

JASON MIELENS

jmielens@utexas.edu
Austin, TX, United States

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 to better model 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 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

- Jason Mielens, Liang Sun, and Jason Baldridge. *Parse Imputation for Dependency Annotations*. Proceedings of the Association for Computational Linguistics. 2015 (to appear)
- Liang Sun, Jason Mielens, and Jason Baldridge. *Parsing Low-Resource Languages Using Gibbs Sampling for PCFGs with Latent Annotations*. Proceedings of EMNLP. 2014
- Dan Garrette, Jason Mielens and Jason Baldridge. *Real-World Semi-Supervised Learning of POS-Taggers for Low-Resource Languages*. Proceedings 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

Carlota Smith Fellowship	2015
Student Poster Award - Dysphagia Research Society	2012
Phi Beta Kappa	2010
Kemper K. Knapp Scholarship	2006