Alexis J. Ross

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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 *Mentors*: Ana Marasović and Matthew E. Peters	July 2020 – July 2022
	Harvard University, Computer Science and Philosophy *Mentors*: Himabindu Lakkaraju and Bernhard Nickel *Senior Thesis*: Using Linear Approximations to Explain Complex, Blackbox Classifiers	Sept 2019 – May 2020
	Microsoft Research Research Intern, Project Hanover *Mentor*: Tristan Naumann *Project*: Machine Reading for Precision Medicine	May 2019 – Aug 2019
	Johns Hopkins, Center for Language and Speech Processing Undergraduate Researcher, JSALT Workshop *Mentor*: Ellie Pavlick *Project*: General-Purpose Sentence Representation Learning	June 2018 – Aug 2018
	Harvard University, Cognitive Neuropsychology Laboratory Research Assistant *Mentors*: Gilles Vannuscorps and Alfonso Caramazza *Project*: Object Orientation Perception	Feb 2017 – Aug 2017

PUBLICATIONS

[1] Does Self-Rationalization Improve Robustness to Spurious Correlations?.
Alexis Ross, Matthew Peters, Ana Marasović. *EMNLP, 2022.*

[2] Tailor: Generating and Perturbing Text with Semantic Controls.
Alexis Ross*, Tongshuang Wu*, Hao Peng, Matthew Peters, Matt Gardner. *ACL, 2022.*

[3] Learning Models for Actionable Recourse.
Alexis Ross, Himabindu Lakkaraju, and Osbert Bastani. *NeurIPS, 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. *EMNLP, 2021.*

[5] Explaining NLP Models via Minimal Contrastive Editing (MiCE).
Alexis Ross, Ana Marasović, and Matthew E. Peters. *Findings of ACL, 2021.*

[6] How well do NLI models capture verb veridicality?
Alexis Ross and Ellie Pavlick. *EMNLP 2019.* **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**, 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
Instructor: 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