

# Laurel Hart

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## 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”

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## Experience

- Winter and Summer 2012 **Intern**, *BCL Technologies*, San Jose, CA.
- 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 covering range of topics
    - \$80,000 SBIR received for Multi-Lingual Semantic Author Identification
    - Other research areas: text summarization and spoken language identification
  - Analyzed data for feature selection purposes toward 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

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## Technical skills & selected projects

- Python** Implemented various Machine Learning algorithms, HMM-based POS tagger, Word Sense Disambiguation system, and CKY parser, IRC bot used by 20 users across 2 networks
- NLTK** Created several Context Free Grammars, utilizing features and semantic representations; utilized tokenization, parsing, and corpus tools
- Current** Aquaponics web interface (Human-Computer Interaction study), Question-Answering system (Java), Sentiment Analysis system (Python)
- Additional** C++, Java, Mallet, Bash, Git

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## 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>