

Department of Speech & Hearing Sciences  
Arizona State University  
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## Employment

- Spring 2014- Assistant Research Professor  
Department of Speech & Hearing Sciences  
Arizona State University
- Fall 2014 Adjunct Lecturer  
Department of Linguistics  
University of Arizona
- 2012-2014 Postdoctoral Researcher  
Department of Physiology  
University of Arizona
- 2011-2012 Postdoctoral Researcher/Instructor  
Department of Linguistics  
Universität Potsdam

## Education

- 2011 Doctor of Philosophy (Ph.D.) in Linguistics, University of Arizona  
Major: Phonology  
Minor: Cognitive Science
- 2008 Master of Arts (M.A.), in Linguistics, University of Arizona.
- 2001 Bachelor of Arts (B.A.) in English, College of St. Benedict
- 1999 Study Abroad Program, Southwest China Normal University

## Research Interests

Psycholinguistics: lexical access, segmentation, and phonological representations; Neurolinguistics and Cognitive Science: neurophysiology, motor control of speech, motor speech disorders; Phonology: vowel harmony, prosody and syllabification; Articulatory and Acoustic phonetics; Mongolian Phonology and Psycholinguistics; Language Preservation and Revitalization.

## Publications

- In revision The role of stress and word size in Spanish speech segmentation. With Julie Liss, Megan McAuliffe, Visar Berisha, Beatriz Barragan & Ashley Adams. *JASA-Express Letters*.
- In revision Longitudinal changes in linguistic complexity in professional athletes at-risk for chronic traumatic encephalopathy. With Visar Berisha, Shuai Wang & Julie Liss. *Brain and Language*.
- In revision Expiration-related changes in laryngeal airway aperture modulate tongue muscle motor unit activation. With Fiona Bailey & Peter Watson. *Frontiers in Physiology*.
- In prep The effects of lexical frequency and phonological neighborhood density on vowel space dispersion in dysarthric speakers. With Kaitlin Lansford & Julie Liss. *Ms*.
- 2016 A convex model for linguistic influence in group conversations. With Kan Kawabata, Visar Berisha & Anna Scaglione. *Proceedings: Interspeech*, San Francisco, Sep. 8-12, 498.
- 2015 Tracking discourse complexity preceding Alzheimer's Disease diagnosis: A case study comparing the press conferences of Presidents Ronald Reagan and George Herbert Walker Bush. With Visar Berisha, Shuai Wang, & Julie Liss. *Journal of Alzheimer's Disease* (45): 959-963.
- 2014 Khalkha Mongolian speakers' vowel bias: L1 influences on the acquisition of nonadjacent vocalic dependencies. *Language, Cognition and Neuroscience* (30): 1033-1047.
- 2012 Non-adjacent phonological dependency effects on Khalkha Mongolian speech perception. *Proceedings: West Coast Conference on Formal Linguistics* (29): 143-151.
- 2011 How specialized are specialized corpora? Behavioral evaluation of corpus representativeness for Maltese. With Jerid Francom & Adam Ussishkin. *Proceedings: Language Resource Evaluation Conference*, Malta, May 2010, 421-427.

## Talks

### Invited

- 2015 *Lexical frequency and phonological neighborhood density effects on dysarthric vowel space dispersion.* Department of Speech and Hearing Sciences, Arizona State University.
- 2015 *Tracking discourse complexity: A case study of Presidents Ronald Reagan and George Herbert Walker Bush.* With Visar Berisha, Shuai Wang & Julie Liss. Department of Speech and Hearing Sciences, Arizona State University.
- 2014 *The temporal basis of vowel articulation: An electromyographic investigation of the 'articulatory period.'* Department of Linguistics, University of Arizona.
- 2013 *Motor unit activity of the genioglossus during vowel production.* Department of Speech, Language & Hearing Sciences, University of Arizona.
- 2011 *The role of language-specific phonology: Tracking linguistic variables in Khalkha Mongolian.* Department of Linguistics, Universität Potsdam
- 2010 *Speech perception in Khalkha Mongolian: A psycholinguistic survey.* American Center for Mongolian Studies, Ulaanbaatar, Mongolia.
- 2009 *Harmonic class priming: Evidence from a pilot on Khalkha Mongolian.* Institute of Linguistics, University of Malta.
- 2009 *The root in Semitic languages.* With Adam Ussishkin. Institute of Linguistics, University of Malta.
- 2008 *A hybrid model of the Semitic lexicon: Psycholinguistic evidence from Hebrew.* With Adam Ussishkin. Tel Aviv University.
- 2008 *Semitic morphology: Root-based and word-based.* With Adam Ussishkin. Workshop on Semitic Morphology: Root-based or Word-based, Hebrew University.

