JASON MIELENS

Austin, TX, United States

jmielens@utexas.edu

EDUCATION

University of Texas at Austin   *2011 - present*
Ph.D. Linguistics
· Dissertation (in progress): *Evaluating Parsers for Low-Resource Scenarios*
· Research on the properties of naturally small corpora: quantifying the ways in which they differ from scaled-down corpora, methods for better modeling small corpora, and how best to evaluate tools developed for them.

University of Texas at Austin   *2011 - 2014*
M.A. Linguistics
· Thesis: *Unknown Word Sequences in HPSG*
· Research focused on techniques for parsing sentences containing a substantial number of unknown words.
· 3.93/4.0 GPA

University of Wisconsin – Madison   *2006 - 2011*
B.S. Computer Sciences & Linguistics
· Specialization in Natural Language Processing
· Graduation with Distinction
· 3.9/4.0 GPA

EXPERIENCE

University of Texas at Austin   Aug. 2012 - Present
Graduate Research Assistant - Computational Linguistics   *Austin, TX*
· Conducted research concerning the best ways to make use of small amounts of expert linguistic knowledge to improve computational techniques.
· Helped develop new syntactic parsing methods aimed specifically at low-resource languages and other limited-data applications.

University of Texas at Austin   Aug. 2011 - May 2012 / Aug. 2013 - Jan. 2014
Graduate Teaching Assistant   *Austin, TX*
· Graded assignments and exams.
· Prepared and delivered occasional substitute lectures.
· Classes: Introduction to Linguistics, Phonology I, Introduction to Cognitive Science.

University of Wisconsin - Madison   Jan. 2010 - June 2012
Laryngeal Physiology Lab - Research Assistant   *Madison, WI*
· Conducted research focused on swallowing disorders, primarily involving novel methods for the detection and classification of dysphagias.
· Provided programming and data analysis support for multiple lab groups.

PUBLICATIONS

Computational Linguistics

- · Liang Sun, Jason Mielens, and Jason Baldridge. *Parsing Low-Resource Languages Using Gibbs Sampling for PCFGs with Latent Annotations.* Proceedings of EMNLP. 2014 (to appear)
- · Dan Garrette, Jason Mielens and Jason Baldridge. *Real-World Semi-Supervised Learning of POS-Taggers for Low-Resource Languages.* Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics. 2013

Laryngeal Physiology

- · Hammer MJ, Jones CA, Mielens JD, Kim CH, McCulloch TM. *Evaluating the Tongue-Hold Maneuver Using High-Resolution Manometry and Electromyography.* Dysphagia. 2014
- · Witt DR, Chen H, Mielens JD, McAvoy KE, Zhang F, Hoffman MR, Jiang JJ. *Detection of Chronic Laryngitis due to Laryngopharyngeal Reflux Using Color and Texture Analysis of Laryngoscopic Images.* Journal of Voice. 2014
- · Hoffman MR, Mielens JD, Omari T, Rommel N, Jiang JJ. *Artificial neural network classification of pharyngeal high-resolution manometry with impedance data.* Laryngoscope. 2012
- · Mielens JD, Hoffman MR, Ciucci MR, Mcculloch TM, Jiang JJ. *Application of classification models to pharyngeal high-resolution manometry.* J Speech Lang Hear Res. 2012
- · Hoffman MR, Mielens JD, Ciucci MR, Jones CA, Jiang JJ, Mcculloch TM. *High-Resolution Manometry of Pharyngeal Swallow Pressure Events Associated with Effortful Swallow and the Mendelsohn Maneuver.* Dysphagia. 2012
- · Mielens JD, Hoffman MR, Ciucci MR, Jiang JJ, Mcculloch TM. *Automated analysis of pharyngeal pressure data obtained with high-resolution manometry.* Dysphagia. 2011
- · Hoffman MR, Ciucci MR, Mielens JD, Jiang JJ, Mcculloch TM. *Pharyngeal swallow adaptations to bolus volume measured with high-resolution manometry. Laryngoscope.* 2010

CONFERENCE PRESENTATIONS

- · "Classification of Pharyngeal High-Resolution Manometry With Impedance Data Using Artificial Neural Networks", 20th Annual Dysphagia Research Society, Toronto CA, 2012
- · "Application of Pattern Recognition Techniques to Pharyngeal High-Resolution Manometry", 19th Annual Dysphagia Research Society, San Antonio TX, 2011

AWARDS, GRANTS, AND HONORS

Student Poster Award - Dysphagia Research Society 2012
Phi Beta Kappa 2010
Kemper K. Knapp Scholarship 2006