Robin Ji	Robin Jia					
	Email: robinjia@usc.edu Address: 941 Bloc Website: https://robinjia.github.io/ Off	Dem Walk, Los Angeles, CA 90089 fice: SAL 236 Phone: (213) 740-5906				
Education	Stanford University Ph.D. in Computer Science Advisor: Percy Liang Thesis: Building Robust Natural Language Processing	September 2014 – August 2020 Systems				
	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, Los Angeles, CA	University of Southern California 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	2023 - 2024 2023 - 2024 2021 - 2024 ACL 2018 EMNLP 2017 a Fellow 2014 - 2019				
Publications	Do Localization Methods Actually Localize Men Ting-Yun Chang, Jesse Thomason, and Robin Jia	norized Data in LLMs? NAACL 2024				
	Efficient End-to-End Visual Document Understa Wang Zhu, Alekh Agarwal, Mandar Joshi, Robin Jia, J and Kristina Toutanova	anding with Rationale Distillation esse Thomason, NAACL 2024				
	Chain-of-Questions Training with Latent Answer Robust Multistep Question Answering Wang Zhu, Jesse Thomason, and Robin Jia	rs for EMNLP 2023				
	SCENE: Self-Labeled Counterfactuals for Extrap Deqing Fu, Ameya Godbole, and Robin Jia	polating to Negative Examples EMNLP 2023				
	Estimating Large Language Model Capabilities Harvey Yiyun Fu, Qinyuan Ye, Albert Xu, Xiang Ren,	without Labeled Test Data and Robin Jia EMNLP Findings 2023				
	How Predictable Are Large Language Model Ca A Case Study on BIG-bench Qinyuan Ye, Harvey Yiyun Fu, Xiang Ren, and Robin .	pabilities? Jia EMNLP Findings 2023				
	Data Curation Alone Can Stabilize In-context L Ting-Yun Chang and Robin Jia	earning ACL 2023				

Contrastive Novelty-Augmented Learning: Anticipating Outliers wit	h
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 Bench Nelson F. Liu, Tony Lee, Robin Jia, and Percy Liang	amarks? ACL 2023
Does VLN Pretraining Work with Nonsensical or Irrelevant Instruct Wang Zhu, Ishika Singh, Yuan Huang, Robin Jia, and Jesse Thomason	Cions? O-DRUM 2023
Benchmarking Long-tail Generalization with Likelihood SplitsAmeya Godbole and Robin JiaEA	ACL Findings 2023
Generalization Differences between End-to-End and Neuro-Symbolic	2
Vision-Language Reasoning SystemsWang Zhu, Jesse Thomason, and Robin JiaEMN	NLP Findings 2022
Knowledge base question answering by case-based reasoning over sul Rajarshi Das, Ameya Godbole, Ankita Naik, Elliot Tower, Manzil Zaheer, Hannaneh Hajishirzi, Robin Jia, and Andrew McCallum	bgraphs ICML 2022
On the Robustness of Reading Comprehension Models to Entity Rea Jun Yan, Yang Xiao, Sagnik Mukherjee, Bill Yuchen Lin, Robin Jia, and Xiang Ren	naming NAACL 2022
Models in the Loop: Aiding Crowdworkers with Generative Annotat Max Bartolo, Tristan Thrush, Sebastian Riedel, Pontus Stenetorp, Robin Jia, and Douwe Kiela	tion Assistants NAACL 2022
Question Answering Infused Pre-training of General-Purpose Contextualized Representations Robin Jia, Mike Lewis, and Luke ZettlemoyerA	ACL Findings 2022
Analyzing Dynamic Adversarial Training Data in the LimitEric Wallace, Adina Williams, Robin Jia, and Douwe Kiela	ACL Findings 2022
On Continual Model Refinement in Out-of-Distribution Data Stream 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?BilackBoxNLPGrusha Prasad, Yixin Nie, Mohit Bansal, Robin Jia, Douwe Kiela,BlackBoxNLPand Adina WilliamsBlackBoxNLP	2021
The statistical advantage of automatic NLG metrics at the system levelJohnny Tian-Zheng Wei and Robin JiaACL	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	2021
Do Explanations Help Users Detect Errors in Open-Domain QA?An Evaluation of Spoken vs. Visual ExplanationsAna Valeria Gonzalez, Gagan Bansal, Angela Fan, Yashar Mehdad,Robin Jia, and Srinivasan Iyer	2021
Swords: A Benchmark for Lexical Substitution with Improved Data Coverage and Quality Mina Lee*, Chris Donahue*, Robin Jia, Alexander Iyabor, and Percy LiangNAACL	2021
Dynabench: Rethinking Benchmarking in NLP Douwe Kiela, Max Bartolo, Yixin Nie, Divyansh Kaushik, Atticus Geiger, NAACL Zhengxuan Wu, Bertie Vidgen, Grusha Prasad, Amanpreet Singh, Pratik Ringshia, Zhiyi Tristan Thrush, Sebastian Riedel, Zeerak Waseem, Pontus Stenetorp, Robin Jia, Mohit Ba Christopher Potts, and Adina Williams	2021 Ma, nsal,
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 ResponsibilityEMNLPDallas Card, Peter Henderson, Urvashi Khandelwal, Robin Jia,EMNLPKyle Mahowald, and Dan JurafskyEMNLP	2020
Selective Question Answering under Domain ShiftAmita Kamath, Robin Jia, and Percy LiangACL	2020
Robust Encodings: A Framework for Combating Adversarial TyposErik Jones, Robin Jia*, Aditi Raghunathan*, and Percy LiangACL	2020
Certified Robustness to Adversarial Word SubstitutionsRobin Jia, Aditi Raghunathan, Kerem Göksel, Percy LiangEMNLP	2019
MRQA 2019 Shared Task: Evaluating Generalization in Reading Comprehension Adam Fisch, Alon Talmor, Robin Jia, Minjoon Seo, Eunsol Choi, and Danqi Chen MRQA	ι 2019
Document-Level N-ary Relation Extraction with Multiscale Representation Learning Robin Jia, Cliff Wong, and Hoifung PoonNAACL	2019
Know What You Don't Know: Unanswerable Questions for SQuADPranav Rajpurkar*, Robin Jia*, and Percy LiangACLBest Short Paper Award.ACL	2018
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.

