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

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)

2018-19
• Information Retrieval and Web Search: CS 276, LINGUIST 286 (Spr)
• Natural Language Processing with Deep Learning: CS 224N, LINGUIST 284 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Nay San, Silei Xu

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

Orals Evaluator
Ashwin Pradeep Paranjape

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

Master’s Program Advisor
Gordon Chi, Lucy Lu, Xiaoyuan Ni, Candice Penelton, Julie Wang

Doctoral (Program)
Anna Goldie, John Hewitt, Eric Mitchell, Ashwin Pradeep Paranjape, 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*
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- **Universal Dependencies** *COMPUTATIONAL LINGUISTICS*
  de Marneffe, M., Manning, C. D., Nivre, J., Zeman, D.
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  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.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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- **Learning by Abstraction: The Neural State Machine**
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- **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.
• Simpler but More Accurate Semantic Dependency Parsing
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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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• Combining Natural Logic and Shallow Reasoning for Question Answering
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• A Thorough Examination of the CNN/Daily Mail Reading Comprehension Task
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• **Learning Distributed Representations for Structured Output Prediction**
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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.

• **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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• **Parsing Models for Identifying Multiword Expressions**
Green, S., de Marneffe, M., Manning, C. D.
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• **The Efficacy of Human Post-editing for Language Translation**
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2013

• **Learning a Product of Experts with Elitist Lasso.**
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2013

• **Bilingual Word Embeddings for Phrase-Based Machine Translation**
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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.
2013

• **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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• **Effective Bilingual Constraints for Semi-supervised Learning of Named Entity Recognizers.**
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• Parsing With Compositional Vector Grammars
  Socher, R., Bauer, J., Manning, Christopher, D., Ng, Andrew, Y.
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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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• Philosophers are Mortal: Inferring the Truth of Unseen Facts.
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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

• 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.
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  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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• Parsing entire discourses as very long strings: Capturing topic continuity in grounded language learning.
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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.**
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- **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.**
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- **No country for old members: User lifecycle and linguistic change in online communities.**
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  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*
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- **Crowdsourcing and the Crisis-affected Population** *Information Retrieval*
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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*
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- **Termite: Visualization Techniques for Assessing Textual Topic Models** *International Working Conference on Advanced Visual Interfaces (AVI)*
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  Munro, R., Manning, C. D., ACM
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• **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.**
  Wang, M., Manning, Christopher, D.
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• **A Comparison of Chinese Parsers for Stanford Dependencies**
  Che, W., Spitkovsky, Valentin, I., Liu, T.
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• **Stanford’s System for Parsing the English Web**
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• **Improving Word Representations via Global Context and Multiple Word Prototypes.**
  Huang, Eric, H., Socher, R., Manning, Christopher, D., Ng, Andrew, Y.
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• **Semantic Compositionality Through Recursive Matrix-Vector Spaces**
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  Green, S., Andrews, N., Gormley, Matthew, R., Dredze, M., Manning, Christopher, D.
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• **Annotating Near-Identity from Coreference Disagreements.**
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• **Baselines and Bigrams: Simple, Good Sentiment and Topic Classification.**
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• Three Dependency-and-Boundary Models for Grammar Induction
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• Automatic animacy classification
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• Stanford: Probabilistic Edit Distance Metrics for STS.
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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
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• SUTIME: A Library for Recognizing and Normalizing Time Expressions.
  In Eighth International Conference on Language Resources and Evaluation (LREC 2012)
  Chang, Angel, X., Manning, Christopher, D.
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• Convolutional-Recursive Deep Learning for 3D Object Classification.
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  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
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• Punctuation: Making a Point in Unsupervised Dependency Parsing
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