

Emma Bateman

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github.com/emmabateman

Relevant Skills:

- Python, R, SQL, JavaScript
- Linux command line, Bash scripts
- NLTK, CoreNLP, NumPy, Scikit-learn, Mallet
- PyTorch, Tensorflow
- Document classification, information extraction, relation extraction, document summarization
- Word embedding, tokenization, part-of-speech tagging, parsing
- German (conversational), Spanish (intermediate)

Education:

Master of Science in Computational Linguistics

Expected graduation date: June 2020

University of Washington, Seattle, WA

GPA: 3.70

Coursework:

- Collaborated on a team to build a multi-document summarization system
- Implemented parsing algorithms for context free and probabilistic context free grammars
- Built Hidden Markov Models for bigram and trigram part-of-speech tagging

Bachelor of Science in Computer Science

May 2018

Minor: Creative Writing

University of Idaho, Moscow, ID

GPA: 3.77

Work Experience:

Research Assistant

March 2020 – present

University of Washington, Seattle, WA

- Improving a user interface for linguists to help design machine-readable grammars
- Working with potentially noisy data mined from linguistics literature
- Modifying existing JavaScript and Python code to fix issues and expand functionality

Intern – Software Engineering

June – September 2019

Collins Aerospace, Cedar Rapids, IA

- Worked on an Agile development team
- Designed components of a navigation software system

Projects and Research:

Application for Speech Visualization

September 2017 – May 2018

University of Idaho, Moscow, ID

- Worked with the CMU Sphinx toolkit to analyze speech data
- Trained a language model on a corpus of scripted and spontaneous speech
- Performed phoneme-level speech recognition
- Built a user interface in Java

“Belief horizons and interaction models of opinion dynamics”

February 2017 – May 2018

University of Idaho, Moscow, ID

- Ran simulations with C++ and analyzed outputs using R
- Produced plots and graphs to visualize data
- Studied the evolution of opinions in groups from an interdisciplinary perspective