

JEFFREY JAMES BERRY, PH.D., CCC-SLP

Current Position: Associate Professor
2007-present
Marquette University
Department of Speech Pathology and Audiology
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I. EDUCATION

- 2003-2005 University of Wisconsin-Madison
NIH Post-Doctoral Fellow, Communicative Disorders
Concentration: Motor Speech Disorders
Advisor: Ray Kent, Ph.D.
- 1998-2003 University of Wisconsin-Madison
Ph.D., Communicative Disorders
Concentration: Speech Motor Control
Dissertation: “*Second Formant Effects of Low-Dimensional Models of Speaking Rate Change in Articulatory Synthesis.*”
Advisor: Gary Weismer, Ph.D.
- 1994-2000 University of Wisconsin-Madison
M.S., Communicative Disorders
Concentration: Medical Speech-Language Pathology
Thesis: “*Mechanisms of Short-Lag Voice Onset Time.*”
Advisor: John Westbury, Ph.D.
- 1988-1994 University of Wisconsin-Madison
B.S., Communicative Disorders

II. ACADEMIC, SCHOLARLY AND PROFESSIONAL EXPERIENCE

- 2009-2010 **Speech-Language Pathologist**, St. Joseph Regional Medical Center
Milwaukee, WI
- 2008-2009 **Speech-Language Pathologist**, Aurora Sinai Medical Center
Milwaukee, WI

- 2007 **Speech-Language Pathologist**, Select Specialty Hospital
Madison, WI
- 2005-2007 **Speech-Language Pathologist**, Mount Carmel Health & Rehab Center
Greenfield, WI
- 2006 **Speech-Language Pathologist**, Middleton Village Health & Rehab Center
Middleton, WI
- 2003-2005 **Post-Doctoral Fellow**, Waisman Center, University of Wisconsin-Madison
Speech Acoustics Lab
Ray Kent, Ph.D., Director
- 2003 **Project Assistant**, Waisman Center, University of Wisconsin-Madison
Speech Physiology Lab
Jordan Green, Ph.D., CCC-SLP, Director
- 1996-2003 **Project Assistant**, Waisman Center, University of Wisconsin-Madison
Speech Acoustics Lab
Gary Weismer, Ph.D., Director
- 1994-1996 **Hourly Assistant**, Waisman Center, University of Wisconsin-Madison
X-Ray Microbeam Lab
John Westbury, Ph.D., Director

III. PUBLICATIONS

A. REFEREED PUBLICATIONS

- Berry, J.**, Kolb, A., Schroeder, J., & Johnson, M.T. (2017). Jaw rotation in dysarthria measured with a single electromagnetic articulography sensor. *American Journal of Speech-Language Pathology*, 26(2S), 596-610. doi: 10.1044/2017_AJSLP-16-0104
- Ji, A., Johnson, M.T. & **Berry, J.** (2016). Parallel reference speaker weighting adaptation for speaker independent acoustic-to-articulatory inversion. *IEEE Transactions on Audio, Speech, and Language Processing*, 24 (10), pp. 1865-1875. doi: 10.1109/TASLP.2016.2588340
- Kolb, A., Johnson, M.T. & **Berry, J.** (2015). Interpolation of tongue fleshpoint kinematics from combined EMA position and orientation data. *Proceedings of the Conference of the International Speech Communication Association (Interspeech)*, pp. 2177-2181. ISCA open access

