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=1zmD0dwAAAAJ
• 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, Jenny Hong, 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.
  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
  Dholve, 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

  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
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- 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

- Learning by Abstraction: The Neural State Machine
  NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019

- BAM! Born-Again Multi-Task Networks for Natural Language Understanding
  Clark, K., Minh-Thanh Laong, 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.
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• Arc-swift: A Novel Transition System for Dependency Parsing
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  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2017: 110–17

• Get To The Point: Summarization with Pointer-Generator Networks
  See, A., Liu, P. J., Manning, C. D., Barzilay, R., Kan, M. Y.
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2017: 1073–83

• Naturalizing a Programming Language via Interactive Learning
  Wang, S. I., Ginn, S., Liang, P., Manning, C. D., Barzilay, R., Kan, M. Y.
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2017: 929–38

• 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.
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1054–63

• A Fast Unified Model for Parsing and Sentence Understanding
  ASSOC COMPUTATIONAL LINGUISTICS-ACL.2016: 1466–77

• 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?
  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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• A Thorough Examination of the CNN/Daily Mail Reading Comprehension Task
  Chen, D., Bolton, J., Manning, C. D., Erk, K., Smith, N. A.
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• Enhanced English Universal Dependencies: An Improved Representation for Natural Language Understanding Tasks
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- Improved Semantic Representations From Tree-Structured Long Short-Term Memory Networks
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  Srikumar, V., Manning, C. D., Ghahramani, Z., Welling, M., Cortes, C., Lawrence, N. D., Weinberger, K. Q.
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• Global Belief Recursive Neural Networks
  Paulus, R., Socher, R., Manning, C. D., Ghahramani, Z., Welling, M., Cortes, C., Lawrence, N. D., Weinberger, K. Q.
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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
  Frostig, R., Wang, S., Liang, P., Manning, C. D., Ghahramani, Z., Welling, M., Cortes, C., Lawrence, N. D., Weinberger, K. Q.
  NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2014

• Differentiating language usage through topic models POETICS
  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
  Green, S., de Marneffe, M., Manning, C. D.
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• The Efficacy of Human Post-editing for Language Translation CHI
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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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• Recursive Deep Models for Semantic Compositionality Over a Sentiment Treebank
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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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• Named Entity Recognition with Bilingual Constraints.
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• Differentiating Language Usage through Topic Models Poetics
  Daniel A. McFarland, Daniel Ramage, Jason Chuang, Jeffrey Heer, and Christopher D. Manning
  McFarland, Daniel, A., Ramage, D., Chuang, J., Heer, J., Manning, Christopher, D.
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  Proc. ACL
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  2013

• Joint Word Alignment and Bilingual Named Entity Recognition Using Dual Decomposition.
  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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• Philosophers are Mortal: Inferring the Truth of Unseen Facts.
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• Same Referent, Different Words: Unsupervised Mining of Opaque Coreferent Mentions.
  Recasens, M., Can, M., Jurafsky, D.
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• Tradition and Modernity in 20th Century Chinese Poetry.
  Voigt, R., Jurafsky, D.
  2013

• Generating Recommendation Dialogs by Extracting Information from User Reviews.
  Reschke, K., Vogel, A., Jurafsky, D.
  2013

• Linguistic Models for Analyzing and Detecting Biased Language.
  Recasens, M., Danescu-Niculescu-Mizil, C., Jurafsky, D.
  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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  Scaria, A. T., Berant, J., Wang, M., Clark, P., Lewis, J., Harding, B., Manning, Christopher, D.
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  Luong, M., Frank, Michael, C., Johnson, M.
Socher, R., Ganjoo, M., Manning, Christopher, D., Ng, Andrew, Y.
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Recasens, M., Marneffe, M. d., Potts, C.
2013

Implicatures and Nested Beliefs in Approximate Decentralized-POMDPs.
Vogel, A., Potts, C., Jurafsky, D.
2013

Learning New Facts From Knowledge Bases With Neural Tensor Networks and Semantic Word Vectors
Chen, D., Socher, R., Manning, Christopher, D., Ng, Andrew, Y.
2013

Better Word Representations with Recursive Neural Networks for Morphology.
Luong, M., Socher, R., Manning, Christopher, D.
2013

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Danescu-Niculescu-Mizil, C., West, R., Jurafsky, D., Leskovec, J., Potts, C.
2013

Breaking Out of Local Optima with Count Transforms and Model Recombination: A Study in Grammar Induction.
Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
2013

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.
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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
Chuang, J., Manning, C. D., Heer, J.
2012; 19 (3)

Combining joint models for biomedical event extraction Conference on BioNLP Shared Task
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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Short message communications: users, topics, and in-language processing
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  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.
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  2012

- 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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  Socher, R., Huval, B., Manning, Christopher, D., Ng, Andrew, Y.
  2012

  Anderson, A., McFarland, D., Jurafsky, D.
  2012

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  Lee, H., Recasens, M., Chang, A., Surdeana, M., Jurafsky, D.
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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.
  Recasens, M., Martí, M., Antònia, Orasan, C.
  2012

- Baselines and Bigrams: Simple, Good Sentiment and Topic Classification.
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  Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
• Automatic animacy classification
  Bowman, S., Chopra, H.
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• Citation-based bootstrapping for large-scale author disambiguation Journal of the American Society for Information Science and Technology
  Levin, M., Krawczyk, S., Bethard, S., Jurafsky, D.
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• Stanford: Probabilistic Edit Distance Metrics for STS.
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  Spitkovsky, Valentin, I., Alshawi, H., Jurafsky, D.
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• Parsing Time: Learning to Interpret Time Expressions
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  Vogel, A., Jurafsky, a. D.
  2012

• SUTIME: A Library for Recognizing and Normalizing Time Expressions 8th International Conference on Language Resources and Evaluation (LREC)
  Chang, A. X., Manning, C. D.
  EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA 2012: 3735–3740

  Chang, Angel, X., Manning, Christopher, D.
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• 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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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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- Parsing Natural Scenes and Natural Language with Recursive Neural Networks
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- Multiword Expression Identification with Tree Substitution Grammars: A Parsing tour de force with French In EMNLP.
  Green, S., Marneffe, M. d., Bauer, J., Manning, Christopher, D.
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