

Taha Husain

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Education

Brandeis University

M.S. | Computational Linguistics

Waltham, MA

2020–2022

University of Kentucky

M.A. | Linguistic Theory and Typology

Lexington, KY

2018–2020

B.S. | Linguistics, Neuroscience

2015–2019

Skills

Programming Languages: Python, R, Java, SQL, C++

Software Tools: PyTorch, Praat, bash scripting, NumPy, TensorFlow, L^AT_EX

- Experienced in NLP, ML & deep learning, audio processing, and data visualization

Work Experience

- June 2021 - present **AI Intern** CALLMINER
Trained PyTorch ML models to classify dialogue acts in conversation transcripts
- Processed training data from SQL database, developing tagset & directing annotators
- Implemented & compared results from different ML approaches
Spearheaded effort towards lightweight audio processing pipeline
- Implemented basic DSP operations with Python and C++ tools
- Focused on task-specific, fast, and memory efficient algorithms
- Fall 2020 **Head Teaching Assistant, LING 120B** BRANDEIS UNIVERSITY
Lead a group of Teaching Assistants in LING 120B: Syntactic Theory, an introductory course on English syntax
- Sept 2019 - May 2020 **Instructor, LIN 211** UNIVERSITY OF KENTUCKY
Lectured and graded two sections of LIN 211: Introduction to the Study of Language, an introductory linguistics course broadly covering linguistic topics from phonetics to pragmatics

Research Projects

- Implosives in U.S. dialects** | Praat, Python, R Presented at NWAV 2018 (New York University)
- Parsed American English audio data to determine phonetic correlates of implosive consonants
- Bootstrapped phonetic categories of voiced stops through social contexts of speech
- CHILDES data analysis** | Python Presented at MACALA 2018 (Penn State University)
- Collected French dialogue data from the CHILDES corpus (parent-child conversation)
- Extracted data on adjective position and other features relevant to first language acquisition
- Attic Greek play discourse** | Java, R
Presented at A Corpus and Usage-based Approach to Ancient Greek 2018 (University of Latvia)
- Scraped and cleaned text data of Attic Greek plays from various online sources
- Described use of discourse particles based on speaker demographics and conversational features