- Berry, J., Kolb, A., North, C., & Johnson, M. T. (2014).** Acoustic and kinematic characteristics of vowel production through a virtual vocal tract in dysarthria. *Proceedings of the Conference of the International Speech Communication Association (Interspeech)*, pp. 1588-1592. ISCA open access
- Berry, J., Jaeger, J., Wiedenhoef, M., Bernal, B., & Johnson, M. T. (2014).** Consonant context effects on vowel sensorimotor adaptation. *Proceedings of the Conference of the International Speech Communication Association (Interspeech)*, pp. 2006-2010. ISCA open access
- Ji, A., **Berry, J., & Johnson, M. T. (2014).** Palate-referenced Articulatory Features for Acoustic-to-Articulator Inversion. *Proceedings of the Conference of the International Speech Communication Association (Interspeech)*, pp. 721-725. ISCA open access
- Berry, J., North, C., & Johnson, M. T. (2014).** Sensorimotor adaptation of speech using real-time articulatory resynthesis. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, pp. 3196-3200. doi: 10.1109/ICASSP.2014.6854190
- Ji, A., **Berry, J., & Johnson, M.T. (2014).** The electromagnetic articulography Mandarin- accented English (EMA-MAE) corpus of acoustic and 3D articulatory- kinematic data. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, pp. 7719-7723. doi: 10.1109/ICASSP.2014.6855102
- Berry, J., & Weismer, G. (2013).** Speaking rate effects on locus equation slope. *Journal of Phonetics*, 41 (6), 468-478. doi:10.1016/j.wocn.2013.09.002
- Ji, A., **Berry, J., & Johnson, M. T. (2013).** Articulatory space calibration in 3D electromagnetic articulography. *Proceedings of the IEEE China Summit & International Conference on Signal and Information Processing (ChinaSIP)*, pp. 155-159. doi:10.1109/ChinaSIP.2013.6625318
- Berry, J., North, C., Meyers, B., & Johnson, M. T. (2013).** Sensorimotor learning through a virtual vocal tract. *Proceedings of Meetings on Acoustics*, 19, 060099, 1-8. doi:10.1121/1.4800666
- Ji, A., **Berry, J., & Johnson, M. T. (2013).** Vowel production in Mandarin accented English and American English: Kinematic and acoustic data from the Marquette University Mandarin accented English corpus. *Proceedings of Meetings on Acoustics*, 19, 060221, 1-9. doi:10.1121/1.4800290
- Ji, A., Johnson, M. T., & **Berry, J. (2012).** Tracking articulator movements using orientation measurements. *Proceedings of the IEEE International Conference on Audio, Language, and Image Processing*, 292-296. doi:10.1109/ICALIP.2012.6376628
- Berry, J., & Moyle, M. J. (2011).** Covariation among vowel height effects on acoustic measures. *Journal of the Acoustical Society of America*, 130 (5), EL365-EL371. doi:10.1121/1.3651095
- Berry, J. (2011).** Speaking rate effects on normal aspects of articulation: Outcomes and issues. *Perspectives on Speech Science and Orofacial Disorders*, 21 (1), 15-26. doi:10.1044/ssod21.1.15

Berry, J. (2011). Accuracy of the NDI wave speech research system. *Journal of Speech-Language-Hearing Research*, 54 (5), 1295-1301. doi:10.1044/1092-4388(2011/10-0226)

Weismer, G., & **Berry, J.** (2003). Effects of speaking rate on second formant trajectories of selected vocalic nuclei. *Journal of the Acoustical Society of America*, 113, 3362-3378.
doi:10.1121/1.1572142

Publications Under Review

Kim, Y., Thompson, A., **Berry, J.**, & Kuo, C. (submitted). Articulatory kinematics during stop closure in speakers with Parkinson's disease: further data. *Proceedings of the International Conference on Motor Speech*.

Kim, Y., Coalson, G., & **Berry, J.** (submitted). A Kinematic Analysis of Coarticulation Effects on Schwa. *Folia Phoniatica et Logopaedica*.

B. INVITED PUBLICATIONS

Berry, J. (2013). Can we learn with a virtual vocal tract? *Communication Connection (Newsletter of the Wisconsin Speech-Language Pathology & Audiology Association)*, Fall Edition, 1-7.

Berry, J., & Long, S. (2010). Review of the Frenchay Dysarthria Assessment – Second Edition. In R.A. Spies and B.S. Plake (Ed.), *The Eighteenth Mental Measurements Yearbook*. Lincoln, Nebraska: The Buros Institute of Mental Measurements.

C. REFEREED PRESENTATIONS (ABSTRACTS ONLY)

i. International

Kim, Y., **Berry, J.**, & Kuo, C. (2017). *Articulatory Kinematics During Stop Closure in Speakers with Parkinson's Disease: Preliminary Data*. Poster presented at the 7th International Conference on Speech Motor Control, Groningen, the Netherlands.

