Tess Monks

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EDUCATION

Harvard University, Cambridge, MA — May 2022
MA in Linguistics
Relevant Courses:

- Computer Science: Machine Learning, Computational Linguistics & NLP, Data Science
- Linguistics: Semantics, Syntax, Pragmatics, Phonology, Field Methods, Experimental Design
- Coursera: Stanford Machine Learning
- LinkedIn: NLP with Python for Machine Learning, Essential Math for Machine Learning in Python

Awards & Honors: Harvard Presidential Scholarship

University of Richmond, Richmond, VA — May 2020
BA in Latin, Minors in Linguistics, Economics, and Ancient Greek
Awards & Honors: Phi Beta Kappa, Summa Cum Laude

University of Oxford, Oxford, United Kingdom — October 2018—June 2019
Visiting Student, Lady Margaret Hall

SKILLS & MEMBERSHIP

PROGRAMMING LANGUAGES: Python (PyTorch, NumPy, Scikit-Learn, Pandas), R (tidyverse), SQL

MEMBERSHIP: Harvard's Meaning & Modality Lab

HIGHLIGHTED RESEARCH EXPERIENCE

Harvard University, School for Engineering and Applied Sciences
Computational Linguist for "Approaches to Semantic Parsing" — December 2021

- Built a semantic parsing system to convert English queries to SQL queries
- Implemented a rule-based approach based on semantically augmented syntactic parse trees
- Developed an end-to-end seq2seq system, both with self and cross-attention, to convert text to SQL

JP Morgan Chase & Co.
Software Engineering Virtual Experience Participant — October 2021

- Participated in the open access JP Morgan Chase Virtual Experience Program with Forage
- Interfaced with stock price data feed and analyzed pertinent metrics using Python
- Formulated data visualizations of time-series stock interaction data using financially-oriented datasets

Harvard University, Department of Linguistics
Graduate Researcher for "Modelling Diachronic Semantics" — September 2021—Present

- Created an Evolutionary Game Theory Model and Weighted Finite State Transducer to model semantic change
- Pioneered approaches to diachronic semantics at the intersection of computational linguistics and language change
- Presented at Harvard's Meaning & Modality Lab and at Modelling Constructional Variation and Change

Harvard University, Department of Linguistics
Lead Experimentalist for "Demonstrative Grammaticalization Pathways" — January 2021—Present

- Designed and implemented linguistic surveys for over 200 participants on Prolific Academic
- Cleaned and manipulated original data for regression modeling and significance testing of semantic effects
- Presented at Southern New England Workshop in Semantics (SNEWS), Formal Diachronic Semantics, Linguistics Society of America

ADDITIONAL PROFESSIONAL EXPERIENCE

Office of International Education, University of Richmond, VA — May 2020—August 2020
Special Programs Intern

- Collected and analyzed data on the college's diversity goals in the first biannual report, presenting results to stakeholders
- Led the initiative for a sustainable approach to university-based travel based on insights collected from peer institutions
- Collaborated with embassies, faculty, and board members to implement data-driven changes to educational travel