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

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
  
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• Understanding and predicting user dissatisfaction in a neural generative chatbot
  
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  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  
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• 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  
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  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.  
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• Simpler but More Accurate Semantic Dependency Parsing
  
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• Arc-swift: A Novel Transition System for Dependency Parsing
  
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  Wang, S. I., Ginn, S., Liang, P., Manning, C. D., Barzilay, R., Kan, M. Y.
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• Improving Coreference Resolution by Learning Entity-Level Distributed Representations
  Clark, K., Manning, C. D., Erk, K., Smith, N. A.
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  ASSOC COMPUTING MACHINERY.2016: 1

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  Angeli, G., Nayak, N., Manning, C. D., Erk, K., Smith, N. A.
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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.

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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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• 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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  Munro, R., Manning, C. D., ACM
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• Towards a Literary Machine Translation: The Role of Referential Cohesion
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  Surdeanu, M., Tibshirani, J., Nallapati, R., Manning, Christopher, D.
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  McClosky, D., Manning, Christopher, D.
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• **SPEDE: Probabilistic Edit Distance Metrics for MT Evaluation.**
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• **A Comparison of Chinese Parsers for Stanford Dependencies**
  Che, W., Spitkovsky, Valentin, I., Liu, T.
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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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• **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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Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
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**Parsing Time: Learning to Interpret Time Expressions**
Angeli, G., Manning, Christopher, D., Jurafsky, D.
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**SUTIME: A Library for Recognizing and Normalizing Time Expressions** *8th International Conference on Language Resources and Evaluation (LREC)*
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2012; 25

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**Veridicality and utterance understanding**
de Marneffe, M., Manning, C. D., Potts, C., IEEE Comp Soc
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Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
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- **Parsing Natural Scenes and Natural Language with Recursive Neural Networks.**
  Socher, R., Lin, C. C., Ng, Andrew, Y., Manning, Christopher, D.
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  Riedel, S., McClosky, D., Surdeanu, M., McCallum, A., Manning, Christopher, D.
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- **Spectral Chinese Restaurant Processes: Nonparametric Clustering Based on Similarities**
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- **Event Extraction as Dependency Parsing for BioNLP 2011**
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