Berry, J., Bagin, R., Schroeder, J., & Johnson, M.T. (2017). *Sensitivity and Specificity of Auditory Feedback Driven Articulatory Learning in Virtual Speech*. Poster presented at the joint meeting of the Acoustical Society of America and the European Acoustics Association; Acoustics '17, Boston, Massachusetts. [abstract]

Berry, J., Kim, Y., Schroeder, J. (2017). *Articulatory Kinematics During Connected Speech Across Dialects and Dysarthria*. Poster presented at the joint meeting of the Acoustical Society of America and the European Acoustics Association; Acoustics '17, Boston, Massachusetts. [abstract]

- Berry, J., Stoll, A., Jones, D., Alikiaamiri, S., & Johnson, M.T. (2017).** *Second Language Pronunciation Training Using Acoustic-to-Articulatory Inversion*. Poster presented at the joint meeting of the Acoustical Society of America and the European Acoustics Association; Acoustics '17, Boston, Massachusetts. [abstract]
- Berry, J., Runnoe, E., Schroeder, J., Kolb, A., & Johnson, M.T. (2016).** *Effects of Auditory Masking on Tongue Kinematics during Speech and Virtual Speech*. Oral presentation at the 18th International Conference on Motor Speech, Newport Beach, California. [abstract]
- Berry, J., Kolb, A., & Johnson, M.T. (2016).** *Measurement of Jaw Angle Variation in Dysarthria from a Single EMA Sensor*. Poster presented at the 18th International Conference on Motor Speech, Newport Beach, California. [abstract]
- Kolb, A., Johnson, M.T., & **Berry, J.** (2016). *Software Tool for Visualizing and Analyzing NDI Wave EMA Data*. Poster presented at the 18th International Conference on Motor Speech, Newport Beach, California. [abstract]
- Berry, J., North, C., & Johnson, M.T. (2014).** *Dynamic Aspects of Articulating with a Virtual Vocal Tract in Dysarthria*. Poster presented at the 17th International Conference on Motor Speech, Sarasota, Florida. [abstract]
- Berry, J., Jaeger, J., Bernal, B., Hefel, R., & Wesley, J. (2014).** *Consonant Context Effects on Sensorimotor Adaptation of Vowel Production*. Oral presentation at the 17th International Conference on Motor Speech, Sarasota, Florida. [abstract]
- Berry, J., Palahniuk, S., Isaksson, E., & Romenesko, M. (2014).** *Articulatory Kinematics of Alternating and Sequential Motion Rate Diadochokinesis*. Poster presented at the 17th International Conference on Motor Speech, Sarasota, Florida. [abstract]
- Berry, J. (2012).** *Sensorimotor adaptation in severe dysarthria*. Oral presentation at the 16th International Conference on Motor Speech, Santa Rosa, California.
- Berry, J., North, C., & Meyers, B. (2012).** *Sensorimotor adaptation of speech using real-time articulatory synthesis*. Poster presented at the 16th International Conference on Motor Speech, Santa Rosa, California. [abstract]
- Berry, J. (2010).** *Assessment of the NDI Wave system*. Poster presented at the 15th International Conference on Motor Speech, Savannah, Georgia. [abstract]
- Berry, J. (2004).** *Speaking rate effects on the speed and extent of articulator movements*. Oral presentation at the 12th International Conference on Motor Speech, Albuquerque, New Mexico. [abstract]
- Berry, J., & Weismer, G. (2002).** *Speaking rate effects on formants*. Poster presented at the 11th International Conference on Motor Speech, Williamsburg, Virginia. [abstract]

