

Education

- 2013—2014 **Professional Masters of Science in Computational Linguistics**,
(expected) *University of Washington*, Seattle, WA.
- Focused on Natural Language Processing and language modeling
 - Specific topics include: Machine Translation, Information Retrieval, and Question Answering
 - Machine learning algorithms including kNN, Decision Trees, Naïve Bayes, MaxEnt, and SVM
- 2009—2013 **Bachelor of Arts in Applied Linguistics**, *Portland State University*, Portland, OR.
- Minor in Computer Science
 - Honors College, undergraduate thesis: “The Linguistics of Sentiment Analysis”

Experience

- Current **Research Assistant**, *University of Washington - CSE*, Seattle, WA.
(2014)
- Designed and implemented training data pipeline for multi-linguistic relation extraction system, MultiR
 - Managed large corpora:
 - Gigaword English, Spanish, and Chinese corpora: over 9 million documents
 - Freebase: currently over 2 billion facts
 - Utilized NLP tools for English, Spanish, and Chinese
 - Stanford’s CoreNLP package for tokenization, Named Entity Recognition, parsing, etc.
- Winter and Summer **Intern**, *BCL Technologies*, San Jose, CA.
2012
- Conducted research on Semantic Role Labeling for Modern Standard Arabic
 - Authored demonstration paper published in *Proceedings of COLING 2012* (see Publications)
 - Created annotated linguistic data
 - Wrote grant proposal, awarded \$80,000 SBIR for Multi-Lingual Semantic Author Identification
 - Other research areas: text summarization and spoken language identification, automated financial data extraction
- 2011—2013 **Library Technology Assistant**, *Portland State University*, Portland, OR.
- Lead five-person student IT team March, 2013 — June, 2013
 - Coordinated student workers to ensure lab support coverage
 - Provided support for staff and student technologies at the University’s Millar Library
 - 90 Windows PCs, 36 Windows laptops, 4 Macs, 3 Ricoh printers, 3 scanners
- 2010—2011 **Apprentice**, *Braindump*, *Portland State University*, Portland, OR.
- Performed IT services for the University’s Computer Science and Engineering department
 - 137 Windows PCs, 48 Linux PCs, 21 Unix PCs, 8 printers, 3 scanners
 - Attended weekly lectures on various topics pertaining to systems administration and general computer systems knowledge

Technical skills & selected projects

- Python** Implemented various Machine Learning algorithms, HMM-based Part-of-Speech tagger, Word Sense Disambiguation system, and CKY parser
- NLTK** Created several Context Free Grammars, utilizing features and semantic representations; utilized tokenization, parsing, and corpus tools
- Current** Multilingual relation extraction system (Java), promptbot: an IRC bot used by 20 users across 2 networks that dispenses writing prompts (Python, ongoing)
- Recent** Aquaponics web interface design (Human Computer Interaction), product review sentiment analysis research (Python)
- Additional** C++, Java, Mallet, Bash, Git, Maven

Publications

- 2012 Hart, Laurel, Hassan Alam and Aman Kumar, “**Revisiting Arabic Semantic Role Labeling using SVM Kernel Methods**” *Proceedings of COLING 2012*. December, 2012: 207—14.
<http://aclweb.org/anthology//C/C12/C12-3026.pdf>