

Alexis J. Ross

alexisro@mit.edu

<https://alexisjihyeross.github.io/>

EDUCATION	Massachusetts Institute of Technology , Cambridge, Massachusetts Ph.D. in EECS	Sept 2022 –
	Harvard University , Cambridge, Massachusetts A.B. with Honors in Computer Science and Philosophy (Joint)	Sept 2016 – May 2020
RESEARCH EXPERIENCE	Allen Institute for AI (AI2), AllenNLP Predoctoral Researcher <i>Mentors:</i> Ana Marasović and Matthew E. Peters	July 2020 – July 2022
	Harvard University, Computer Science and Philosophy <i>Mentors:</i> Himabindu Lakkaraju and Bernhard Nickel <i>Senior Thesis:</i> Using Linear Approximations to Explain Complex, Blackbox Classifiers	Sept 2019 – May 2020
	Microsoft Research Research Intern, Project Hanover <i>Mentor:</i> Tristan Naumann <i>Project:</i> Machine Reading for Precision Medicine	May 2019 – Aug 2019
	Harvard University, NLP Group Research Assistant <i>Mentors:</i> Yonatan Belinkov and Alexander Rush <i>Project:</i> Probing for Neurons that Encode and Exploit Negation in BERT	March 2019 – May 2019
	Johns Hopkins, Center for Language and Speech Processing Undergraduate Researcher, JSALT Workshop <i>Mentor:</i> Ellie Pavlick <i>Project:</i> General-Purpose Sentence Representation Learning	June 2018 – Aug 2018
	Harvard University, Cognitive Neuropsychology Laboratory Research Assistant <i>Mentors:</i> Gilles Vannuscorps and Alfonso Caramazza <i>Project:</i> Object Orientation Perception	Feb 2017 – Aug 2017
PUBLICATIONS	<ul style="list-style-type: none">[1] Does Self-Rationalization Improve Robustness to Spurious Correlations?. Alexis Ross, Matthew Peters, Ana Marasović. <i>EMNLP</i>, 2022.[2] Tailor: Generating and Perturbing Text with Semantic Controls. Alexis Ross*, Tongshuang Wu*, Hao Peng, Matthew Peters, Matt Gardner. <i>ACL</i>, 2022.[3] Learning Models for Actionable Recourse. Alexis Ross, Himabindu Lakkaraju, and Osbert Bastani. <i>NeurIPS</i>, 2021.[4] Competency Problems: On Finding and Removing Artifacts in Language Data. Matt Gardner*, William Merrill*, Jesse Dodge, Matthew E. Peters, Alexis Ross, Sameer Singh, Noah Smith. <i>EMNLP</i>, 2021.[5] Explaining NLP Models via Minimal Contrastive Editing (MiCE). Alexis Ross, Ana Marasović, and Matthew E. Peters. <i>Findings of ACL</i>, 2021.[6] How well do NLI models capture verb veridicality? Alexis Ross and Ellie Pavlick. <i>EMNLP 2019</i>. Oral presentation.[7] Probing what different NLP tasks teach machines about function word comprehension. Najoung Kim, Roma Patel, Adam Poliak, Alex Wang, Patrick Xia, R Thomas McCoy, Ian Tenney,	

Alexis Ross, Tal Linzen, Benjamin Van Durme, Samuel R Bowman, and Ellie Pavlick. **SEM 2019. Best Paper Award.*

SELECTED HONORS	2022	MIT Shillman Fellowship	
	2020	Hoopes Prize “for extraordinary undergraduate research,” awarded for senior thesis	
	2019	EMNLP Student Travel Scholarship	
	2018	Certificate of Distinction in Teaching for a student evaluation of 4.8/5.0	
SERVICE	2022	Mentor , MIT EECS Graduate Application Assistance Program (GAAP)	
	2021	Co-organizer and frequent host, NLP Highlights Podcast, over 9000 views in October	
	2021	Co-organizer and frequent host, NLP Highlights Podcast, over 9000 views in October	
	2021	Co-organizer , AllenNLP Hacks, a hackathon for minoritized students Presented workshop: “My First NLP Project”	
	2021	Secondary Reviewer , ACL	
	2019	Mentor , Harvard Women in Computer Science	
TEACHING EXPERIENCE	CS 121: Introduction to the Theory of Computation		Sept 2018 – Dec 2018
	Teaching Fellow, Harvard School of Engineering and Applied Sciences <i>Instructor:</i> Boaz Barak		
OTHER EXPERIENCE	Solo, Chamber, and Orchestral Violinist		2002 – 2020
	2016 – 2018	Violinist in the Harvard-Radcliffe Orchestra	
	2016 – 2020	Chamber Music Performance at Harvard. Coaches: Parker Quartet	
	2014 – 2016	Juilliard Pre-College, Diploma in Violin Performance. Teacher: Ann Setzer	
	2013 – 2015	Summers at the Meadowmount School of Music	
	Mental Health Advocacy and Counseling, Harvard University		2017 – 2020
	2017 – 2020	Events Co-Chair, Student Mental Health Liaisons	
	2018 – 2020	Peer Mental Health Counselor, Room 13	