ii. *National*

- O'Brien, B., Sears, S., **Berry, J.**, Alexander, R., & Valla, B. (2017). Use of Yoga & Neuro-Developmental Treatment Strategies in Facilitating Increased Breath Control for Speech. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Los Angeles, California.
- Kim, Y., Coalson, G., & **Berry, J.** (2016). A kinematic analysis of coarticulation effects on schwa. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Philadelphia, Pennsylvania.
- Berry, M., Bello-Almazon, J. Runnoe, E., Whitaker, M., Barnes, S, **Berry, J.**, & Long, S. (2016). Vowel acoustics in English-accented Spanish. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Philadelphia, Pennsylvania.
- Berry, J.**, Kolb, A., Heiderscheidt, N., & Johnson, M.T. (2015). Characterizing articulatory kinematics of Mandarin accented English using fleshpoint position & orientation. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Denver, Colorado.
- Bernal, B., Heiderscheidt, N., & **Berry, J.** (2015). Sensorimotor adaptation using a commercial auditory feedback processor. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Denver, Colorado.
- Berry, J.**, Werking, E., Runnoe, E., Kolb, A., & Johnson, M.T. (2015). Effects of acoustic scaling on auditory feedback-driven learning with a virtual vocal tract in dysarthria. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Denver, Colorado.
- Kolb, A., Johnson, M.T., & **Berry, J.** (2015). Software tools and analysis methods for use with EMA data. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Denver, Colorado.
- Bernal, B., & **Berry, J.** (2015). *Sensorimotor adaptation of speech in a virtually shortened vocal tract* Oral presentation at the National Conference on Undergraduate Research (NCUR), Cheney, Washington.
- Bernal, B., & **Berry, J.** (2014). *Sensorimotor adaptation of vowel production in stop consonant contexts*. Oral presentation at the National Conference on Undergraduate Research (NCUR), Lexington, Kentucky.
- Berry, J.**, Bechel, C., North, C., & Johnson, M.T. (2013). *Learning novel articulatory-acoustic mappings in dysarthria*. Poster presentation at the Conference of the American Speech-Language-Hearing Association, Chicago, Illinois [Designated as a Meritorious Poster Submission – one of the highest peer-review scores in the topic area of Motor Speech in Adults and Children].

Berry, J., Strobel, M., & Palahniuk, S. (2013). *Coarticulatory influences on sensorimotor adaptation of speech.* Poster presentation at the Conference of the American Speech-Language-Hearing Association, Chicago, Illinois.

Berry, J., & Palahniuk, S. (2013). *Acoustic measurement of articulatory kinematics using vowel diadochokinesis.* Poster presentation at the Conference of the American Speech-Language-Hearing Association, Chicago, Illinois.

Berry, J., Ji, A., & Johnson, M.T. (2013). *Dynamic aspects of vowel production in Mandarin-accented English.* Poster presentation at the Conference of the American Speech-Language-Hearing Association, Chicago, Illinois [Designated as a Meritorious Poster Submission – one of the highest peer-review scores in the topic area of Speech Science].

Berry, J. (2008). *Acoustic resynthesis in motor speech disorders: toward biofeedforward therapy.* Oral presentation at the Conference of the American Speech-Language-Hearing Association, Chicago, Illinois.

Berry, J. (2004). *Control of short-lag VOT (voice-onset-time) for voiced English stops.* Poster presented at the Conference of the Acoustical Society of America, *JASA*, 115, 2465A.

Berry, J. (2002). *Acoustic effects of speaking rate changes in articulatory models.* Poster presented at the Conference of the Acoustical Society of America, *JASA*, 112, 2442A.

Weismer, G., Yunusova, Y., & **Berry, J. (2002).** *Investigation of labio-lingual coordination in the production of formant frequencies for /u/: Normal speakers and speakers with dysarthria.* Poster presented at the Conference of the Acoustical Society of America, *JASA*, 112, 2416A.

Berry, J., & Weismer, G. (2000). *Effects of speaking rate on vowel formant trajectories.* Poster presented at the Conference of the Acoustical Society of America, *JASA*, 198, 2507A.

Weismer, G., & **Berry, J. (1997).** *An acoustic model of gestural overlap: Further studies.* Poster presented at the Conference of the Acoustical Society of America, *JASA*, 102, 3166A.

i. Regional

Berry, J., Bechel, C., North, C., Meyers, B., & Johnson, M. (2013). *Learning novel articulatory-acoustic relations in severe dysarthria.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Wisconsin Dells, Wisconsin [Awarded 3rd Place in Research Competition].

Berry, J., Palahniuk, S., North, C., Meyers, B., & Johnson, M. (2013). *Speech motor learning with a virtual vocal tract.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Wisconsin Dells, Wisconsin.

