

## EDUCATION

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- 2019–Present **Candidate, Doctor of Philosophy in Computer Science**, University of Southern California  
Focus: NLP for Sign Language. Advised by Dr. Jesse Thomason [[Lab Homepage](#)]
- 2019–2022 **Master of Science in Computer Science**, University of Southern California
- 2015–2019 **Bachelor of Science in Computer Science**, Rhodes College (Psychology minor)

## RESEARCH & TEACHING EXPERIENCE

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- 2019–Present **Graduate Research Assistant**, University of Southern California  
→ Improved models for isolated sign recognition by 8% via modeling phonology.  
→ Improved a reproducibility detector's accuracy by 6% by modeling document pragmatics.  
→ Developed a method for locating and quantifying knowledge gaps in language models.
- 2023–Present **Visiting Scholar**, Boston University  
→ Released The Sem-Lex Benchmark, the largest benchmark for sign recognition with 91k videos.  
→ Developed a purely data-driven model of ASL phonology with unsupervised ML.
- 2022–2023 **Research Fellow**, Neuropsychology Foundation  
→ Collected experimental evidence for the Talbot-Plateau principle using specialized equipment.  
→ Studied letter recognition across varying frequencies, duty cycles, brightnesses, and durations.
- 2019–2022 **Graduate Teaching Assistant**, University of Southern California  
→ Helped teach a variety of undergraduate courses, such as Operating Systems.  
→ Managed teams of graders, lead lectures, held office hours, and created exams for these courses.
- 2017–2019 **Manager for Marketing and Outreach**, DeafConnect of the Mid-South  
→ Connected deaf individuals with career and wellness resources, e.g. workshops and counseling.  
→ Managed the company's internet presence and represented the organization on local news.  
→ Organized community-based events, such as teaching American Sign Language.
- 2017–2018 **Deaf Studies Fellow**, Rhodes College  
→ Organized monthly events to expose deaf children to storytelling in American Sign Language.  
→ Conducted literature reviews and informal research on Deaf culture and sign language.
- 2016–2019 **Computer Science Instructor**, Code Crew  
→ Taught programming fundamentals and app and website development to 5th–12th graders.  
→ Mentored youth interested in tech leadership

## SKILLS

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ML, NLP	Python, PyTorch, TensorFlow, scikit-learn
Conceptual	neurosymbolic, unsupervised, and semi-supervised learning, computer vision
Languages	English (Native), American Sign Language (CEFR: B2), Spanish (CEFR: B1)
Other	teaching, mentorship, small team management, marketing

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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- 2021– **Mentor**, Center for Undergraduate Research in Viterbi Engineering
- 2021 **Facilitator**, Justice, Equity, Diversity, and Inclusion Program, University of Southern California
- 2020 **Student Representative**, Committee on Diversity, Equity, and Inclusion, Information Sciences Institute
- 2018 **President**, Computer Science Club, Rhodes College
- 2018–2019 **Ordained Ruling Elder**, Presbyterian Church of the United States of America