EMILY TAGTOW
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EDUCATION

CARNEGIE MELLON UNIVERSITY 2017

School of Computer Science

Masters of Science in Language Technologies

Selected Coursework: Algorithms for NLP, Machine Translation, Machine Learning, Deep Learning, Language & Statistics, Conlanging

UNIVERSITY OF TEXAS AT AUSTIN 2015

Honors College of Liberal Arts

Bachelor of Arts in Linguistics, GPA: 3.9

Thesis: A Stratified Analysis of Lexical Substitution Models

SKILLS

- Skilled in Python, Scala, C++, and R
- Extensive knowledge of DyNet, Cdec, Scikit Learn, and NLTK
- Strong background in linguistic analysis, machine learning, and natural language processing
- Proficiency in French, intermediate knowledge of Japanese

WORK EXPERIENCE

PEOPLE PATTERN: DATA SCIENCE INTERN 2014 - 2015

- Built models for distributional word similarity to be used in client-facing presentations
- Generated translations to be used in multilingual classification
- Maintained crowdsourcing pipelines for obtaining training data
- Evaluated demographics classifiers and contributed to feature engineering

UT SOUND LAB: RESEARCH ASSISTANT 2012 - 2014

- Designed and carried out speech intelligibility experiments with test subjects
- Edited and prepared sound files in Praat
- Ran statistical analysis on the resulting data

RESEARCH

DARPA LORELEI: MACHINE TRANSLATION RESEARCHER 2016 - 2017

- Led the development of a machine translation pipeline under an aggressive timeline
- Leveraged multilingual corpora to bolster low-resource translation
- Incorporated linguistic knowledge to improve translation scores

ACL 2016 FIRST CONFERENCE ON MACHINE TRANSLATION 2016

- Developed a neural network architecture for disambiguating Turkish morphological parses
- Extended this idea to include models that use contextual information when disambiguating
- Achieved near state of the art accuracy in several morphologically complex languages

AWARDS & PUBLICATIONS

2016 *COLING Publication:* The Role of Context in Neural Morphological Disambiguation

2015 Dean's Distinguished Graduates, honorable mention

2015 Rapoport-King Thesis Scholarship

2013 *ASA Publication:* Familiarity with a Foreign Accent Aids Perceptual Accent Adaptation

2011 - 2015 Dean's Honors: Magna Cum Laude