Jesse Mu

muj@stanford.edu
cs.stanford.edu/~muj

Education

2018- Ph.D. in Computer Science, Stanford University

- Advisor: Noah Goodman

2017-2018 MPhil in Advanced Computer Science, with distinction, University of Cambridge

- Advisors: Ekaterina Shutova, Helen Yannakoudakis

2013–2017 B.A. in Computer Science, summa cum laude, Boston College

- Advisors: Joshua K. Hartshorne, Timothy J. O'Donnell

Experience

2023- Member of Technical Staff, Anthropic

2022 Research Intern, DeepMind

- Advisors: Joel Leibo and Jane Wang

2021 Research Intern, FAIR, Meta

- Advisors: Edward Grefenstette and Tim Rocktäschel

2020 Visiting Researcher, Language and Intelligence Group (LINGO), MIT

- Advisor: Jacob Andreas

2019–2020 Course Consultant, Codecademy

- Course advisor/designer for Deep Learning and Text Generation course

2017 Applied Scientist Intern, Alexa AI, Amazon

Publications

2023

2024 Sleeper Agents: Training Deceptive LLMs that Persist Through Safety Training

Evan Hubinger, Carson Denison, Jesse Mu, Mike Lambert, Meg Tong, Monte MacDiarmid, Tamera Lanham, Daniel M. Ziegler, Tim Maxwell, Newton Cheng, Adam Jermyn, Amanda Askell, Ansh Radhakrishnan, Cem Anil, David Duvenaud, Deep Ganguli, Fazl Barez, Jack Clark, Kamal Ndousse, Kshitij Sachan, et al. In Advances in Neural Information Processing Systems (NeurIPS)

Learning to Compress Prompts with Gist Tokens

Jesse Mu, Xiang Lisa Li, and Noah Goodman. In Advances in Neural Information Processing Systems (NeurIPS)

2023 Characterizing tradeoffs between teaching via language and demonstrations in multi-agent systems

Dhara Yu, Noah Goodman, and Jesse Mu. In Proceedings of the 45th Annual Meeting of the Cognitive Science Society (CogSci)

- Improving Intrinsic Exploration with Language Abstractions
 Jesse Mu, Victor Zhong, Roberta Raileanu, Minqi Jiang, Noah Goodman, Tim Rocktäschel,
 and Edward Grefenstette. In Advances in Neural Information Processing Systems (NeurIPS)
 Improving Policy Learning with Language Dynamics Distillation
- Victor Zhong, Jesse Mu, Luke Zettlemoyer, Edward Grefenstette, and Tim Rocktäschel. In Advances in Neural Information Processing Systems (NeurIPS)
- STaR: Bootstrapping Reasoning with Reasoning
 Eric Zelikman, Yuhai Wu, Jesse Mu, and Noah Goodman. In Advances in Neural Information
 Processing Systems (NeurIPS)
- Active Learning Helps Pretrained Models Learn the Intended Task
 Alex Tamkin, Dat Nguyen, Salil Deshpande, Jesse Mu, and Noah Goodman. In Advances in
 Neural Information Processing Systems (NeurIPS)
- In the ZONE: Measuring difficulty and progression in curriculum generation
 Rose Wang, Jesse Mu, Dilip Arumugam, Natasha Jaques, and Noah Goodman. In NeurIPS
 Deep RL Workshop
- Emergent Covert Signaling in Adversarial Reference Games

 Dhara Yu, Jesse Mu, and Noah Goodman. In Proceedings of the 5th Workshop on Emergent
 Communication: New Frontiers
- Multi-party Referential Communication in Complex Strategic Games
 Jessica Mankewitz, Veronica Boyce, Brandon Waldon, Georgia Loukatou, Dhara Yu, Jesse
 Mu, Noah Goodman, and Michael Frank. In NeurIPS Meaning in Context (MiC) Workshop
- Emergent Communication of Generalizations

 Jesse Mu and Noah Goodman. In Advances in Neural Information Processing Systems (NeurIPS)

