

Robin Jia

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Education	Stanford University Ph.D. in Computer Science Advisor: Percy Liang Thesis: Building Robust Natural Language Processing Systems	September 2014 – August 2020
	Stanford University Bachelor of Science with Honors in Computer Science Minor in Biology GPA: 4.103 / 4.0	September 2010 – June 2014
Employment	Assistant Professor , Computer Science Department, University of Southern California Los Angeles, CA	August 2021 – Present
	Visiting Researcher , Facebook AI Research Menlo Park, CA Hosts: Luke Zettlemoyer and Douwe Kiela	August 2020 – August 2021
	Research Intern , Microsoft Research Redmond, WA Host: Hoifung Poon	June 2018 – September 2018
	Research Intern , Google Research Mountain View, CA Host: Larry Heck	June 2016 – September 2016
Awards	Google Research Scholar Award Cisco Research Award Open Philanthropy research grant Best Short Paper Outstanding Paper (Best paper runner-up) National Science Foundation Graduate Research Fellow	2023 – 2024 2023 – 2024 2021 – 2024 ACL 2018 EMNLP 2017 2014 – 2019
Publications	Data Curation Alone Can Stabilize In-context Learning Ting-Yun Chang and Robin Jia	ACL 2023
	Contrastive Novelty-Augmented Learning: Anticipating Outliers with Large Language Models Albert Xu, Xiang Ren, and Robin Jia SoCalNLP Symposium 2022 Best Paper Award.	ACL 2023
	Are Sample-Efficient NLP Models More Robust? Nelson F. Liu, Ananya Kumar, Percy Liang, and Robin Jia	ACL 2023
	Do Question Answering Modeling Improvements Hold Across Benchmarks? Nelson F. Liu, Tony Lee, Robin Jia, and Percy Liang	ACL 2023
	Benchmarking Long-tail Generalization with Likelihood Splits Ameya Godbole and Robin Jia	EACL Findings 2023
	Generalization Differences between End-to-End and Neuro-Symbolic Vision-Language Reasoning Systems Wang Zhu, Jesse Thomason, and Robin Jia	EMNLP Findings 2022
	Knowledge base question answering by case-based reasoning over subgraphs Rajarshi Das, Ameya Godbole, Ankita Naik, Elliot Tower, Manzil Zaheer,	ICML 2022

Hannaneh Hajishirzi, Robin Jia, and Andrew McCallum

On the Robustness of Reading Comprehension Models to Entity Renaming

Jun Yan, Yang Xiao, Sagnik Mukherjee, Bill Yuchen Lin, Robin Jia, and Xiang Ren
NAACL 2022

Models in the Loop: Aiding Crowdworkers with Generative Annotation Assistants

Max Bartolo, Tristan Thrush, Sebastian Riedel, Pontus Stenetorp, Robin Jia, and Douwe Kiela
NAACL 2022

Question Answering Infused Pre-training of General-Purpose Contextualized Representations

Robin Jia, Mike Lewis, and Luke Zettlemoyer
ACL Findings 2022

Analyzing Dynamic Adversarial Training Data in the Limit

Eric Wallace, Adina Williams, Robin Jia, and Douwe Kiela
ACL Findings 2022

On Continual Model Refinement in Out-of-Distribution Data Streams

Bill Yuchen Lin, Sida Wang, Xi Victoria Lin, Robin Jia, Lin Xiao, Xiang Ren, and Scott Yih
ACL 2022

Dynaboard: An Evaluation-As-A-Service Platform for Holistic Next-Generation Benchmarking

Zhiyi Ma*, Kawin Ethayarajh*, Tristan Thrush*, Somya Jain, Ledell Wu, Robin Jia, Christopher Potts, Adina Williams, and Douwe Kiela
NeurIPS 2021

Masked Language Modeling and the Distributional Hypothesis: Order Word Matters Pre-training for Little

Koustuv Sinha, Robin Jia, Dieuwke Hupkes, Joelle Pineau, Adina Williams, and Douwe Kiela
EMNLP 2021

Improving Question Answering Model Robustness with Synthetic Adversarial Data Generation

Max Bartolo, Tristan Thrush, Robin Jia, Sebastian Riedel, Pontus Stenetorp, and Douwe Kiela
EMNLP 2021

To What Extent do Human Explanations of Model Behavior Align with Actual Model Behavior?

Grusha Prasad, Yixin Nie, Mohit Bansal, Robin Jia, Douwe Kiela, and Adina Williams
BlackBoxNLP 2021

The statistical advantage of automatic NLG metrics at the system level

Johnny Tian-Zheng Wei and Robin Jia
ACL 2021

Evaluation Examples Are Not Equally Informative: How Should That Change NLP Leaderboards?

