# Laurel Hart Computational Linguist

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# 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.

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

# Experience

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

- 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
- Utilized Stanford's CoreNLP package for tokenization, Named Entity Recognition, parsing, etc.

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

2012

- Summer 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 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.

- 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
- 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