Bio

Christopher Manning is a professor of computer science and linguistics 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). 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 and Stanza 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 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Nay San, Silei Xu, Michihiro Yasunaga

Orals Evaluator
Silei Xu

Master’s Program Advisor
Anirudhan Badrinath, Stanley Cao, Jayendra Chauhan, Gordon Chi, Julia Chin, Marie Chu, Qi Han, Afnaan Hashmi

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

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

- **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**
  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

- **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

- **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*
• 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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• Learning by Abstraction: The Neural State Machine
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• BAM! Born-Again Multi-Task Networks for Natural Language Understanding
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• Simpler but More Accurate Semantic Dependency Parsing
Dozat, T., Manning, C. D., Gurevych, Miyao, Y.
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• Arc-swift: A Novel Transition System for Dependency Parsing
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• Naturalizing a Programming Language via Interactive Learning
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• A comparison of Named-Entity Disambiguation and Word Sense Disambiguation
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• Improving Coreference Resolution by Learning Entity-Level Distributed Representations
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• 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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• A Fast Unified Model for Parsing and Sentence Understanding
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• Learning Language Games through Interaction
Wang, S. I., Liang, P., Manning, C. D., Erk, K., Smith, N. A.
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• Understanding Human Language: Can NLP and Deep Learning Help?
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• A Thorough Examination of the CNN/Daily Mail Reading Comprehension Task
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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**
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• **Differentiating language usage through topic models** *Poetics*
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• **Parsing Models for Identifying Multiword Expressions** *Computational Linguistics*
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• **Learning a Product of Experts with Elitist Lasso.**
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• **Bilingual Word Embeddings for Phrase-Based Machine Translation**
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2013

• **Effect of Nonlinear Deep Architecture in Sequence Labeling.**
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2013
• 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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  Socher, R., Ganjoo, M., Sridhar, H., Bastani, O., Manning, C., D., Ng, A., Y.
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  Che, W., Wang, M., Manning, Christopher, D., Liu, T.
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• Effective Bilingual Constraints for Semi-supervised Learning of Named Entity Recognizers.
  Wang, M., Che, W., Manning, Christopher, D.
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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
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• Fast and Adaptive Online Training of Feature-Rich Translation Models
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  Green, S., Wang, S., Cer, D., Manning, C. 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
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  2013

• Same Referent, Different Words: Unsupervised Mining of Opaque Coreferent Mentions.
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• Tradition and Modernity in 20th Century Chinese Poetry.
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  2013

• Generating Recommendation Dialogs by Extracting Information from User Reviews.
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  2013

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  2013

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  Danescu-Niculescu-Mizil, C., Sudhof, M., Jurafsky, D., Leskovec, J., Potts, C.
  2013
• **Effect of Non-linear Deep Architecture in Sequence Labeling.**
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  2013

• **Semantic Parsing on Freebase from Question-Answer Pairs.**
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  2013

• **Learning Biological Processes with Global Constraints.**
  Scaria, A. T., Berant, J., Wang, M., Clark, P., Lewis, J., Harding, B., Manning, Christopher, D.
  2013

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• **The Life and Death of Discourse Entities: Identifying Singleton Mentions**
  Recasens, M., Marneffe, M. d., Potts, C.
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• **Implicatures and Nested Beliefs in Approximate Decentralized-POMDPs.**
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  2013

• **Learning New Facts From Knowledge Bases With Neural Tensor Networks and Semantic Word Vectors**
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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.**
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• **"Without the Clutter of Unimportant Words": Descriptive Keyphrases for Text Visualization** *ACM Transactions on Computer-Human Interaction*
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• **Combining joint models for biomedical event extraction** *Conference on BioNLP Shared Task*
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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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  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.
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• SPEDE: Probabilistic Edit Distance Metrics for MT Evaluation.
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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.
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• Improving Word Representations via Global Context and Multiple Word Prototypes.
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• Semantic Compositionality Through Recursive Matrix-Vector Spaces
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• Joint Entity and Event Coreference Resolution across Documents.
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2012

- **Annotating Near-Identity from Coreference Disagreements.**
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  2012

- **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**
  Spîtkovskî, Valentin, I., Alshawi, H., Jurafsky, D.
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- **Automatic animacy classification**
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- **Learning Attitudes and Attributes from Multi-Aspect Reviews**
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- **Without the clutter of unimportant words**
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  2012

- **Bootstrapping Dependency Grammar Inducers from Incomplete Sentence Fragments via Austere Models**
  Spîtkovskî, Valentin, I., Alshawi, H., Jurafsky, D.
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- **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)*  
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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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- **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

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- **Lateen EM: Unsupervised Training with Multiple Objectives, Applied to Dependency Grammar Induction.**  
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- **Stanford’s Distantly-Supervised Slot-Filling System.**  
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  2011

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