Christopher Manning

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

 NIH Biosketch available Online  Curriculum Vitae available Online  Resume available Online

CONTACT INFORMATION
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Bio

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

COURSES

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)

2017-18
• Tensorflow for Deep Learning Research: CS 20 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Giovanni Campagna, Ranjay Krishna

Orals Evaluator
Ranjay Krishna, Kai Sheng Tai

Doctoral Dissertation Advisor (AC)
Matt Lamm, Ashwin Pradeep Paranjape, Abi See

Doctoral Dissertation Co-Advisor (AC)
Bryan Cai

Master’s Program Advisor
Kelly He, Grace Lam, Anthony Le, Nate Lee, Vincent Liu, Emma Mclean, Viet Nguyen, Candice Penelton, Jason Zheng

Postdoctoral Research Mentor
Antoine Bosselut

Doctoral (Program)
Anna Goldie, John Hewitt, Eric Mitchell, Abi See, Shikhar murty
Publications

PUBLICATIONS

- **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*
  2020

- **GQA: A New Dataset for Real-World Visual Reasoning and Compositional Question Answering** 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**
  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., Gim, 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**
  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.
  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.
• A Fast Unified Model for Parsing and Sentence Understanding
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1054–63

• Learning Language Games through Interaction
  Wang, S. I., Liang, P., Manning, C. D., Erk, K., Smith, N. A.
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1466–77

• 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.
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• Universal Dependencies v1: A Multilingual Treebank Collection
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• Enhanced English Universal Dependencies: An Improved Representation for Natural Language Understanding Tasks
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• Computational Linguistics and Deep Learning
  Manning, C. D.
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• Natural Language Translation at the Intersection of AI and HCI
  Green, S., Heer, J., Manning, C. D.
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  Hirschberg, J., Manning, C. D.
  SCIENCE
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• 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
  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.  
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- **Induced lexico-syntactic patterns improve information extraction from online medical forums.**  
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- **The Stanford CoreNLP Natural Language Processing Toolkit**  
Manning, C. D., Surdeanu, M., Bauer, J., Finkel, J., Bethard, S. J., McClosky, D., Assoc Computat Linguist  
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- **A Gold Standard Dependency Corpus for English**  
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- **Event Extraction Using Distant Supervision**  
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- **Universal Stanford Dependencies: A cross-linguistic typology**  
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- **Learning Distributed Representations for Structured Output Prediction**  
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- **Global Belief Recursive Neural Networks**  
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- **Two Knives Cut Better Than One: Chinese Word Segmentation with Dual Decomposition**  
Wang, M., Voigt, R., Manning, C. D., Toutanova, K., Wu, H.  

- **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.  
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- **Differentiating language usage through topic models**  
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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.
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- Bilingual Word Embeddings for Phrase-Based Machine Translation
  Zou, Will, Y., Socher, R., Cer, D., Manning, Christopher, D.
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  Wang, M., Manning, Christopher, D.
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- 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

  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.
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• A computational approach to politeness with application to social factors
  Danescu-Niculescu-Mizil, C., Sudhof, M., Jurafsky, D., Leskovec, J., Potts, C.
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• 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.
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• 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.
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  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.
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• 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.
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• Termite: Visualization Techniques for Assessing Textual Topic Models International Working Conference on Advanced Visual Interfaces (AVI)
Chuang, J., Manning, C. D., Heer, J.
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• 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
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  2012

• Joint Entity and Event Coreference Resolution across Documents.
  Lee, H., Recasens, M., Chang, A., Surdeana, M., Jurafsky, D.
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• Entity Clustering Across Languages
  Green, S., Andrews, N., Gormley, Matthew, R., Dredze, M., Manning, Christopher, D.
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• 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.
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• Citation-based bootstrapping for large-scale author disambiguation
  Levin, M., Krawczyk, S., Bethard, S., Jurafsky, D.
  Journal of the American Society for Information Science and Technology
  2012; 5 (63): 301-333

• Coreference resolution: an empirical study based on SemEval-2010 shared Task 1
  Language Resources and Evaluation.
  Márquez, L., Recasens, M., Sapena, E.
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• Learning Attitudes and Attributes from Multi-Aspect Reviews
  In International Conference on Data Mining.
  McAuley, Julian, J., Leskovec, J., Jurafsky, D.
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  Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
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  2012
• A Computational Analysis of Style, Affect, and Imagery in Contemporary Poetry.
  Kao, J., Jurafsky, D.
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• 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.
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• He Said, She Said: Gender in the ACL Anthology
  Vogel, A., Jurafsky, a. D.
  2012

• SUTIME: A Library for Recognizing and Normalizing Time Expressions
  Chang, A. X., Manning, C. D.
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  EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2012: 3735–3740

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  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.
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  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., Spitkovsky, Valentin, I., Agirre, E., Manning, Christopher, D.
  2011

- Event Extraction as Dependency Parsing
  McClosky, D., Surdeanu, M., Manning, C.
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- Subword and spatiotemporal models for identifying actionable information in Haitian Kreyol.
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  2011

- Unsupervised Dependency Parsing without Gold Part-of-Speech Tags.
  Spitkovsky, Valentin, I., Alshawi, H., Chang, Angel, X., Jurafsky, D.
  2011

- Strong Baselines for Cross-Lingual Entity Linking.
  Spitkovsky, Valentin, I., Chang, Angel, X.
  2011

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  Nallapati, R., Shi, X., McFarland, D., Leskovec, J., Jurafsky, D.
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- Spectral Chinese Restaurant Processes: Nonparametric Clustering Based on Similarities
  Socher, R., Maas, A., Manning, Christopher, D.
  2011

- Event Extraction as Dependency Parsing for BioNLP 2011
  McClosky, D., Surdeanu, M., Manning, Christopher, D.
  2011

- Customizing an Information Extraction System to a New Domain
  Surdeanu, M., McClosky, D., Smith, Mason, R., Gusev, A., Manning, Christopher, D.
  2011

- A Study of Academic Collaborations in Computational Linguistics using a Latent Mixture of Authors Model
  Johri, N., Ramage, D., McFarland, Daniel, A., Jurafsky, D.
  2011

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  2011

- Stanford's Multi-Pass Sieve Coreference Resolution System at the CoNLL-2011 Shared Task
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- Multiword Expression Identification with Tree Substitution Grammars: A Parsing tour de force with French In EMNLP.
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- Risk Analysis for Intellectual Property Litigation
  Surdeanu, M., Nallapati, R., Manning, Christopher, D.
2011

- Veridicality and utterance understanding.  
  Marneffe, M. d., Manning, Christopher, D., Potts, C.  
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- The Role of Social Networks in Online Shopping: Information Passing, Price of Trust, and Consumer Choice  
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  Socher, R., Pennington, J., Huang, Eric, H., Ng, Andrew, Y., Manning, Christopher, D.  
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- Spectral Chinese Restaurant Processes: Nonparametric Clustering Based on Similarities  
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- Using Evolutive Summary Counters for Efficient Cooperative Caching in Search Engines  
  IEEE Transactions on Parallel and Distributed Systems  
  Dominguez-Sal, D., Aguilar-Saborit, J., Surdeanu, M., Larriba-Pey, J. L.  
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