### Peer-reviewed conferences

- 2016 *The role of stress and syllable number as a cue for Spanish speech segmentation.* With M. McAuliffe, J. Liss, B. Barragan, A. Adams, & V. Berisha. International Clinical Phonetics and Linguistics Association, Halifax, Nova Scotia, Canada.
- 2014 *Temporal characteristics of vowel articulation.* Poster Presentation. With E.F. Bailey. Acoustical Society of America, Providence, RI.
- 2014 *Single motor unit activity in the genioglossus during phonated and whispered vowel articulations.* With E.F. Bailey & P.J. Watson. Motor Speech Conference, Sarasota, FL.

- 2013 *Single motor unit activity in the genioglossus during speech production.* With S. Takano, I.J. Kidder, P.J. Watson, & E. F. Bailey. Linguistic Society of America Annual Meeting, Boston, MA.
- 2012 *Single motor unit activity in the genioglossus muscle during vowel articulation.* Poster Presentation. With S. Takano, I.J. Kidder, P. J. Watson, & E. F. Bailey. Acoustical Society of America, Kansas City, MO.
- 2012 *Genioglossus motor unit activities in quasi-speech tasks.* Poster Presentation. With S. Takano, P.J. Watson, & E.F. Bailey. Society for Neuroscience, New Orleans, LA.
- 2012 *Native language biases of Khalkha Mongolian speakers in the acquisition of non-adjacent phonological dependencies.* Old World Conference on Phonology, Berlin, Germany.
- 2011 *Non-adjacent phonological dependency effects: Three experiments on Khalkha Mongolian speech perception.* West Coast Conference on Formal Linguistics 29, Tucson, AZ.
- 2011 *Non-adjacent phonological pattern effects on Khalkha Mongolian speech perception.* Linguistic Society of America Annual Meeting, Pittsburgh, PA.
- 2010 *Language revitalization and preservation: A look at Mongolia.* American Center for Mongolian Studies Annual Conference, Ulaanbaatar, Mongolia.
- 2010 *Regularity and vowel harmony: Statistical learning and rule abstraction.* Linguistic Society of America Annual Meeting, Baltimore, MD.
- 2009 *Results from a study on Maltese verb familiarity.* With Adam Ussishkin. International Conference on Maltese Linguistics, Bremen, Germany.
- 2008 *Faithfulness and positional licensing: The MATCH constraint in Khalkha Mongolian [ATR] vowel harmony.* Poster Presentation. Manchester Annual Phonology Meeting, Manchester, UK.
- 2008 *Morphological family size in Hebrew auditory lexical decision.* With Jordan Brewer and Adam Ussishkin. Linguistic Society of America Annual Meeting, Chicago, IL.
- 2008 *Experimental evidence for the role of syllable structure in lexical access.* Poster Presentation. Linguistic Society of America Annual Meeting, Chicago, IL.

## Teaching

### Arizona State University

Spring 2015 Neuro-motor Speech Disorders SHS 576 *graduate*

### University of Arizona

Fall 2014 Phonetics LING 314 *undergraduate*  
Fall 2014 Phonology LING 315 *undergraduate*  
Spring 2011 Mind, Self & Language INDV 101 *undergraduate (TA)*  
Spring 2009, Language Acquisition LING 341 *undergraduate*  
2008, 2007  
Spring 2008 Phonology LING 315 *undergraduate (TA)*  
Fall 2007 Phonetics LING 314 *undergraduate (TA)*

### Universität Potsdam

Fall 2011 Seminar: Nonadjacent Dependencies *graduate*  
Fall 2011 Phonetics *undergraduate*

## Grants & fellowships

In prep National Institute of Health: R21: "The L1-L2 Interface in Dysarthric Speech" \$200,000 PI  
In prep National Institute of Health: R01: "Cross-linguistic Research in Dysarthric Speech" 500,000 Co-PI  
2015 National Science Foundation: STTR Phase 1: "An augmentative tool to connect speech language pathologists with patients" \$224,737 Co-PI  
2010-2011 American Center for Mongolian Studies: Doctoral Fellowship \$27,000 Fellow  
2008 Travel Grant: Cognitive Science Program \$800

## Community Outreach

2015- Mongolian Cultural Expert/Consultant  
Department of Child Safety  
Pima County, Arizona

## Service

### Arizona State University

- 2015- Master's Thesis Committee Member  
Department of Speech and Hearing Sciences
- 2015- NSF and NIH Grant Management, Motor Speech Disorders Lab  
Department of Speech and Hearing Sciences

### University of Arizona

- 2014 Orals Committee Member  
Department of Linguistics
- 2008-2009 Organizer: Sound Minds  
Department of Linguistics
- 2006 Co-Organizer: Linguistics Department Colloquium  
Department of Linguistics

## Peer reviewing

Journals: *Journal of Speech, Language and Hearing Science, Journal of Phonetics, JASA*

## Languages

English and Khalkha Mongolian (fluent), knowledge of German, Modern Hebrew, Maltese, American Sign Language, Mandarin and Spanish

## References

Julie Liss, Professor/ Associate Dean  
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