JOSHUA ROBINSON

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RESEARCH INTERESTS

I am interested in evaluating and eliciting capabilities in large, pre-trained sequence models, as well as leveraging insights from interpretability research to develop better model architectures and training/inference strategies.

EDUCATION

University of Southern California — August 2022 - Present
Ph.D. in Computer Science — GPA: 4.0/4.0
Advisor: Prof. Dani Yogatama
Recipient of USC Annenberg Fellowship

Brigham Young University — August 2020 - August 2022
M.S. in Computer Science — GPA: 4.0/4.0
Advisor: Prof. David Wingate

Brigham Young University — August 2016 - April 2020
B.S. in Statistics — GPA: 4.0/4.0
Minors in Chinese, Computer Science, and Mathematics

PUBLICATIONS

[1] On Retrieval Augmentation and the Limitations of Language Model Training
Ting-Rui Chiang, Xinyan Velocity Yu, **Joshua Robinson**, Ollie Liu, Isabelle Lee, Dani Yogatama
NAACL 2024

[2] Leveraging Large Language Models for Multiple Choice Question Answering
Joshua Robinson, Christopher Michael Rytting, David Wingate
ICLR 2023

[3] An Information-theoretic Approach to Prompt Engineering Without Ground Truth Labels
Taylor Sorensen*, **Joshua Robinson***, Christopher Michael Rytting*, Alexander Glenn Shaw, Kyle Jeffrey Rogers,
Alexia Pauline Delorey, Mahmoud Khalil, Nancy Fulda, David Wingate
ACL 2022

* denotes equal contribution

WORK EXPERIENCE

Reka AI — May 2023 - August 2023
Research Intern — Remote

TEACHING EXPERIENCE

- Teaching assistant for Machine Learning (CSCI 567) at USC — Fall 2023
- Teaching assistant for Introduction to Artificial Intelligence (CS 470) at BYU — Fall 2019
- Teaching assistant for Advanced Mandarin Chinese (CHIN 302) at BYU — Fall 2018, Spring 2019

SERVICE & LEADERSHIP

- Reviewer for SoCal NLP 2022; NeurIPS 2023; ICML 2023, 2024; and COLM 2024
- Vice President in BYU Data Science Club from September 2018 to April 2019