

Jacob Johnson

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Academic Publications

“Online Learning of ITSL Grammars” (SCiL 2024)

- Coauthored with Aniello De Santo
- I developed, implemented, and evaluated an algorithm for learning ITSL languages

“How much Consistency is your Accuracy Worth?” (BlackBoxNLP@EMNLP2023)

- Coauthored with Ana Marasović
- I developed *Relative Consistency*, a probabilistic measurement to compare consistency of models at different levels of accuracy

“Evaluating a Phonotactic Learner for MITSL-(2,2) Languages” (SCiL 2023)

- Coauthored with Aniello De Santo
- I implemented and evaluated the MITSL2IA learning algorithm for learning MITSL₂ languages

“The Effects of Exposure and Explicit Stereotypes on Veracity Judgments of Polish-Accented English Speech: A Replication and Extension of Boduch-Grabka & Lev-Ari (2021)” (Studies in Second Language Acquisition, March 2024)

- Coauthored with Rachel Hayes-Harb of Speech Acquisition Lab, and a large team of undergraduates
- I substantially contributed to developing the interface for data collection in the online study

Education

M.S. in Computer Engineering, Weber State University Fall 2024 – Present

- Currently taking MS Computer Engineering Prerequisites: ECE 3610 “Digital Systems”, ECE 1270 “Introduction to Electrical Circuits”
- Spring 2025 planned courses include: ECE 3710 “Embedded Systems”, ECE 2260 “Fundamentals of Electrical Circuits”

Ph.D. in Computer Science, University of Utah Fall 2023 – Spring 2024

- Ended the program early to change topic of interest
- Cumulative GPA of 4.0
- Courses Include: CS 6350 “Machine Learning”, CS 6150 “Graduate Algorithms”

B.A. in Linguistics + CS minor, University of Utah Spring 2020 – Spring 2023

- Cumulative GPA of 4.0
- Courses Include: CS 5340 “Natural Language Processing”, CS 6390 “Information Extraction (from text)”, LING 5300 “Computational Linguistics”, CS 6353 “Deep Learning”

Work Experience

Training Data Labeling Intern at FamilySearch May 2024 – August 2024

- I labeled historical records in high detail to be used for Machine Learning training

Research Assistant at University of Utah School of Computing Summer 2023 – Spring 2024

- I researched natural language processing and published one paper on my findings

Teaching Assistant at University of Utah School of Computing Fall 2021 – Spring 2023

- I taught computer labs, gave feedback on graded assignments, and explained topics to students for a range of undergraduate and graduate computer science courses

SolidWorks Designer at Epiroc November 2019 – April 2020

- I designed and modeled mining drills in SolidWorks CAD format.

Design and Manufacturing Associate at Clean Machine January 2016 – September 2017

- I translated some technical drawings of acquired IP into SolidWorks CAD format and ran Mazak CNC Machines

Awards/Honors

University of Utah College of Humanities Undergraduate Research Award	Spring 2023
Allan A. & Renee Wright Hagander Book Award	Fall 2022