

Jeffrey J. Berry *(August 2011)*

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Education

Ph.D. Linguistics, University of Arizona, 2011 (Expected)

M.S. Human Language Technology, University of Arizona, 2008

B.A. Linguistics, University of Utah, 2006, *Magna Cum Laude*

B.A. Middle East Studies – Hebrew, University of Utah, 2006, *Magna Cum Laude*

Peer-Reviewed Publications

Berry, J., Ji, S., Fasel, I., & Archangeli, D. (2011). Articulatory reduction in Mandarin Chinese words. *Interspeech 2011*.

Berry, J., & Fasel, I. (2011). Dynamics of tongue gestures extracted automatically from ultrasound. *International Conference on Acoustics, Speech and Signal Processing*.

Archangeli, D., Berry, J., Ji, S., Josephs, K., Hunt, N., Fisher, M., & Carnie, A. (to appear). ATR in Scottish Gaelic tense sonorants: A preliminary report. In A. Carnie (ed.) *Formal Approaches to Celtic Linguistics*. Cambridge University Press.

Fasel, I., & Berry, J. (2010). Deep belief networks for real-time extraction of tongue contours from ultrasound during speech. *20th International Conference on Pattern Recognition*.

Conference Presentations

“Articulatory reduction in Mandarin Chinese words” with S. Ji, I. Fasel, & D. Archangeli Interspeech (August 2011), Florence, Italy

“Dynamics of tongue gestures extracted automatically from ultrasound” with I. Fasel International Conference on Acoustics, Speech and Signal Processing (May 2011), Prague, Czech Republic

“Effects of sonority on the distribution of root consonants in Arabic” with K. Schluter Twenty Fifth Annual Symposium on Arabic Linguistics (March 2011), Tucson, AZ

“UltraPraat & UltraWord: Software and data for multimodal speech analysis” with D. Archangeli & I. Fasel Very-Large-Scale Phonetics Research (January 2011), Philadelphia, PA

“Deep belief networks for real-time extraction of tongue contours from ultrasound during speech” with I. Fasel International Conference on Pattern Recognition (August 2010), Istanbul, Turkey

“Timing of tongue tip & dorsum gestures in French and Georgian /l/s” with D. Archangeli, L. Mathieu, J. Schertz, C. Gorrie, & J.-H. Sung Laboratory Phonology 12 (July 2010), Albuquerque, NM

“Automatic classification of tongue gestures in ultrasound images” with D. Archangeli & I. Fasel Laboratory Phonology 12 (July 2010), Albuquerque, NM

“Different dark and light /l/s: English & Georgian” *with D. Archangeli* Ultrafest V (March 2010), New Haven, CT

“The phonetics-speech technology interface: how theory and application can work together” Arizona Linguistics Circle 3 (October 2009), Tucson, AZ

“Tone space reduction in Mandarin Chinese” 157th Meeting of the Acoustical Society of America (May 2009), Portland, OR

“ATR in Scottish Gaelic tense sonorants” *with D. Archangeli, A. Carnie, N. Hunt, S. Ji, K. Josephs* Formal Approaches to Celtic Linguistics (March, 2009), Tucson, AZ

“Speech synthesis for minority languages: A case study on Scottish Gaelic” Arizona Linguistics Circle Conference (November, 2008), Tucson, AZ

“Scottish Gaelic text-to-speech synthesis” University of Arizona Linguistics Student Showcase (March, 2008), Tucson, AZ

“Transitivity in Biblical Hebrew” University of Utah Student Conference in Linguistics (April, 2006), Salt Lake City, UT

Other Publications

Lenowitz, H. & Berry, J. (2007). Review of “A Reference Grammar of Modern Hebrew”, by E.A. Coffin & S. Bolozky. *Shofar* 25(3):205-209.

Berry, J., Fullmer, B., & Rose, B. eds. (2004). *University of Utah Working Papers in Linguistics, Number 3*. Salt Lake City: University of Utah Linguistics Department.

Research Fellowships

Italian Institute of Technology, Department of Robotics, Brain and Cognitive Sciences, 2011

National Science Foundation East Asia and Pacific Summer Institute – China, 2008

Research Experience

Research Assistant 2008–present
APIL Lab, University of Arizona Director: Diana Archangeli
Use of ultrasound to image the vocal tract during speech production. Creation and maintenance of software for analysis of ultrasound images.

Lab Member 2010–present
NeuroComputation Lab, University of Arizona Director: Ian Fasel
Use of machine learning methods in relation to topics in cognitive science and robotics.

Lab Member 2007–present
Douglass Phonetics Lab, University of Arizona Director: Natasha Warner
Conducting of phonetic analysis and psycholinguistic experiments on human perception and production of reduced speech.

Research Staff Member 2007–2009
The Arizona Scottish Gaelic Syntax Project, Director: Andrew Carnie
University of Arizona
Documentation of the phonology and phonetics of Scottish Gaelic.

Research Assistant 2006–2007
SPAM Lab, University of Arizona Director: Mike Hammond
Conducting of psycholinguistic experiments on English speaking participants' judgments of phonotactic well-formedness.

Teaching Experience

Instructor, LING 310 Linguistic Typology, University of Arizona, Spring 2010

Instructor, LING 388 Language and Computers, University of Arizona, Fall 2009

Teaching Assistant, LING 315 Introduction to Phonology, University of Arizona, Fall 2007

Honors and Awards

University of Arizona Graduate College Fellowship, 2008

Best Undergraduate Paper, University of Utah Student Conference in Linguistics, 2006

Eta Beta Rho Hebrew Honors Society Inductee, 2006

University of Utah Linguistics Departmental Scholarship, 2005–2006

University of Utah Linguistics Faculty Award, 2005, 2006

Louis and Ethel Zucker Award in Hebrew, 2005

LoPrest Book Award, 2004–2005

Scholarly Societies

Linguistics Society of America

Acoustical Society of America

Association for Computational Linguistics

International Speech Communication Association

IEEE & IEEE Signal Processing Society

Foreign Languages

Spanish (advanced), Hebrew (advanced), Mandarin Chinese (elementary), German (elementary).
Also familiar with Latin, Greek, Coptic, Ugaritic, Aramaic, Arabic, Hindi, Sanskrit.

Programming Languages & Software

Python, Matlab, R, C/C++, Festival, HTK, Praat, Emu Speech Database System, L^AT_EX, HTML.

Research Interests

Phonetics, Phonology, Speech Synthesis, Speech Recognition, Computational Linguistics, Psycholinguistics, Machine Learning, Cognitive Science, Medical Imaging, Chinese, Hebrew.