- Berry, J., Strobel, M., & Palahniuk, S. (2013).** *Sensorimotor adaptation in connected speech.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Wisconsin Dells, Wisconsin.
- Berry, J. (2012).** *Sensorimotor adaptation for speech rehabilitation.* Oral presentation given at the Wisconsin Speech-Language-Hearing Association 2012 Convention, Milwaukee, Wisconsin.
- Palahniuk, S., & **Berry, J. (2012).** *Articulatory-acoustic relationships during vocalic diadochokinesis.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Milwaukee, Wisconsin [Awarded 3rd Place in Research Competition].
- Isaksson, E., & **Berry, J. (2012).** *Perceptual accommodation for talker idiosyncrasies in speaking rate variation.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Milwaukee, Wisconsin.
- Berry, J. (2011)** *Speech analysis and resynthesis in the assessment and treatment of dysarthria.* Oral presentation given at the Wisconsin Speech-Language-Hearing Association 2011 Convention, Stevens Point, Wisconsin.
- Bolgert, M., & **Berry, J. (2011).** *Normal aspects of oral diadochokinesis and speaking rate.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Stevens Point, Wisconsin [Awarded 1st Place in Research Competition].
- Berry, J., & Isaksson, E., (2011).** *Articulator movements during oral diadochokinesis.* Poster presented at the Wisconsin Speech-Language-Hearing Association Annual Research Symposium, Stevens Point, Wisconsin.

D. OTHER PRESENTATIONS

- McCormick, L., **Berry, J.,** Valla, B., Alexander, R. (2017). *Pediatric assessment of speech breathing in neuromuscular and musculoskeletal disorders.* Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Matamoros, I., Higgins, K., **Berry, J.,** Barnes, S., & Long, S. (2017). *Auditory feedback training of English-accented Spanish pronunciation.* Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Matamoros, I., **Berry, J.,** Barnes, S., & Long, S. (2017). *English-accented Spanish vowel analysis.* Poster presented at the Annual Research Symposium of the Marquette University McNair Summer Research Institute, Milwaukee, Wisconsin.
- McCormick, L., **Berry, J.,** Valla, B., Alexander, R. (2017). *Pediatric assessment of speech breathing in neuromuscular and musculoskeletal disorders.* Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.

- Higgins, K., **Berry, J.**, Barnes, S., & Long, S. (2017). *Acoustic vowel space analysis of English-accented Spanish*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Turner, M., & **Berry, J.** (2017). *Consonant cluster production in Mandarin-accented English*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Bagin, R., Schroeder, J., & **Berry, J.** (2016). *Speech sensorimotor adaptation using a virtual vocal tract*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Schroeder, J., & **Berry, J.** (2016). *Interpolating 2D and 3D palates from electromagnetic articulography data*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Stoll, A., Schroeder, J., & **Berry, J.** (2016). *Perceptual and acoustic characteristics of Mandarin accented English vowels*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Barnes, S., **Berry, J.**, Long, S., Bello-Almazan, J., & Berry, M. (2015). *Improving service to the Hispanic community through pronunciation training of Marquette students*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Runnoe, E., Schroeder, J., **Berry, J.**, & Johnson, M. T. (2015). *Sensory modality effects on virtual speech learning*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Vonderhaar, J., Johnson, M. T., & **Berry, J.** (2015). *Scaling factor in the RASS speech processing system*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Vonderhaar, K., Johnson, M. T., & **Berry, J.** (2015). *Reduction of interference between EGG and EMA systems*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Alikiaamiri, S., Johnson, M. T., & **Berry, J.** (2015). *Comparing performance of acoustic-to-articulatory inversion between native and non-native speakers*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Jones, J., Johnson, M. T., & **Berry, J.** (2015). *Kinematic templates for automatic pronunciation assessment*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.

- D'Astice, A., Runnoe, E., Schroeder, J., Bagin, R., Kolb, A., & **Berry, J.** (2015). *Acoustic effects of virtual speech learning on voiced vowel production*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Bagin, R., D'Astice, A., Runnoe, E., Schroeder, J., Kolb, A., & **Berry, J.** (2015). *Relationships between vocal and articulatory acoustics during vowel production*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Runnoe, E., Schroeder, J., Bagin, R., D'Astice, A., Kolb, A., & **Berry, J.** (2015). *Effects of auditory masking on tongue kinematics during speech and virtual speech*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Schroeder, J., Bagin, R., D'Astice, A., Runnoe, E., Kolb, A., & **Berry, J.** (2015). *Software development for speech sensorimotor learning research*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Heiderscheidt, N., **Berry, J.**, & Johnson, M.T. (2014). *Auditory feedback manipulations in pronunciation modification training of non-native speakers*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Zhou, X., **Berry, J.**, & Johnson, M.T. (2014). *Mapping articulatory features to synthesis parameters for rehabilitative speech therapy*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Kolb, A., **Berry, J.**, & Johnson, M.T. (2014). *Clinical measures of speech and swallowing disorders based on electromagnetic articulography*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Bernal, B., Hefel, R., Wesley, J., Jaeger, J., & **Berry, J.** (2014). *Sensorimotor adaptation through a virtually shortened vocal tract*. Oral presentation at the 24th Annual Research Symposium of the Marquette University McNair Summer Research Institute, Milwaukee, Wisconsin.
- Gries, R., Bernal, B., Werking, E., Heiderscheidt, N., Runnoe, E., & **Berry, J.** (2014). *Predicting a virtual vocal tract size using vowel measurements*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Heiderscheidt, N., Runnoe, E., Bernal, B., Gries, R., Werking, E., & **Berry, J.** (2014). *Involuntary learning within virtually perturbed speech*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Runnoe, E., Gries, R., Werking, E., Bernal, B., Heiderscheidt, N., & **Berry, J.** (2014). *Sensorimotor adaptation in a virtually lengthened vocal tract*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.

