N., Choukri, K., Declerck, T., Loftsson, H., Maegaard, B., Mariani, J., Moreno, A., Odijk, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2014: 4527–31
  - **Universal Stanford Dependencies: A cross-linguistic typology**  
de Marneffe, M., Dozat, T., Silveira, N., Haverinen, K., Ginter, F., Nivre, J., Manning, C. D., Calzolari, N., Choukri, K., Declerck, T., Loftsson, H., Maegaard, B., Mariani, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2014: 4585–92
  - **Learning Distributed Representations for Structured Output Prediction**  
Srikumar, V., Manning, C. D., Ghahramani, Z., Welling, M., Cortes, C., Lawrence, N. D., Weinberger, K. Q.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2014
  - **Global Belief Recursive Neural Networks**  
Paulus, R., Socher, R., Manning, C. D., Ghahramani, Z., Welling, M., Cortes, C., Lawrence, N. D., Weinberger, K. Q.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2014
  - **Two Knives Cut Better Than One: Chinese Word Segmentation with Dual Decomposition**  
Wang, M., Voigt, R., Manning, C. D., Toutanova, K., Wu, H.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2014: 193–98
  - **Simple MAP Inference via Low-Rank Relaxations**  
Frostig, R., Wang, S., Liang, P., Manning, C. D., Ghahramani, Z., Welling, M., Cortes, C., Lawrence, N. D., Weinberger, K. Q.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2014
  - **Differentiating language usage through topic models** *POETICS*  
McFarland, D. A., Ramage, D., Chuang, J., Heer, J., Manning, C. D., Jurafsky, D.  
2013; 41 (6): 607-625

- **Parsing Models for Identifying Multiword Expressions** *COMPUTATIONAL LINGUISTICS*  
Green, S., de Marneffe, M., Manning, C. D.  
2013; 39 (1): 195-227
- **The Efficacy of Human Post-editing for Language Translation** *CHI*  
Green, S., Heer, J., Manning, C. D.  
2013
- **Learning a Product of Experts with Elitist Lasso.**  
Wang, M., Manning, Christopher, D.  
2013
- **Bilingual Word Embeddings for Phrase-Based Machine Translation**  
Zou, Will, Y., Socher, R., Cer, D., Manning, Christopher, D.  
2013
- **Effect of Nonlinear Deep Architecture in Sequence Labeling.**  
Wang, M., Manning, Christopher, D.  
2013
- **Recursive Deep Models for Semantic Compositionality Over a Sentiment Treebank**  
Socher, R., Perelygin, A., Wu, J., Chuang, J., Manning, C., Ng, A.  
2013
- **Zero-Shot Learning Through Cross-Modal Transfer**  
Socher, R., Ganjoo, M., Sridhar, H., Bastani, O., Manning, C., D., Ng, A., Y.  
2013
- **Named Entity Recognition with Bilingual Constraints.**  
Che, W., Wang, M., Manning, Christopher, D., Liu, T.  
2013
- **Effective Bilingual Constraints for Semi-supervised Learning of Named Entity Recognizers.**  
Wang, M., Che, W., Manning, Christopher, D.  
2013
- **Parsing With Compositional Vector Grammars**  
Socher, R., Bauer, J., Manning, Christopher, D., Ng, Andrew, Y.  
2013
- **Differentiating Language Usage through Topic Models Poetics** *Daniel A. McFarland, Daniel Ramage, Jason Chuang, Jeffrey Heer, and Christopher D. Manning*  
McFarland, Daniel, A., Ramage, D., Chuang, J., Heer, J., Manning, Christopher, D.  
2013
- **Fast and Adaptive Online Training of Feature-Rich Translation Models** *Proc. ACL*  
Green, S., Wang, S., Cer, D., Manning, C. D.  
2013
- **Joint Word Alignment and Bilingual Named Entity Recognition Using Dual Decomposition.**  
Wang, M., Che, W., Manning, Christopher, D.  
2013
- **Language-Independent Discriminative Parsing of Temporal Expressions**  
Angeli, G., Uszkoreit, J.  
2013
- **Philosophers are Mortal: Inferring the Truth of Unseen Facts.**  
Angeli, G., Manning, C.  
2013