Pedro Rodriguez, Joe Barrow, Alexander Hoyle, John P. Lalor, Robin Jia, and Jordan Boyd-Graber
ACL 2021

Do Explanations Help Users Detect Errors in Open-Domain QA? An Evaluation of Spoken vs. Visual Explanations

Ana Valeria Gonzalez, Gagan Bansal, Angela Fan, Yashar Mehdad, Robin Jia, and Srinivasan Iyer
ACL Findings 2021

Swords: A Benchmark for Lexical Substitution with Improved Data Coverage and Quality

Mina Lee*, Chris Donahue*, Robin Jia, Alexander Iyabor, and Percy Liang
NAACL 2021

Dynabench: Rethinking Benchmarking in NLP

Douwe Kiela, Max Bartolo, Yixin Nie, Divyansh Kaushik, Atticus Geiger,
NAACL 2021

Zhengxuan Wu, Bertie Vidgen, Grusha Prasad, Amanpreet Singh, Pratik Ringshia, Zhiyi Ma, Tristan Thrush, Sebastian Riedel, Zeerak Waseem, Pontus Stenetorp, Robin Jia, Mohit Bansal, Christopher Potts, and Adina Williams

On the Importance of Adaptive Data Collection for Extremely Imbalanced Pairwise Tasks

Stephen Mussmann*, Robin Jia*, and Percy Liang

EMNLP Findings 2020

With Little Power Comes Great Responsibility

Dallas Card, Peter Henderson, Urvashi Khandelwal, Robin Jia, Kyle Mahowald, and Dan Jurafsky

EMNLP 2020

Selective Question Answering under Domain Shift

Amita Kamath, Robin Jia, and Percy Liang

ACL 2020

Robust Encodings: A Framework for Combating Adversarial Typos

Erik Jones, Robin Jia*, Aditi Raghunathan*, and Percy Liang

ACL 2020

Certified Robustness to Adversarial Word Substitutions

Robin Jia, Aditi Raghunathan, Kerem Göksel, Percy Liang

EMNLP 2019

MRQA 2019 Shared Task: Evaluating Generalization in Reading Comprehension

Adam Fisch, Alon Talmor, Robin Jia, Minjoon Seo, Eunsol Choi, and Danqi Chen

MRQA 2019

Document-Level N-ary Relation Extraction with Multiscale Representation Learning

Robin Jia, Cliff Wong, and Hoifung Poon

NAACL 2019

Know What You Don't Know: Unanswerable Questions for SQuAD

Pranav Rajpurkar*, Robin Jia*, and Percy Liang

ACL 2018

Best Short Paper Award.

Delete, Retrieve, Generate: A Simple Approach to Sentiment and Style Transfer

Juncen Li, Robin Jia, He He, and Percy Liang

NAACL 2018

Adversarial Examples for Evaluating Reading Comprehension Systems

Robin Jia and Percy Liang

EMNLP 2017

Outstanding Paper Award.

Learning Concepts through Conversations in Spoken Dialogue Systems

Robin Jia, Larry Heck, Dilek Hakkani-Tür, and Georgi Nikolov

ICASSP 2017

Data Recombination for Neural Semantic Parsing

Robin Jia and Percy Liang

ACL 2016

"Reverse Genomics" Predicts Function of Human Conserved Noncoding Elements

Amir Marcovitz, Robin Jia, and Gill Bejerano

MBE 2016

Mx1 and Mx2 Key Antiviral Proteins are Surprisingly Lost in Toothed Whales

Benjamin A. Braun, Amir Marcovitz, J. Gray Camp, Robin Jia, and Gill Bejerano

PNAS 2015

Note: * denotes equal contribution.

Students Supervised

Ph.D. students

Johnny Tian-Zheng Wei	Jan 2021 – present	
Ameya Godbole	Aug 2021 – present	
Wang (Bill) Zhu	Oct 2021 – present	Joint with Jesse Thomason
Ting-Yun (Charlotte) Chang	Jan 2022 – present	Joint with Jesse Thomason
Deqing Fu	Mar 2023 – present	Joint with Vatsal Sharan