- Werking, E., Heiderscheidt, N., Runnoe, E., Bernal, B., Gries, R., & **Berry, J.** (2014). *Sensorimotor adaptation in response to virtually perturbed speech*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Bernal, B., **Berry, J.**, & Johnson, M.T. (2013). *Sensorimotor adaptation using multiple acoustic cues*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin [Awarded 1st Place in Research Competition].
- Ji, A., Zhou, X., Johnson, M.T., & **Berry, J.** (2013). *Articulatory space normalization for EMA-MAE data set*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Zhou, X., **Berry, J.**, & Johnson, M.T. (2013). *Parameter mapping for articulatory speech synthesis*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Bernal, B., Hefel, R., Wesley, J., Jaeger, J., & **Berry, J.** (2013). *Sensorimotor adaptation of vowel production in stop consonant contexts*. Plenary oral presentation at the 23rd Annual Research Symposium of the Marquette University McNair Summer Research Institute, Milwaukee, Wisconsin.
- Hefel, R., Wesley, J., Jaeger, J., Bernal, B., & **Berry, J.** (2013). *Sensorimotor adaptation of vowel production in mixed coarticulatory contexts*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Wesley, J., Jaeger, J., Bernal, B., Hefel, R., & **Berry, J.** (2013). *Sensorimotor adaptation of vowel production in fricative consonant contexts*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Jaeger, J., Bernal, B., Hefel, R., Wesley, J., & **Berry, J.** (2013). *Design and methods for speech sensorimotor adaptation experiments*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Zhou, X., Johnson, M. T., & **Berry, J.** (2012). *Rehabilitation articulatory speech synthesizer*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Ji, A., Johnson, M. T., & **Berry, J.** (2012). *Speaker independent acoustic to articulatory inversion*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Nugraha, L., Strobel, M., Palahniuk, S., & **Berry, J.** (2012). *Method of sensorimotor adaptation of connected speech*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.

- Strobel, M., Nugraha, L., Palahniuk, S., & **Berry, J.** (2012). *Sensorimotor adaptation in connected speech*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- North, C., & **Berry, J.** (2011). *Speech adaptation with articulatory speech synthesis*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Palahniuk, S., Isaksson, E., & **Berry, J.** (2011). *Articulator movements during oral diadochokinesis: gender differences*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Berry, J.**, & Bolgert, M. (2010). *Speech adaptation for rehabilitation*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin [Awarded 1st Place in Research Competition].
- Meyer, B., & **Berry, J.** (2010). *Palate adaptations of a vocal tract model: effects on articulatory speech synthesis*. Poster presented at the Marquette University Biomedical Sciences Summer Research Program Poster Session, Milwaukee, Wisconsin.
- Berry, J.**, & Romenesko, M. (2009). *Adaptive control of speech-articulator movements in traumatic brain injury*. Poster presented at the Marquette University Forward Thinking Poster Session/Colloquy, Milwaukee, Wisconsin.
- Berry, J.**, & Romenesko, M. (2009). *Acoustic modeling of Mandarin English*. Poster presented at the Marquette International Research Poster Session, Milwaukee, Wisconsin.
- Berry, J.**, & Romenesko, M. (2008). *Speech resynthesis for accent reduction training*. Oral presentation given at the Marquette University Forward Thinking Poster Session/Colloquy Presentation, Milwaukee, Wisconsin.

