LAURA HAMBRIDGE

Data Analyst | Computational Linguist

@ laura.hambridge@machinacognita.com in linkedin.com/in/laura-hambridge Buffalo, NY

EDUCATION

University at Buffalo Feb 2022 Buffalo, NY

M.S. Computational Linguistics

Capstone project: "Comparing Per-Language Performance in a Many-to-Many Machine Translation System"
CGPA: 3.7/4.0

EXPERIENCE

Dec 2022 - present **Machina Cognita Technologies**

Data Scientist

- Developed world state model derived from natural language for use in battle environments.
- Developing toolkit for training vessel trajectory-prediction models.

Aug 2021 - Apr 2022 **Causality Across Languages, SUNY**

Research Assistant Jürgen Bohnemeyer, Professor, Linguistics

- Sought to find if the way people assign responsibility for events and outcomes is dependent on their culture. CAL blog
- In R, used linear regression and ANOVA for confirmatory analysis and conditional inference trees and random forests for exploratory analysis on ordinal and categorical data from sociolinguistic experiments.

Sept 2020 - Jan 2022 **The Baldy Center for Law & Social Policy, SUNY**

Research Assistant Amy Semet, Associate Professor, Law

- Sought to find if a legal case opinion's author could be predicted based on word choice alone.
- Extracted information from approx. 7k legal documents using regular expressions and normalized to optimize for analysis.
- Built both a simple neural network and a statistical model driven by tf-idf to predict the author (out of about 27 authors).

May 2021 - Aug 2021 **Natural Language Understanding Laboratory, Jacobs School of Medicine and Biomedical Sciences, SUNY**

Intern Peter Elkin, Professor, Biomedical Informatics

- Developed a web-based user interface for biomedical researchers to extract a csv of medical terms, codes for such terms, and relationships between such terms from any input text. NLU Lab

Mar 2020 - Nov 2020 **Tesserae, University of Notre Dame & SUNY**

Volunteer Backend Engineer Neil Coffee, Professor, Classics

- Implemented sound-matching feature and accompanying tf-idf based algorithm in Python for version 5 of Tesserae, a project developed to aid scholars in comparing classical Greek and Latin texts.

INTERESTS

trustworthy AI | natural language understanding | language modeling | machine translation | historical linguistics | linguistic typology | under-served languages | automated speech recognition | cognitive science | data analysis

COURSEWORK

- Computational Linguistics
- Machine Learning
- Information Retrieval
- Quantitative Methods
- NLP & Text Mining
- Syntax
- Semantics
- Cognitive Science

LANGUAGES

English ●●●●●
Spanish ●●●●○
Ukrainian ●●●○○
German ●●●○○