





Christopher Manning

Thomas M. Siebel Professor of Machine Learning, Professor of Linguistics, of Computer Science and Senior Fellow at the Stanford Institute for HAI

 NIH Biosketch available Online

 Curriculum Vitae available Online

 Resume available Online

CONTACT INFORMATION

- **Administrator**

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Bio

BIO

Christopher Manning is the inaugural Thomas M. Siebel Professor of Machine Learning in the Departments of Linguistics and Computer Science at Stanford University, Director of the Stanford Artificial Intelligence Laboratory (SAIL), and an Associate Director of the Stanford Institute for Human-Centered Artificial Intelligence (HAI). His research goal is computers that can intelligently process, understand, and generate human languages. Manning was an early leader in applying Deep Learning to Natural Language Processing (NLP), with well-known research on the GloVe model of word vectors, attention, machine translation, question answering, self-supervised model pre-training, tree-recursive neural networks, machine reasoning, dependency parsing, sentiment analysis, and summarization. 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 has coauthored leading textbooks on statistical approaches to NLP (Manning and Schütze 1999) and information retrieval (Manning, Raghavan, and Schütze, 2008), as well as linguistic monographs on ergativity and complex predicates. His online CS224N Natural Language Processing with Deep Learning videos have been watched by hundreds of thousands of people. He is an ACM Fellow, a AAAI Fellow, and an ACL Fellow, and a Past President of the ACL (2015). His research has won ACL, Coling, EMNLP, and CHI Best Paper Awards, an ACL Test of Time Award, and the IEEE John von Neumann Medal (2024). He has a B.A. (Hons) from The Australian National University and a Ph.D. from Stanford in 1994, and an Honorary Doctorate from U. Amsterdam in 2023, and he held faculty positions at Carnegie Mellon University and the University of Sydney before returning to Stanford. He is the founder of the Stanford NLP group (@stanfordnlp) and manages development of the Stanford CoreNLP and Stanza software.

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Associate Director, Human-Centered Artificial Intelligence Initiative (HAI), (2018- present)
- Director, Stanford Artificial Intelligence Laboratory, (2018- present)

HONORS AND AWARDS

- John von Neumann Medal, IEEE (2024)
- Honorary Doctorate, University of Amsterdam (2023)
- 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

2024-25

- Foundations of Linguistic Theory: LINGUIST 200 (Aut)

2023-24

- History of Natural Language Processing: CS 324H (Win)
- Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284, SYMSYS 195N (Spr)

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, SYMSYS 195N (Win)
- Transformers United: CS 25 (Aut)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Robert Csordas

Doctoral Dissertation Advisor (AC)

Anna Goldie

Orals Evaluator

Omar Khattab

Master's Program Advisor

Stanley Cao, Riley Carlson, Jayendra Chauhan, Afnaan Hashmi, Mingjian Jiang, Yvette Lin, Juliana Ma, Wesley Tjangnaka, Matthew Villescas, Dylan Zhou

Doctoral Dissertation Co-Advisor (AC)

Moussa Doumbouya, Chaofei Fan, Demi Guo, Omar Khattab, Tolulope Ogunremi, Zen Wu

Doctoral (Program)

Anna Goldie, Lucia Zheng, Shikhar murty

Publications

PUBLICATIONS

- **Handwritten Code Recognition for Pen-and-Paper CS Education**

Islam, M., Doumbouya, M., Manning, C. D., Piech, C., ASSOC COMPUTING MACHINERY
ASSOC COMPUTING MACHINERY.2024: 200-210

- **ReCOGS: How Incidental Details of a Logical Form Overshadow an Evaluation of Semantic Interpretation** *TRANSACTIONS OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS*

Wu, Z., Manning, C. D., Potts, C.
2023; 11: 1719-1733

- **Backpack Language Models**

Hewitt, J., Thickstun, J., Manning, C. D., Liang, P., Rogers, A., Boyd-Graber, J., Okazaki, N.
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2023: 9103-9125

- **Direct Preference Optimization: Your Language Model is Secretly a Reward Model**

Rafailov, R., Sharma, A., Mitchell, E., Ermon, S., Manning, C. D., Finn, C., Oh, A., Neumann, T., Globerson, A., Saenko, K., Hardt, M., Levine, S.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2023

- **Self-Destructing Models: Increasing the Costs of Harmful Dual Uses of Foundation Models**

Henderson, P., Mitchell, E., Manning, C. D., Jurafsky, D., Finn, C., ACM
ASSOC COMPUTING MACHINERY.2023: 287-296

- **Mini But Mighty: Efficient Multilingual Pretraining with Linguistically-Informed Data Selection**

Ogunremi, T., Jurafsky, D., Manning, C. D., Augenstein, Vlachos, A.
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2023: 1251-1266

- **Grokking of Hierarchical Structure in Vanilla Transformers**

Murty, S., Sharma, P., Andreas, J., Manning, C. D., Boyd-Graber, J., Okazaki, N., Rogers, A.
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2023: 439-448

