Laurel Hart **Computational Linguist**

Education

2013—2014 Professional Master of Science in Computational Linguistics,

University of Washington, Seattle, WA.

- o Completed intensive, graduate-level program in 1 year
- o Focused on Natural Language Processing (NLP), Machine Learning (ML), and language modeling
 - Specific topics included Machine Translation, Information Retrieval, and Question Answering

2009—2013 Bachelor of Arts in Applied Linguistics, Portland State University, Portland, OR.

- o Minor in Computer Science
- o Honors College, undergraduate thesis: "The Linguistics of Sentiment Analysis"

Experience

2014 Research Assistant, University of Washington - CSE, Seattle, WA.

- o Designed and implemented Java training data pipeline for multi-linguistic relation extraction system, MultiR
- Worked with large corpora:
 - Gigaword English, Spanish, and Chinese corpora: over 9 million documents
 - Freebase: currently over 2 billion facts
- o Utilized Stanford's CoreNLP package for tokenization, Named Entity Recognition, parsing, etc.

Winter and **NLP Intern**, BCL Technologies, San Jose, CA.

- Summer O Conducted research on Semantic Role Labeling for Modern Standard Arabic
 - Authored demonstration paper published in *Proceedings of COLING 2012* (see Publications) 2012
 - Created annotated linguistic data
 - O Wrote grant proposals, company awarded \$80,000 SBIR toward Multilingual Author Identification
 - o Other research areas: text summarization, spoken language identification, automated financial data

2011—2013 Library Technology Assistant, Portland State University, Portland, OR.

- o Team Lead of five-person student IT team March, 2013 June, 2013
 - Coordinated student workers to ensure lab support coverage
 - Created training materials for new hires and oversaw training
- o 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

Technical skills & selected projects

ML kNN, Decision Trees, Naïve Bayes, MaxEnt, and SVM (Python)

NLP HMM-based Part-of-Speech tagger, Word Sense Disambiguation system, CKY parser, tokenization, Context Free Grammars incorporating features and semantic representations

Current Promptbot: an IRC bot for writers; used upwards of 40 users across 2 networks (Python, ongoing)

Recent Training pipeline for a semi-supervised multilingual relation extraction system (Java); product review sentiment analysis research (Python)

Languages Python, Java, C++

Tools NLTK, Mallet, Stanford CoreNLP, Maven, Git, Bash, LATEX

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