Christopher Manning

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

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
• Twitter: https://twitter.com/chrmanning

Teaching

COURSES

2022-23

• Foundations of Linguistic Theory: LINGUIST 200 (Aut)
• Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284, SYMSYS 195N (Win)

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, SYMSYS 195N (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Nay San, Silei Xu

Master's Program Advisor
Anirudhan Badrinath, Gordon Chi, Julia Chin, Marie Chu, Edmond Dilworth, Eric Hatch, Lucy Lu, Christopher Moffitt, Xiaoyuan NI, Candice Penelton, Julie Wang

Doctoral Dissertation Co-Advisor (AC)
Bryan Cai, Moussa Doumbouya, Demi Guo, Tolulope Ogunremi

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

Publications

PUBLICATIONS

• Human Language Understanding & Reasoning DAEDALUS
  Manning, C. D.
  2022; 151 (2): 127-138
• 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

• Universal Dependencies *COMPUTATIONAL LINGUISTICS*
de Marneffe, M., Manning, C. D., Nivre, J., Zeman, D.
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• Understanding and predicting user dissatisfaction in a neural generative chatbot
  See, A., Manning, C. D., Assoc Computat Linguist
  ASSOC COMPUTATIONAL LINGUISTICS.2021: 1-12

• Challenges for Information Extraction from Dialogue in Criminal Law
  Hong, J., Voss, C., Manning, C. D., Assoc Computat Linguist
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 71-81

• Large-Scale Quantitative Evaluation of Dialogue Agents' Response Strategies against Offensive Users
  Li, H., Soylu, D., Manning, C. D., Assoc Computat Linguist
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 556-561

• Effective Social Chatbot Strategies for Increasing User Initiative
  Hardy, A., Paranjape, A., Manning, C. D., Assoc Computat Linguist
  ASSOC COMPUTATIONAL LINGUISTICS.2021: 99-110

• 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., 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
  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.
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1054–63

• A Fast Unified Model for Parsing and Sentence Understanding
  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
  EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2016: 1659–66

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  EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2016: 2371–78

• 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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• Advances in natural language processing
  SCIENCE
Christopher Manning
http://cap.stanford.edu/profiles/Christopher_Manning/

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.
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• Robust Subgraph Generation Improves Abstract Meaning Representation Parsing
Werling, K., Angeli, G., Manning, C. D., Zong, C., Strube, M.
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• Learning Distributed Representations for Structured Output Prediction
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- Global Belief Recursive Neural Networks
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  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.

- 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 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
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  Wang, M., Manning, Christopher, D.
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  Zou, Will, Y., Socher, R., Cer, D., 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.
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- Zero-Shot Learning Through Cross-Modal Transfer
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- Parsing With Compositional Vector Grammars
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- 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.
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- Joint Word Alignment and Bilingual Named Entity Recognition Using Dual Decomposition.
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- Language-Independent Discriminative Parsing of Temporal Expressions
  Angeli, G., Uszkoreit, J.
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- Philosophers are Mortal: Inferring the Truth of Unseen Facts.
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  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.
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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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  2013

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  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.
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- 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.
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• 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
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  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.
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• Did It Happen? The Pragmatic Complexity of Veridicality Assessment COMPUTATIONAL LINGUISTICS
  de Marneffe, M., Manning, C. D., Potts, C.
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  Chuang, J., Manning, C. D., Heer, J.
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  Munro, R., Manning, C. D., ACM
  ASSOC COMPUTING MACHINERY.2012

• Towards a Literary Machine Translation: The Role of Referential Cohesion
  Voigt, R., Jurafsky, D.
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• Multi-instance Multi-label Learning for Relation Extraction
  Surdeanu, M., Tibshirani, J., Nallapati, R., Manning, Christopher, D.
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• Learning Constraints for Consistent Timeline Extraction.
  McClosky, D., Manning, Christopher, D.
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• **SPEDE: Probabilistic Edit Distance Metrics for MT Evaluation.**
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• **A Comparison of Chinese Parsers for Stanford Dependencies**
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• **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.
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• **Joint Entity and Event Coreference Resolution across Documents.**
  Lee, H., Recasens, M., Chang, A., Surdeanu, 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.
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• **Baselines and Bigrams: Simple, Good Sentiment and Topic Classification.**
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• **Probabilistic Finite State Machines for Regression-based MT Evaluation.**
  Wang, M., Manning, Christopher, D.
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• **Three Dependency-and-Boundary Models for Grammar Induction**
  Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
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• **Automatic animacy classification**
  Bowman, S., Chopra, H.
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  Levin, M., Krawczyk, S., Bethard, S., Jurafsky, D.
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  Márquez, L., Recasens, M., Sapena, E.
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  McAuley, Julian, J., Leskovec, J., Jurafsky, D.
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• Stanford: Probabilistic Edit Distance Metrics for STS.
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• A Computational Analysis of Style, Affect, and Imagery in Contemporary Poetry.
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• Bootstrapping Dependency Grammar Inducers from Incomplete Sentence Fragments via Austere Models
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• 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
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• SUTIME: A Library for Recognizing and Normalizing Time Expressions 8th International Conference on Language Resources and Evaluation (LREC)
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  Chang, Angel, X., Manning, Christopher, D.
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• 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.
• 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

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Gupta, S., Manning, Christopher, D.
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Riedel, S., McClosky, D., Surdeanu, M., McCallum, A., Manning, Christopher, D.
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Chang, Angel, X., Spitkovsky, Valentin, I., Agirre, E., Manning, Christopher, D.
2011

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McClosky, D., Surdeanu, M., Manning, C.
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2011

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2011

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2011

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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
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• 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 Parsging tour de force with French In EMNLP.
  Green, S., Marneffe, M. d., Bauer, J., Manning, Christopher, D.
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• Risk Analysis for Intellectual Property Litigation
  Surdeanu, M., Nallapati, R., Manning, Christopher, D.
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• The Role of Social Networks in Online Shopping: Information Passing, Price of Trust, and Consumer Choice
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