

Matthew Finlayson

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EDUCATION	Harvard University A.B. Cum Laude in Field/Highest Honors in Computer Science and Linguistics (Joint), GPA 3.9/4.0.	Sep 2015–May 2021
RESEARCH	Allen Institute for AI (AI2), Aristo Pre-doctoral researcher advised by Peter Clark and Ashish Sabharwal.	Aug 2021–Present
	Harvard University Computer Science Undergraduate researcher advised by Stuart Shieber and Yonatan Belinkov.	Jan 2019–May 2021
PUBLICATIONS	<ul style="list-style-type: none">[1] “Lila: A Unified Benchmark for Mathematical Reasoning” Matthew Finlayson, Swaroop Mishra, Pan Lu, Leonard Tang, Sean Welleck, Chitta Baral, Tanmay Rajpurohit, Oyvind Tafjord, Ashish Sabharwal, Peter Clark, and Ashwin Kalyan. <i>EMNLP 2022</i>.[2] “What Makes Instruction Learning Hard? An Investigation and a New Challenge in a Synthetic Environment” Matthew Finlayson, Kyle Richardson, Ashish Sabharwal, and Peter Clark. <i>EMNLP 2022</i>.[3] “Causal Analysis of Syntactic Agreement Mechanisms in Neural Language Models” Matthew Finlayson, Aaron Mueller, Sebastian Gehrmann, Stuart Shieber, Tal Linzen, and Yonatan Belinkov. <i>ACL 2021</i>.[4] “Decomposed Prompting: A Modular Approach for Solving Complex Tasks” Tushar Khot, Harsh Trivedi, Matthew Finlayson, Yao Fu, Kyle Richardson, Peter Clark, and Ashish Sabharwal. <i>ArXiv 2022</i>.	
INVITED TALKS	Formal Languages and Neural Networks (FLaNN) <i>What can formal languages tell us about instruction learning?</i>	Nov 2022
	Allen Institute for AI (AI2) <i>Lila: A Unified Benchmark for Mathematical Reasoning</i>	Sep 2022
	ACL-IJCNLP Main Conference <i>Causal Analysis of Syntactic Agreement Mechanisms in Neural Language Models</i>	Aug 2021
TEACHING	Harvard School of Engineering and Applied Sciences	
	CS-51: Abstraction and Design in Computation Head Teaching Fellow	Jan 2020–May 2021
	CS-187: Computational Linguistics and NLP Curriculum developer, Teaching Fellow	Sep 2019–Dec 2020
SERVICE	MathNLP @ EMNLP Program Committee	EMNLP, NeurIPS, MATH-AI 2022 Reviewing
EXPERIENCE	Microsoft, Natural Language Experiences, SWE Intern Improved and personalized text prediction in Microsoft Office.	Jun–Aug 2020
	Hikma Health, SWE Intern Developed a mobile electronic health record system for healthcare professionals working with refugees.	Jun–Aug 2019

OTHER

Harvard First-Year Outdoor Program

Aug 2018–May 2021

Mentored incoming first-year students on week-long backpacking trips.

Harvard Sailing Club

Aug 2018–May 2021

Vice President. Taught sailing basics to beginners weekly.

Harvard Outing Club

Aug 2015–May 2021

Led regular hiking trips to improve outdoor access for Harvard affiliates.

Computer languages: Python, OCaml, few-shot prompting ;)

Human languages: English, Tagalog, some Vietnamese, some Spanish

Hobbies: mechanical keyboards, configuring Vim, camping, sailing, sketching