Christopher Manning

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.
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• Universal Dependencies *COMPUTATIONAL LINGUISTICS*
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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
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• BAM! Born-Again Multi-Task Networks for Natural Language Understanding
  Clark, K., Minh-Thanh Luong, Khandelwal, U., Manning, C. D., Le, Q. V., ACL, Korhonen, A., Traum, D., Marquez, L.
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• 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.
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• Get To The Point: Summarization with Pointer-Generator Networks
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  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.
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• 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.
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  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1466–77

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  Wang, S. I., Liang, P., Manning, C. D., Erk, K., Smith, N. A.
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  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.
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* Advances in natural language processing
Christopher Manning
http://cap.stanford.edu/profiles/Christopher_Manning/

- Text to 3D Scene Generation with Rich Lexical Grounding
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  Wang, M., Voigt, R., Manning, C. D., Toutanova, K., Wu, H.

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  McFarland, D. A., Ramage, D., Chuang, J., Heer, J., Manning, C. D., Jurafsky, D.
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• Parsing Models for Identifying Multiword Expressions COMPUTATIONAL LINGUISTICS
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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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• Effect of Nonlinear Deep Architecture in Sequence Labeling.
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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
  Socher, R., Ganjoo, M., Sridhar, H., Bastani, O., Manning, C., D., Ng, A., Y.
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• Parsing With Compositional Vector Grammars
  Socher, R., Bauer, J., Manning, Christopher, D., Ng, Andrew, Y.
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  Wang, M., Che, W., Manning, Christopher, D.
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• Language-Independent Discriminative Parsing of Temporal Expressions
  Angeli, G., Uszkoreit, J.
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  Angeli, G., Manning, C.
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• Same Referent, Different Words: Unsupervised Mining of Opaque Coreferent Mentions.
  Recasens, M., Can, M., Jurafsky, D.
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  Voigt, R., Jurafsky, D.
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• Generating Recommendation Dialogs by Extracting Information from User Reviews.
  Reschke, K., Vogel, A., Jurafsky, D.
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  Recasens, M., Danescu-Niculescu-Mizil, C., Jurafsky, D.
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  Danescu-Niculescu-Mizil, C., Sudhof, M., Jurafsky, D., Leskovec, J., Potts, C.
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  Wang, M., Manning, Christopher, D.
  2013

• Semantic Parsing on Freebase from Question-Answer Pairs.
  Berant, J., Chou, A., Frostig, R., Liang, P.
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• 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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  Socher, R., Ganjoo, M., Manning, Christopher, D., Ng, Andrew, Y.
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• The Life and Death of Discourse Entities: Identifying Singleton Mentions
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• Implicatures and Nested Beliefs in Approximate Decentralized-POMDPs.  
  Vogel, A., Potts, C., Jurafsky, D.  
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• Learning New Facts From Knowledge Bases With Neural Tensor Networks and Semantic Word Vectors  
  Chen, D., Socher, R., Manning, Christopher, D., Ng, Andrew, Y.  
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• Better Word Representations with Recursive Neural Networks for Morphology.  
  Luong, M., Socher, R., Manning, Christopher, D.  
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• 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.  
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• 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.  
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  Chuang, J., Manning, C. D., Heer, J.  
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  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.  
  ASSOC COMPUTING MACHINERY.2012: 74–77

• Short message communications: users, topics, and in-language processing  
  Munro, R., Manning, C. D., ACM  
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• Towards a Literary Machine Translation: The Role of Referential Cohesion  
  Voigt, R., Jurafsky, D.  
  2012

• Multi-instance Multi-label Learning for Relation Extraction  
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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.
  Wang, M., Manning, Christopher, D.
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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.
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• Semantic Compositionality Through Recursive Matrix-Vector Spaces
  Socher, R., Huval, B., Manning, Christopher, D., Ng, Andrew, Y.
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• Entity Clustering Across Languages
  Green, S., Andrews, N., Gormley, Matthew, R., Dredze, M., Manning, Christopher, D.
  2012

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  Spitkovsky, Valentin, I., Chang, Angel, X.
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• Three Dependency-and-Boundary Models for Grammar Induction
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• Automatic animacy classification
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2012

• Bootstrapping Dependency Grammar Inducers from Incomplete Sentence Fragments via Austere Models  
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2012

• Parsing Time: Learning to Interpret Time Expressions  
Angeli, G., Manning, Christopher, D., Jurafsky, D.  
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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.  
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2011

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  Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
  2011

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  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.
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- **Model Combination for Event Extraction in BioNLP 2011**
  Riedel, S., McClosky, D., Surdeanu, M., McCallum, A., Manning, Christopher, D.
  2011

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  Chang, Angel, X., Spitkovsky, Valentin, I., Agirre, E., Manning, Christopher, D.
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  McClosky, D., Surdeanu, M., Manning, C.
  2011

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  2011

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- **LeadLag LDA: Estimating Topic Specific Leads and Lags of Information Outlets**
  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**
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- **Customizing an Information Extraction System to a New Domain**
  Surdeanu, M., McClosky, D., Smith, Mason, R., Gusev, A., Manning, Christopher, D.
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- **A Study of Academic Collaborations in Computational Linguistics using a Latent Mixture of Authors Model**
  Johri, N., Ramage, D., McFarland, Daniel, A., Jurafsky, D.
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