- **Human Language Understanding & Reasoning** *DAEDALUS*

Manning, C. D.
2022; 151 (2): 127-138

- **Synthetic Disinformation Attacks on Automated Fact Verification Systems**

Du, Y., Bosselut, A., Manning, C. D., Assoc Advancement Artificial Intelligence
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2022: 10581-10589

- **Memory-Based Model Editing at Scale**

Mitchell, E., Lin, C., Bosselut, A., Manning, C. D., Finn, C., Chaudhuri, K., Jegelka, S., Song, L., Szepesvari, C., Niu, G., Sabato, S.
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2022

- **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.
2021; 47 (2): 255-308
- **Answering Open-Domain Questions of Varying Reasoning Steps from Text**
Qi, P., Lee, H., Sido, O., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 3599-3614
- **DReCa: A General Task Augmentation Strategy for Few-Shot Natural Language Inference**
Murty, S., Hashimoto, T. B., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 1113-1125
- **Human-like informative conversations: Better acknowledgements using conditional mutual information**
Paranjape, A., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 768-781
- **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.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
- **Understanding and predicting user dissatisfaction in a neural generative chatbot**
See, A., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS.2021: 1-12
- **Conditional probing: measuring usable information beyond a baseline**
Hewitt, J., Ethayarajh, K., Liang, P., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 1626-1639
- **ELECTRA: PRE-TRAINING TEXT ENCODERS AS DISCRIMINATORS RATHER THAN GENERATORS** *INFORMATION SYSTEMS RESEARCH*
Clark, K., Luong, M., Le, Q. V., Manning, C. D.
2020
- **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
- **Universal Dependencies v2: An Evergrowing Multilingual Treebank Collection**
Nivre, J., de Marneffe, M., Ginter, F., Hajic, J., Manning, C. D., Pyysalo, S., Schuster, S., Tyers, F., Zeman, D., Calzolari, N., Bechet, F., Blache, P., Choukri, et al
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2020: 4034-4043
- **SLM: Learning a Discourse Language Representation with Sentence Unshuffling**
Lee, H., Hudson, D. A., Lee, K., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2020: 1551-1562
- **Pre-Training Transformers as Energy-Based Cloze Models**
Clark, K., Luong, M., Le, Q. V., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2020: 285-294
- **RNNs can generate bounded hierarchical languages with optimal memory**
Hewitt, J., Hahn, M., Ganguli, S., Liang, P., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2020: 1978-2010

- **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
Hudson, D. A., Manning, C. D., IEEE Comp Soc
IEEE.2019: 6693–6702
- **CoQA: A Conversational Question Answering Challenge** *TRANSACTIONS OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS*
Reddy, S., Chen, D., Manning, C. D.
2019; 7: 249-266
- **A Structural Probe for Finding Syntax in Word Representations**
Hewitt, J., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2019: 4129-4138
- **Answering Complex Open-domain Questions Through Iterative Query Generation**
Qi, P., Lin, X., Mehr, L., Wang, Z., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2019: 2590-2602
- **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
- **Semi-Supervised Sequence Modeling with Cross-View Training**
Clark, K., Luong, M., Manning, C. D., Le, Q. V., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2018: 1914-1925
- **Graph Convolution over Pruned Dependency Trees Improves Relation Extraction**
Zhang, Y., Qi, P., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2018: 2205-2215
- **HOTPOTQA: A Dataset for Diverse, Explainable Multi-hop Question Answering**
Yang, Z., Peng, Q., Zhang, S., Bengio, Y., Cohent, W. W., Salakhutdinov, R., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2018: 2369-2380
- **Textual Analogy Parsing: What's Shared and What's Compared among Analogous Facts**
Lamm, M., Chaganty, A., Manning, C. D., Jurafsky, D., Liang, P., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2018: 82-92
- **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

- **Key-Value Retrieval Networks for Task-Oriented Dialogue**
Eric, M., Krishnan, L., Charette, F., Manning, C. D., Assoc Computat Linguist
ASSOC COMPUTATIONAL LINGUISTICS.2017: 37-49
- **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.
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**
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
 - **Robust Logistic Regression using Shift Parameters**
Tibshirani, J., Manning, C. D., Toutanova, K., Wu, H.
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2014: 124-129
 - **Word Segmentation of Informal Arabic with Domain Adaptation**
Monroe, W., Green, S., Manning, C. D., Toutanova, K., Wu, H.
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2014: 206-211
 - **TransPhoner: Automated Mnemonic Keyword Generation**
Savva, M., Chang, A. X., Manning, C. D., Hanrahan, P., ACM
ASSOC COMPUTING MACHINERY.2014: 3725-3734
 - **Faster Phrase-Based Decoding by Refining Feature State**
Heafield, K., Kayser, M., Manning, C. D., Toutanova, K., Wu, H.
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2014: 130-135
 - **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*
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