IV. RESEARCH GRANTS

A. FUNDED GRANTS

- Berry, J.**, Barnes, S., & Long, S. (2017). Sponsor: Marquette University: Strategic Innovation Fund. Title: "Improving Service to the Hispanic Community Through Pronunciation Training of Marquette Students." \$3,120. Role: PI.
- Johnson, M.T., & **Berry, J.** (2016). Sponsor: National Science Foundation: Robust Intelligence – EAGER – Research Experience for Undergraduates Supplement. Title: "Acoustic-Articulator Modeling for Computer Aided Pronunciation Training." \$8,000. Funding period: December 21, 2016 – July 31, 2017. Role: Co-PI.

- Johnson, M.T., & **Berry, J.** (2015). Sponsor: National Science Foundation: Robust Intelligence – EAGER – Research Experience for Undergraduates Supplement. Title: “Acoustic-Articulator Modeling for Computer Aided Pronunciation Training.” \$8,000. Funding period: December 15, 2015 – June 31, 2016. Role: Co-PI.
- Barnes, S., **Berry, J.**, Long, S., Bello-Almazan, J., & Berry, M. (2015). Sponsor: Marquette University – Jump Start Grant. Title: “Improving Service to the Hispanic Community through Pronunciation Training of Marquette Students.” \$1000. Funding period: January 1, 2016 – June 1, 2016. Role: PI.
- Iuzzini-Seigel, J., **Berry, J.**, & Goffman, L. (2015). Sponsor: American Speech-Language-Hearing Association – Advancing Academic-Research Careers (AARC) Award. \$5000. Funding period: August 31, 2015-February 1, 2017. Role: Teaching Mentor.
- Berry, J.** & Johnson, M.T. (2015). Sponsor: Marquette University– Regular Research Grant. Title: “Speech Rehabilitation Using a Virtual Vocal Tract.” \$10,000. Funding period: January 20, 2015 – December 31, 2015. Role: PI.
- Johnson, M.T., & **Berry, J.** (2014). Sponsor: National Science Foundation: Robust Intelligence – EAGER – Research Experience for Undergraduates Supplement. Title: “Acoustic-Articulator Modeling for Computer Aided Pronunciation Training.” \$8,000. Funding period: October 1, 2014 – August 31, 2015. Role: Co-PI.
- Johnson, M.T., & **Berry, J.** (2013). Sponsor: National Science Foundation: Robust Intelligence – Small. Title: “Speaker Independent Acoustic-Articulator Inversion for Pronunciation Assessment.” \$449,643. Funding period: August 1, 2013 – July 31, 2018. Role: Co-PI.
- Berry, J.** & Bernal, B. (2013). Sponsor: Marquette University – Jump Start Grant. Title: “Sensorimotor Adaptation of Connected Speech using Multiple Acoustic Cues.” \$1000. Funding period: November 15, 2013 – June 1, 2014. Role: PI.
- Johnson, M.T., & **Berry, J.** (2013). Sponsor: National Science Foundation: Robust Intelligence – International Collaboration Supplement. Title: “Acoustic-Articulator Modeling for Pronunciation Analysis.” \$19,844. Funding period: February 12, 2013 – July 31, 2013. Role: Co-PI.
- Berry, J.** (2011). Sponsor: American Speech-Language-Hearing Foundation – New Century Scholars Research Grant. Title: “Speech Adaptation in Dysarthria: Effects of Real Time Articulatory Synthesis.” \$10,000. Funding period: December 15, 2011 – May 31, 2014. Role: PI.
- Johnson, M.T., & **Berry, J.** (2011). Sponsor: National Science Foundation: Robust Intelligence – EAGER – Research Experience for Undergraduates Supplement. Title: “Acoustic-Articulator Modeling for Pronunciation Analysis.” \$8,000. Funding period: December 15, 2011 – July 31, 2013. Role: Co-PI.