Masters and undergraduate students

Rahel Selemon (Brown UG)	Jun 2023 – Present	
Qilin Ye (USC UG)	Jun 2023 – Present	
Ryan Wang (USC UG)	Apr 2023 – Present	
Tianqi Chen (USC MS)	Mar 2023 – Present	
Anthony Sauer (USC UG)	Jan 2023 – Present	
Yuan Huang (USC MS)	Jun 2022 – Present	
Harvey Fu (USC UG)	May 2022 – Present	Provost’s Research Fellowship
Adam Reynolds (USC MS)	Aug 2021 – Dec 2021	
Amita Kamath (Stanford MS)	Sep 2018 – Jun 2020	Now: UCLA Ph.D. student
Erik Jones (Stanford UG)	Jun 2019 – Dec 2019	Now: UC Berkeley Ph.D. student
Kerem Göksel (Stanford MS)	Jan 2019 – Jun 2019	Now: Semantic Machines

Ph.D. qualifying exam committee member: Hexiang Hu, Yury Zemlyanskiy, Zalan Fabian, Negar Mokhberian, Michiel de Jong, Pei Zhou, Qinyuan Ye, Jun Yan, Ming-Chang Chiu, Xisen Jin, Fei Wang, Yun Cheng Wang, Soumya Sanyal, Jake Bremner, Johnny Wei, Bingyi Zhang, Ali Omrani, Lee Kezar, Wang Zhu (19 total).

Ph.D. thesis proposal committee member: Hexiang Hu, Yury Zemlyanskiy, Yuchen Lin, Aaron Chan, Wenxuan Zhou, Michiel de Jong, Woojeong Jin (7 total).

Ph.D. thesis defense committee member: Yury Zemlyanskiy, Hanqing Zeng, Aaron Chan, Wenxuan Zhou, (4 total).

M.S. thesis committee member: Jeong Hyun An, Abid Hassan (2 total).

Teaching

Instructor, CSCI 467: Introduction to Machine Learning
University of Southern California, Los Angeles, CA Spring 2023

Instructor, CSCI 699: Generalization and Robustness in Natural Language Processing
University of Southern California, Los Angeles, CA Spring 2022

Teaching Fellow, CS 221 (Artificial Intelligence)
Stanford University, Stanford, CA Summer 2019
Instructor for 100-student class on artificial intelligence.

Teaching Assistant, CS 124 (Introduction to Natural Language Processing)
Stanford University, Stanford, CA Winter 2018

Head Teaching Assistant, CS 221 (Artificial Intelligence)
Stanford University, Stanford, CA Fall 2015
Head TA of 550-student class, managed a team of 18 TA’s.

Section Leader, CS 106A (Introduction to Programming)
Stanford University, Stanford, CA Winter 2012
Taught a section of twelve students, graded assignments and exams.

Tutor, Stanford University Mathematical Organization
Stanford University, Stanford, CA Winter 2011 – Spring 2012
Tutored students in linear algebra and multivariable calculus. Served as coordinator of the tutoring program from September 2011 to June 2012.

Professional Service

Co-instructor of Tutorial on Uncertainty Estimation for Natural Language Processing at COLING 2022.

Co-organizer of the First Workshop on Dynamic Adversarial Data Collection (DADC) at NAACL 2022.

Co-organizer of the Third Workshop on Machine Reading and Question Answering (MRQA) at

EMNLP 2021.

Co-instructor of Tutorial on Robustness and Adversarial Examples in Natural Language Processing at EMNLP 2021.

Co-organizer of the Second Workshop on Machine Reading and Question Answering (MRQA) at EMNLP 2019.

Co-organizer of the First Workshop on Machine Reading and Question Answering (MRQA) at ACL 2018.

Area chair for ACL (2021, 2023), EMNLP (2021, 2022, 2023), NAACL (2021), and AKBC (2021).

Reviewer for ACL Rolling Review (2021, 2022, 2023), ACL (2018, 2019, 2020), EMNLP (2018, 2019, 2020), NAACL (2019), TACL (2022, 2023), EACL (2022), AACL (2020), ICML (2019), CoNLL (2018), AKBC (2019, 2022), RobustSeq Workshop (2022), ML Safety Workshop (2022), DistShift Workshop (2021, 2022), BlackboxNLP Workshop (2021, 2022, 2023), Repl4NLP Workshop (2021, 2023), ACL Student Research Workshop (2021), RobustML Workshop (2021), EMNLP DeepLo Workshop (2019), and NAACL GenDeep Workshop (2018). Outstanding Reviewer for EMNLP 2020.

Other	Frederick Emmons Terman Engineering Scholastic Award , Stanford University	2014
	Finalist, Lunsford Oral Presentation of Research Award , Stanford University	2012
	Finalist, Boothe Prize for Excellence in Writing , Stanford University	2011
	Top 500 Scorer, William Lowell Putnam Mathematical Competition	2011
	Three-time Qualifier, USA Mathematics Olympiad	2008–2010
	Top Twenty Finalist, US National Chemistry Olympiad	2009