

# Alexis J. Ross

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

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EDUCATION	<b>Massachusetts Institute of Technology</b> , Cambridge, Massachusetts Ph.D. in EECS <i>Advisor:</i> Jacob Andreas	Sept 2022 – Present
	<b>Harvard University</b> , Cambridge, Massachusetts A.B. with Honors in Computer Science and Philosophy (Joint)	Sept 2016 – May 2020
RESEARCH EXPERIENCE	<b>Allen Institute for AI (AI2), AllenNLP</b> Predoctoral Researcher <i>Mentors:</i> Ana Marasović and Matthew E. Peters	July 2020 – July 2022
	<b>Harvard University, Computer Science and Philosophy</b> <i>Mentors:</i> Himabindu Lakkaraju and Bernhard Nickel <i>Senior Thesis:</i> Using Linear Approximations to Explain Complex, Blackbox Classifiers	Sept 2019 – May 2020
	<b>Microsoft Research</b> Research Intern, Project Hanover <i>Mentor:</i> Tristan Naumann <i>Project:</i> Machine Reading for Precision Medicine	May 2019 – Aug 2019
	<b>Johns Hopkins, Center for Language and Speech Processing</b> Undergraduate Researcher, JSALT Workshop <i>Mentor:</i> Ellie Pavlick <i>Project:</i> General-Purpose Sentence Representation Learning	June 2018 – Aug 2018
	<b>Harvard University, Cognitive Neuropsychology Laboratory</b> 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"><li>[1] <a href="#">Does Self-Rationalization Improve Robustness to Spurious Correlations?</a>. <b>Alexis Ross</b>, Matthew Peters, Ana Marasović. <i>EMNLP</i>, 2022.</li><li>[2] <a href="#">Tailor: Generating and Perturbing Text with Semantic Controls</a>. <b>Alexis Ross*</b>, Tongshuang Wu*, Hao Peng, Matthew Peters, Matt Gardner. <i>ACL</i>, 2022.</li><li>[3] <a href="#">Learning Models for Actionable Recourse</a>. <b>Alexis Ross</b>, Himabindu Lakkaraju, and Osbert Bastani. <i>NeurIPS</i>, 2021.</li><li>[4] <a href="#">Competency Problems: On Finding and Removing Artifacts in Language Data</a>. Matt Gardner*, William Merrill*, Jesse Dodge, Matthew E. Peters, <b>Alexis Ross</b>, Sameer Singh, Noah Smith. <i>EMNLP</i>, 2021.</li><li>[5] <a href="#">Explaining NLP Models via Minimal Contrastive Editing (MiCE)</a>. <b>Alexis Ross</b>, Ana Marasović, and Matthew E. Peters. <i>Findings of ACL</i>, 2021.</li><li>[6] <a href="#">How well do NLI models capture verb veridicality?</a> <b>Alexis Ross</b> and Ellie Pavlick. <i>EMNLP 2019</i>. <b>Oral presentation</b>.</li><li>[7] <a href="#">Probing what different NLP tasks teach machines about function word comprehension</a>. Najoung Kim, Roma Patel, Adam Poliak, Alex Wang, Patrick Xia, R Thomas McCoy, Ian Tenney, <b>Alexis Ross</b>, Tal Linzen, Benjamin Van Durme, Samuel R Bowman, and Ellie Pavlick. <i>*SEM 2019</i>. <b>Best Paper Award</b>.</li></ul>	

SELECTED HONORS	2023	<b>NSF Graduate Research Fellowship</b>	
	2023	<b>Third Prize, Inverse Scaling Competition</b>	
	2022	<b>MIT Shillman Fellowship</b>	
	2020	<b>Thomas T. Hoopes Prize</b> “for extraordinary undergraduate research” (senior thesis)	
	2019	<b>EMNLP Student Travel Scholarship</b>	
	2018	<b>Certificate of Distinction in Teaching</b> for a student evaluation of 4.8/5.0	
INVITED TALKS	Apr. 2023	Towards Model Development with Tailored Supervision, <b>IST &amp; Unbabel Seminars</b>	
	Aug. 2021	Generating and Perturbing Text with Semantic Controls, <b>AI2 (All Hands)</b>	
SERVICE	2022	<b>Co-organizer</b> , cs-sop.org, resource for CS PhD applicants	
	2022	<b>Mentor</b> , MIT EECS Graduate Application Assistance Program (GAAP)	
	2021	<b>Co-organizer</b> and frequent host, NLP Highlights Podcast, over 9000 views in October	
	2021	<b>Co-organizer</b> , AllenNLP Hacks, a hackathon for minoritized students Presented workshop: “My First NLP Project”	
	2021	<b>Secondary Reviewer</b> , ACL	
	2019	<b>Mentor</b> , Harvard Women in Computer Science	
TEACHING EXPERIENCE	<b>CS 121: Introduction to the Theory of Computation</b> Teaching Fellow, Harvard School of Engineering and Applied Sciences <i>Instructor:</i> Boaz Barak		Sept 2018 – Dec 2018
OTHER EXPERIENCE	<b>Solo, Chamber, and Orchestral Violinist</b>		2002 – Present
	2023 –	MIT Chamber Music Society	
	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	
	<b>Mental Health Advocacy and Counseling, Harvard University</b>		2017 – 2020
	2017 – 2020	Events Co-Chair, Student Mental Health Liaisons	
	2018 – 2020	Peer Mental Health Counselor, <a href="#">Room 13</a>	