Grants

Students

Supervised

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 ACL 2016 Robin Jia and Percy Liang "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. Google Research Scholar Award, Google, \$60,000 PI: Robin Jia May 2023 - May 2024 Title: Stabilizing In-Context Learning by Understanding the Value of Demonstrations Cisco Research Award, Cisco, \$70,000 PI: Robin Jia Apr 2023 – Apr 2024 Title: Estimating Large Language Model Capabilities without Labeled Data Open Philanthropy Research Grant, Open Philanthropy, \$320,000 PI: Robin Jia Aug 2021 – Aug 2024 Title: Adversarial Robustness Research 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 Mar 2023 – present Deqing Fu Joint with Vatsal Sharan

Masters and undergraduate students

Daniel Firebanks-Quevedo		
(USC MS)	Jan 2024 – Present	
Gustavo Adolpho Lucas		
De Carvalho (USC MS)	Jan 2024 – Present	
Tianyu Wang (USC UG)	Aug 2023 – Dec 2023	
Rahel Selemon (Brown UG)	Jun 2023 – Aug 2023	
Qilin Ye (USC UG)	Jun 2023 – Present	
Ryan Wang (USC UG)	Apr 2023 – Present	Provost's Research Fellowship
Tianqi Chen (USC MS)	Mar 2023 – Present	
Anthony Sauer (USC UG)	Jan 2023 – Mar 2024	
Yuan Huang (USC MS)	Jun 2022 – Oct 2023	
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

Faculty research project mentor for CAIS++ students Leslie Moreno, Aryan Gulati, and Aditya Kumar.

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 Bremerman, Johnny Wei, Bingyi Zhang, Ali Omrani, Lee Kezar, Wang Zhu, Brihi Joshi, Ting-Yun Chang, Justin Cho (22 total).

Ph.D. thesis proposal committee member: Hexiang Hu, Yury Zemlyanskiy, Yuchen Lin, Aaron Chan, Wenxuan Zhou, Michiel de Jong, Woojeong Jin, Ming-Chang Chiu, Jun Yan, Fei Wang, Xisen Jin, Ali Omrani (12 total).

Ph.D. thesis defense committee member: Yury Zemlyanskiy, Hanqing Zeng, Aaron Chan, Wenxuan Zhou, Yun-Cheng Wang (5 total).

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

TeachingInstructor, CSCI 467: Introduction to Machine Learning
University of Southern California, Los Angeles, CASpring 2023, Fall 2023, and Spring 2024Instructor, CSCI 699: Generalization and Robustness in Natural Language Processing

University of Southern California, Los Angeles, CA Spring 2022

Summer 2019

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

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

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

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

Tutor, Stanford University Mathematical OrganizationStanford University, Stanford, CAWinter 2011 – Spring 2012Tutored students in linear algebra and multivariable calculus. Served as coordinator of the tutoringprogram from September 2011 to June 2012.

Professional Service

General Chair for 2023 SoCal NLP Symposium.

Steering Committee member for Workshop on Instruction Tuning and Instruction Following at NeurIPS 2023.

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, 2024), EMNLP (2021, 2022, 2023), NAACL (2021), and AKBC (2021).

Reviewer for ACL Rolling Review (2021, 2022, 2023, 2024), ACL (2018, 2019, 2020), EMNLP (2018, 2019, 2020), NAACL (2019), TACL (2022, 2023, 2024), EACL (2022), AACL (2020), ICML (2019), CoNLL (2018), AKBC (2019, 2022), RobustSeq Workshop (2022), ML Safety Workshop (2022), DistShift Workshop (2021, 2022, 2023), BlackboxNLP Workshop (2021, 2022, 2023), Repl4NLP Workshop (2021, 2023), GenBench Workshop (2023), ACL Student Research Workshop (2021), RobustML Workshop (2021), EMNLP DeepLo Workshop (2019), and NAACL GenDeep Workshop (2018). Outstanding Reviewer for EMNLP 2020.

NSF panel reviewer.

Invited Talks	Knowing Machines Podcast	Oct 2023
	CHAI Workshop Plenary Talk	Jun 2023
	Capital One Research Invited Talk	Jun 2023
	UC Irvine AI/ML Seminar	May 2022
	Amazon Research Invited Talk	Apr 2022
	Princeton NLP Group Seminar	Jul 2021
	NLP Highlights Podcast	${\rm Mar}~2021$
	USC ISI Seminar	Feb 2021
	UC Santa Barbara NLP Seminar	Feb 2021
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

Three-time Qualifier, USA Mathematics Olympiad Top Twenty Finalist, US National Chemistry Olympiad $\begin{array}{c} 2011\\ 2008{-}2010\end{array}$

2009