Skatje Myers

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Education

Ph.D. student, Computer Science and Cognitive Science (2013 - present)
University of Colorado at Boulder

M.S., Computer Science (2016)
University of Colorado at Boulder

B.A., Computer Science (2010)
University of Minnesota - Morris

Research

Research Assistant, CU Boulder

ClearEarth (Spring 2015 - present)
Applying NLP/ML techniques that have been successfully used in the biomedical field to establish new semantic resources such as ontologies for the geosciences.

Broad Operating Language Translation (BOLT) (Fall 2014)

Temporal Relation Discovery for Clinical Text (THYME) (Spring 2014; Spring 2016 - present)
Developing tools for automatic discovery of events and their relations on a timeline from clinical text.

Intern

3M Health Information Systems (Summer 2016)
Predicting length of stay based on clinical text.

HRL Laboratories (Summer 2014)
Project working on neuro-semantic mapping.

Publications / Posters

Natural Language Processing and Machine Learning (NLP/ML): Applying Advances in Biomedicine to the Earth Sciences
Ruth Duerr, Skatje Myers, Martha Palmer, Chris J Jenkins, Anne Thessen and James Martin.
Poster at American Geophysical Union, 2015.

Teaching

Natural Language Processing, grader. (Fall 2016, Fall 2014)

Introduction to Programming, teaching assistant. (Fall 2013)

Other Employment

MIOsoft Corporation (2010 - 2013)
Java / Smalltalk developer

Other Relevant Experience

Courses

CSCI 5832: Natural Language Processing
NLP as it's concerned with the theoretical and practical issues; covers the problems of understanding complex language phenomena and building practical programs.

LING 7800 / CSCI 7000: Computational Lexical Semantics
Theoretical models of lexical semantics and events; lexical resources such as PropBank, VerbNet and the Generative Lexicon; approaches to developing automatic classifiers that are intended to make use of these resources and to offer richer representations of sentences in context.

CSCI 5622: Machine Learning
Supervised learning, reinforcement learning, and unsupervised learning. Practical and theoretical understanding of the most widely used algorithms.

LING 5430: Semantics and Pragmatics
Fundamental concepts of semantics and pragmatics, including theories of communication and meaning, representation, conversational implications, speech acts, and discourse structure.

Independent study (3 cr) in conjunction with UIUC: CCG Parsing
In-depth exploration of techniques for implementing combinatory categorial grammar parsers, with comparisons to other parsing approaches and a survey of CCG implementations.

LING 6520: Comparative Topics in Linguistics (from a Computational Perspective)
Comparison of computational grammars and computational lexicons, including tree-adjoining grammars, Lexical-Functional grammars, Head-driven Phrase Structured Grammars, and Combinatory Categorial Grammars.

CSCI 7000: Advanced Machine Learning for NLP
Current research in NLP, comparison of different approaches for solving problems in NLP, and how to evaluate the results.

CSCI 5922: Neural Networks and Deep Learning
History of neural networks and state-of-the-art approaches to deep learning. Designing neural network architectures and training procedures using TensorFlow.

Miscellaneous

NAACL scholarship for the Johns Hopkins University's Summer School on Human-Language Technology (2013)

CRA-W **Distributed Research Experiences for Undergraduates** program (2009)
Mentored by Graciela Gonzalez at Arizona State University. The project explored using deep syntactic features to improve the biomedical named entity system BANNER.

Service

CU Women in Computing
Vice Chair, 2014-2015
Event Coordinator, 2013-2014

AAUW's **Expanding Your Horizons** (2014, 2015)
Volunteer for conference for middle-school girls involving hands-on STEM activities, to educate and motivate young girls to become innovative and creative thinkers.

Various STEM outreach panels
CONvergence (2012 - 2015)

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`http://ska.tjemye.rs/cv.pdf`