- **Same Referent, Different Words: Unsupervised Mining of Opaque Coreferent Mentions.**  
Recasens, M., Can, M., Jurafsky, D.  
2013
- **Tradition and Modernity in 20th Century Chinese Poetry.**  
Voigt, R., Jurafsky, D.  
2013
- **Generating Recommendation Dialogs by Extracting Information from User Reviews.**  
Reschke, K., Vogel, A., Jurafsky, D.  
2013
- **Linguistic Models for Analyzing and Detecting Biased Language.**  
Recasens, M., Danescu-Niculescu-Mizil, C., Jurafsky, D.  
2013
- **A computational approach to politeness with application to social factors**  
Danescu-Niculescu-Mizil, C., Sudhof, M., Jurafsky, D., Leskovec, J., Potts, C.  
2013
- **Effect of Non-linear Deep Architecture in Sequence Labeling.**  
Wang, M., Manning, Christopher, D.  
2013
- **Semantic Parsing on Freebase from Question-Answer Pairs.**  
Berant, J., Chou, A., Frostig, R., Liang, P.  
2013
- **Learning Biological Processes with Global Constraints.**  
Scaria, A. T., Berant, J., Wang, M., Clark, P., Lewis, J., Harding, B., Manning, Christopher, D.  
2013
- **Parsing entire discourses as very long strings: Capturing topic continuity in grounded language learning.** *Transactions of the Association for Computational Linguistics*  
Luong, M., Frank, Michael, C., Johnson, M.  
2013; 3 (1): 315-323
- **Zero Shot Learning Through Cross-Modal Transfer.** *In Advances in Neural Information Processing Systems*  
Socher, R., Ganjoo, M., Manning, Christopher, D., Ng, Andrew, Y.  
2013; 26
- **The Life and Death of Discourse Entities: Identifying Singleton Mentions**  
Recasens, M., Marneffe, M. d., Potts, C.  
2013
- **Implicatures and Nested Beliefs in Approximate Decentralized-POMDPs.**  
Vogel, A., Potts, C., Jurafsky, D.  
2013
- **Learning New Facts From Knowledge Bases With Neural Tensor Networks and Semantic Word Vectors**  
Chen, D., Socher, R., Manning, Christopher, D., Ng, Andrew, Y.  
2013
- **Better Word Representations with Recursive Neural Networks for Morphology.**  
Luong, M., Socher, R., Manning, Christopher, D.  
2013
- **No country for old members: User lifecycle and linguistic change in online communities.**  
Danescu-Niculescu-Mizil, C., West, R., Jurafsky, D., Leskovec, J., Potts, C.  
2013

- **Breaking Out of Local Optima with Count Transforms and Model Recombination: A Study in Grammar Induction.**  
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.  
2013
- **Reasoning With Neural Tensor Networks For Knowledge Base Completion.** *In Advances in Neural Information Processing Systems*  
Socher, R., Chen, D., Manning, Christopher, D., Ng, Andrew, Y.  
2013; 26
- **Crowdsourcing and the Crisis-affected Population** *Information Retrieval*  
Munro, R.  
2013; 2 (16): 210-266
- **"Without the Clutter of Unimportant Words": Descriptive Keyphrases for Text Visualization** *ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION*  
Chuang, J., Manning, C. D., Heer, J.  
2012; 19 (3)
- **Combining joint models for biomedical event extraction** *Conference on BioNLP Shared Task*  
McClosky, D., Riedel, S., Surdeanu, M., McCallum, A., Manning, C. D.  
BIOMED CENTRAL LTD.2012
- **Did It Happen? The Pragmatic Complexity of Veridicality Assessment** *COMPUTATIONAL LINGUISTICS*  
de Marneffe, M., Manning, C. D., Potts, C.  
2012; 38 (2): 301-333
- **Termite: Visualization Techniques for Assessing Textual Topic Models** *International Working Conference on Advanced Visual Interfaces (AVI)*  
Chuang, J., Manning, C. D., Heer, J.  
ASSOC COMPUTING MACHINERY.2012: 74-77
- **Short message communications: users, topics, and in-language processing**  
Munro, R., Manning, C. D., ACM  
ASSOC COMPUTING MACHINERY.2012
- **Towards a Literary Machine Translation: The Role of Referential Cohesion**  
Voigt, R., Jurafsky, D.  
2012
- **Multi-instance Multi-label Learning for Relation Extraction**  
Surdeanu, M., Tibshirani, J., Nallapati, R., Manning, Christopher, D.  
2012
- **Learning Constraints for Consistent Timeline Extraction.**  
McClosky, D., Manning, Christopher, D.  
2012
- **SPEDE: Probabilistic Edit Distance Metrics for MT Evaluation.**  
Wang, M., Manning, Christopher, D.  
2012
- **A Comparison of Chinese Parsers for Stanford Dependencies**  
Che, W., Spitkovsky, Valentin, I., Liu, T.  
2012
- **Stanford's System for Parsing the English Web**  
McClosky, D., Che, W., Recasens, M., Wang, M., Socher, R., Manning, Christopher, D.  
2012
- **Improving Word Representations via Global Context and Multiple Word Prototypes.**  
Huang, Eric, H., Socher, R., Manning, Christopher, D., Ng, Andrew, Y.  
2012



