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 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Nay San, Silei Xu

Doctoral Dissertation Advisor (AC)
Matt Lamm

Master's Program Advisor
Anirudhan Badrinath, Gordon Chi, Lucy Lu, Xiaoyuan NI, Candice Penelton, Julie Wang

Doctoral Dissertation Co-Advisor (AC)
Bryan Cai, 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*
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  de Marneffe, M., Manning, C. D., Nivre, J., Zeman, D.
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  See, A., Manning, C. D., Assoc Computat Linguist
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• 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
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• Effective Social Chatbot Strategies for Increasing User Initiative
  Hardy, A., Paranjape, A., Manning, C. D., Assoc Computat Linguist
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.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*
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• 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

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Wang, S. I., Grimm, S., Liang, P., Manning, C. D., Barzilay, R., Kan, M. Y.  
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Clark, K., Manning, C. D., Erk, K., Smith, N. A.  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 643–53

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Manning, C., Assoc Comp Machinery  
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- Two Knives Cut Better Than One: Chinese Word Segmentation with Dual Decomposition
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- 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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  Daniel A. McFarland, Daniel Ramage, Jason Chuang, Jeffrey Heer, and Christopher D. Manning
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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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  Luong, M., Socher, R., Manning, Christopher, D.  
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- **No country for old members: User lifecycle and linguistic change in online communities.**  
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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*  
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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**
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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.**
  Huang, Eric, H., Socher, R., Manning, Christopher, D., Ng, Andrew, Y.
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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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  Lee, H., Recasens, M., Chang, A., Surdeanu, M., Jurafsky, 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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  Chang, Angel, X., Manning, Christopher, D.
  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?  
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