

Christopher Haberland

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EDUCATION **Master of Science, Computational Linguistics** Mar 2019
GPA: **3.97**; University of Washington, Seattle, WA

Master of Public Policy May 2015
Thesis: *Compliance with the EPA's Clean Power Plan*
GPA: **3.67**; University of Virginia, Charlottesville, VA

Bachelor of Arts, Middle Eastern Languages and Literatures May 2013
Second Major: Spanish: Literature and Culture; Minor in Economics
GPA: **3.77**; University of Virginia, Charlottesville, VA

EXPERIENCE **NLP Engineer, Mosaix.ai** Sept 2018-present

- Design and maintain ontological system for multilingual voice assistant and semantic search application
- Introduce NLP components to ML pipeline and conduct experiments to improve domain and intent classification and entity parsing for several languages, including English, Arabic, Hindi, and Vietnamese
- Design and carry out data collection projects and labeling tools to support NLU model training while managing group of data annotators and language experts to ensure data quality

Graduate Researcher, UW Department of Linguistics Sept 2018-2019

- Develop OCR processes for extracting multilingual data from printed materials to support language modeling of low-resource languages using Tesseract, fastText, and other open source software for DARPA-funded project LORELEI

Graduate Researcher, UW EarthLab Mar 2018-Jun 2019

- Developed integrated SMS chatbot app to solicit and store survey information from visitors to National Forests using Rasa, MongoDB, and Twilio
- Developed custom ontological tagging schema and annotation program to create gold-label training data
- Trained and evaluated ML models for classification of social media text data that evince economic activity dependent upon coral reefs

Data Science Fellow, UW eScience Institute Jun 2018-Aug 2018

- Deployed SSD and R-CNN neural algorithms in TensorFlow and create training data to detect damaged buildings in post-disaster satellite RGB imagery

SKILLS

Programming Languages	Python, Scala English (native), Spanish (adv.), Arabic (adv.), Persian (inter.), Italian (inter.), Basque (beg.)
NLP & ML	fastText, Duckling, NLTK, SKLearn, SpaCy
Speech	DeepSpeech, Praat
Version Control	Git, Mercurial, Docker
Database and Ontological	MongoDB, SPARQL

COURSES

Advanced Statistical Methods in NLP	Sociolinguistics
Deep Processing Techniques for NLP	Statistic Machine Learning
Syntax for Computational Linguistics	Phonology

HONORS **Foreign Language Area Scholarship** Oct 2017 - May 2018
\$33,000 award to study computational linguistics and the Arabic language

Critical Language Scholarship Jun - Aug 2013
Recipient of U.S. Department of State award to study Arabic in Rabat, Morocco

Honor Societies: Phi Beta Kappa, NSCS, Golden Key