- **Semantic Compositionality Through Recursive Matrix-Vector Spaces**  
Socher, R., Huval, B., Manning, Christopher, D., Ng, Andrew, Y.  
2012
- **Towards a Computational History of the ACL: 1980-2008.**  
Anderson, A., McFarland, D., Jurafsky, D.  
2012
- **Joint Entity and Event Coreference Resolution across Documents.**  
Lee, H., Recasens, M., Chang, A., Surdeanu, M., Jurafsky, D.  
2012
- **Entity Clustering Across Languages**  
Green, S., Andrews, N., Gormley, Matthew, R., Dredze, M., Manning, Christopher, D.  
2012
- **A Cross-Lingual Dictionary for English Wikipedia Concepts**  
Spitkovsky, Valentin, I., Chang, Angel, X.  
2012
- **Annotating Near-Identity from Coreference Disagreements.**  
Recasens, M., Martí, M., Antònia, Orasan, C.  
2012
- **Baselines and Bigrams: Simple, Good Sentiment and Topic Classification.**  
Wang, S., Manning, C.  
2012
- **Probabilistic Finite State Machines for Regression-based MT Evaluation.**  
Wang, M., Manning, Christopher, D.  
2012
- **Three Dependency-and-Boundary Models for Grammar Induction**  
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.  
2012
- **Automatic animacy classification**  
Bowman, S., Chopra, H.  
2012
- **Citation-based bootstrapping for large-scale author disambiguation** *Journal of the American Society for Information Science and Technology*  
Levin, M., Krawczyk, S., Bethard, S., Jurafsky, D.  
2012; 5 (63): 301-333
- **Coreference resolution: an empirical study based on SemEval-2010 shared Task 1** *Language Resources and Evaluation.*  
Màrquez, L., Recasens, M., Sapena, E.  
2012
- **Learning Attitudes and Attributes from Multi-Aspect Reviews** *In International Conference on Data Mining.*  
McAuley, Julian, J., Leskovec, J., Jurafsky, D.  
2012
- **Capitalization Cues Improve Dependency Grammar Induction.**  
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.  
2012
- **Without the clutter of unimportant words** *ACM Transactions on Computer-Human Interaction (TOCHI)*  
Chuang, J., Manning, Christopher, D., Heer, J.  
2012; 3 (19)

- **Stanford: Probabilistic Edit Distance Metrics for STS.**  
Wang, M., Cer, D.  
2012
- **A Computational Analysis of Style, Affect, and Imagery in Contemporary Poetry.**  
Kao, J., Jurafsky, D.  
2012
- **Bootstrapping Dependency Grammar Inducers from Incomplete Sentence Fragments via Austere Models**  
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.  
2012
- **Parsing Time: Learning to Interpret Time Expressions**  
Angeli, G., Manning, Christopher, D., Jurafsky, D.  
2012
- **He Said, She Said: Gender in the ACL Anthology**  
Vogel, A., Jurafsky, a. D.  
2012
- **SUTIME: A Library for Recognizing and Normalizing Time Expressions** *8th International Conference on Language Resources and Evaluation (LREC)*  
Chang, A. X., Manning, C. D.  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2012: 3735–3740
- **SUTIME: A Library for Recognizing and Normalizing Time Expressions.** *In Eighth International Conference on Language Resources and Evaluation (LREC 2012)*  
Chang, Angel, X., Manning, Christopher, D.  
2012
- **Convolutional-Recursive Deep Learning for 3D Object Classification.** *In Advances in Neural Information Processing Systems*  
Socher, R., Huval, B., Bhat, B., Manning, Christopher, D., Ng, Andrew, Y.  
2012; 25
- **Part-of-Speech Tagging from 97% to 100%: Is It Time for Some Linguistics?** *12th Annual Conference on Intelligent Text Processing and Computational Linguistics*  
Manning, C. D.  
SPRINGER-VERLAG BERLIN.2011: 171–189
- **Veridicality and utterance understanding**  
de Marneffe, M., Manning, C. D., Potts, C., IEEE Comp Soc  
IEEE COMPUTER SOC.2011: 430–37
- **Punctuation: Making a Point in Unsupervised Dependency Parsing**  
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.  
2011
- **Lateen EM: Unsupervised Training with Multiple Objectives, Applied to Dependency Grammar Induction.**  
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.  
2011
- **Stanford's Distantly-Supervised Slot-Filling System.**  
Surdeanu, M., Gupta, S., Bauer, J., McClosky, D., Chang, Angel, X., Spitkovsky, Valentin, I., Manning, Christopher, D.  
2011
- **Parsing Natural Scenes and Natural Language with Recursive Neural Networks.**  
Socher, R., Lin, C. C., Ng, Andrew, Y., Manning, Christopher, D.  
2011
- **Analyzing the Dynamics of Research by Extracting Key Aspects of Scientific Papers.**  
Gupta, S., Manning, Christopher, D.

2011

- **Model Combination for Event Extraction in BioNLP 2011**  
Riedel, S., McClosky, D., Surdeanu, M., McCallum, A., Manning, Christopher, D.  
2011
- **Stanford-UBC Entity Linking at TAC-KBP, Again**  
Chang, Angel, X., Spitzkovsky, Valentin, I., Agirre, E., Manning, Christopher, D.  
2011
- **Event Extraction as Dependency Parsing**  
McClosky, D., Surdeanu, M., Manning, C.  
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