 (previously NAACL 2021 Workshop on Visually Grounded Interaction and Language)
- Calibrate Your Listeners! Robust Communication-based Training for Pragmatic Speakers
 Rose E. Wang, Julia White, Jesse Mu, and Noah Goodman. In Findings of the 2021 Conference
 on Empirical Methods in Natural Language Processing (EMNLP)
- Compositional Explanations of Neurons
 Jesse Mu and Jacob Andreas. In Advances in Neural Information Processing Systems (NeurIPS)
 [oral (top 1.1%)]
- Learning to Refer Informatively by Amortizing Pragmatic Reasoning
 Julia White, Jesse Mu, and Noah Goodman. In Proceedings of the 42nd Annual Meeting of the
 Cognitive Science Society (CogSci)
- Shaping Visual Representations with Language for Few-shot Classification

 Jesse Mu, Percy Liang, and Noah Goodman. In Proceedings of the 58th Annual Meeting of the

 Association for Computational Linguistics (ACL) (previously NeurIPS 2019 Workshop on Visually

 Grounded Interaction and Language)
- Learning Outside the Box: Discourse-level Features Improve Metaphor Identification
 Jesse Mu, Helen Yannakoudakis, and Ekaterina Shutova. In Proceedings of the 2019 North
 American Chapter of the Association for Computational Linguistics: Human Language Technologies
 (NAACL)
- Do we need natural language? Exploring "restricted" language interfaces for complex domains

Jesse Mu and Advait Sarkar. In CHI '19 Extended Abstracts on Human Factors in Computing Systems

2019 The meta-science of adult statistical word segmentation: Part 1

Joshua K. Hartshorne, Lauren Skorb, Sven L. Dietz, Caitlin R. Garcia, Gina L. Iozzo, Katie E. Lamirato, James R. Ledoux, **Jesse Mu**, Kara N. Murdock, Jon Ravid, Alyssa A. Savery, James E. Spizzirro, Kelsey A. Trimm, Kendall D. van Horne, and Juliani Vidal. *Collabra* 5(1):1

2017 Evaluating hierarchies of verb argument structure with hierarchical clustering

Jesse Mu, Joshua K. Hartshorne, and Timothy J. O'Donnell. In *Proceedings of the 2017*

Conference on Empirical Methods in Natural Language Processing (EMNLP)

Parkinson's disease subtypes identified from cluster analysis of motor and non-motor symptoms

Jesse Mu, Kallol Ray Chaudhuri, Concha Bielza, Jesús de Pedro Cuesta, Pedro Larrañaga, and Pablo Martinez-Martin. *Frontiers in Aging Neuroscience* 9:301

Honors and awards

2021	Open Philanthropy AI Fellowship
2018	Finch Family Fellowship, Stanford School of Engineering
2018	NSF Graduate Research Fellowship
2017	John J. Neuhauser Award in Computer Science, Boston College
2017	Thomas I. Gasson, S.J. Award, Boston College
2017	Phi Beta Kappa
2017	Churchill Scholarship
2016	Barry M. Goldwater Scholarship
2013	Gabelli Presidential Scholarship, Boston College

Teaching

2017

2023	reaching Assistant, CS 224n Natural Language Processing with Deep Learning, Stanford
2022	Teaching Assistant, CS 221 Artificial Intelligence: Principles and Techniques, Stanford
2020	Guest Lecturer, Structure and Interpretation of Deep Networks, MIT IAP
2014-2016	Teaching Assistant, Computer Science I, Boston College

Leadership and service

2020-2021	Organizer, Stanford NLP Seminar
2014-2017	Co-president, Boston College Computer Science Society
	Reviewing
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2023	ICLR, TMLR (expert reviewer), ACL, NeurIPS
2022	ICLR (highlighted reviewer), ICML (outstanding reviewer), TMLR, ACL Learning with
	Natural Language Supervision (LNLS) Workshop, NeurIPS Language and Reinforcement
	Learning (LaReL) Workshop, NeurIPS Workshop on Interactive Learning for Natural
	Language Processing (InterNLP)
2021	NAACL, ACL, EMNLP, NeurIPS (outstanding reviewer), NeurIPS Meaning in Context
	Workshop