- Johnson, M.T., & **Berry, J.** (2011). Sponsor: National Science Foundation: Robust Intelligence – EAGER. Title: “Acoustic-Articulator Modeling for Pronunciation Analysis.” \$149,896. Funding period: August 1, 2011 – July 31, 2013. Role: Co-PI.
- Berry, J.** (2011). Sponsor: Marquette University– Summer Faculty Fellowship. Title: “Dysarthria Rehabilitation Using Speech Adaptation via Articulatory Speech Synthesis.” \$5500. Funding period: January 20, 2011 – June 30, 2011. Role: PI.
- Berry, J.** (2011). Sponsor: Marquette University– Regular Research Grant. Title: “Dysarthria Rehabilitation Using Speech Adaptation via Articulatory Speech Synthesis.” \$6000. Funding period: January 20, 2011 – December 31, 2011. Role: PI.
- Berry, J. & Bolgert, M.** (2008). Sponsor: Marquette University – Jump Start Grant. Title: “Speech Adaptation for Rehabilitation.” \$1000. Funding period: November 15, 2008 – June 1, 2009. Role: PI.
- Berry, J.** (2008). Sponsor: Marquette University – Research Development Program Award. Title: “Acoustic Resynthesis in Motor Speech Disorders.” \$2,300. Funding period: September 25, 2008 – August 31, 2009. Role: PI.

B. GRANTS IN REVIEW

- Berry, J., Barnes, S., Long, S., & Povinelli** (2017). Sponsor: Marquette University: Explorer Challenge. Title: “Improving Spanish Pronunciation Training using Auditory Biofeedback.” \$22,009. Role: PI.
- Berry, J., & Johnson, M.T.** (2017). Sponsor: National Institutes of Health (NIDCD): AREA R15. Title: “Speech Sensorimotor Control in Non-progressive Dysarthria.” \$449,054. Role: PI.

C. RESEARCH CONSULTING

- Kuruvilla-Dugdale, M. (2017). Sponsor: National Institutes of Health (NIDCD): AREA R15. Title: “A Systematic Investigation of Phonetic Complexity Effects on Articulatory Motor Performance in Progressive Dysarthria.” \$427,189 Funding period: July 15, 2017 – July 14, 2020. Role: Consultant.
- Kuo, C. (2017). Sponsor: James Madison University. Title: “Task-Elicited Changes in the Kinematic and Acoustic Gestures of Diphthongs.” Role: Consultant.
- Kim, Y. (2012). Sponsor: National Institutes of Health (NIDCD): R03. Title: “The same dysarthria in different languages: Hypokinetic dysarthria in English and Korean.” \$419,882. Funding period: September 13, 2012 – August 31, 2017. Role: Consultant.

D. GRANTS NOT FUNDED

- Berry, J., Barnes, S., & Long, S.** (2015). Sponsor: American Speech-Language-Hearing Association - Grant Program for Projects on Multicultural Activities. Title: "Improving Service to the Hispanic Community through Pronunciation Training of Marquette Students." \$10,000. Role: PI.
- Berry, J., Johnson, M.T., & Scheidt, R.** (2014). Sponsor: National Institutes of Health (NIDCD): AREA R15. Title: "Sensorimotor adaptation in dysarthria using a virtual vocal tract." \$439,149. Role: PI.
- Povinelli, R., Johnson, M.T., & **Berry, J.** (2012). Sponsor: National Science Foundation: Robust Intelligence – Medium. Title: "Robust Assessment of Speech Intelligibility." \$1,156,802. Role: Co-PI.
- Berry, J.** (2012). Sponsor: American Speech-Language-Hearing Association – Lessons for Success Fellowship. \$2,500. Role: PI.
- Povinelli, R., Johnson, M.T., & **Berry, J.** (2011). Sponsor: National Science Foundation: Robust Intelligence – Medium. Title: "Objective Assessment of Speech Intelligibility." \$1,198,861. Role: Co-PI.
- Berry, J.** (2010). Sponsor: American Speech-Language-Hearing Association – Lessons for Success Fellowship. \$2,500. Role: PI.
- Berry, J.** (2009). Sponsor: American Speech-Language-Hearing Foundation – New Century Scholars Research Grant. Title: "How Slow Can You Go: Speaking Rate and Oral Diadochokinesis." \$10,000. Role: PI.
- Baylis, A., & **Berry, J.** (2008). Sponsor: Clinical and Translation Science Institute of Southeastern Wisconsin. Title: "Effects of Biofeedback on Audible Nasal Emission in Speakers with Repaired Cleft Palate." \$47,367. Role: Co-PI.

V. COURSES TAUGHT

Courses Taught at Marquette University

SPPA 1100 Anatomy & Physiology of Speech (3 Credits, Undergraduate): 10 Semesters

SPPA 3140 Speech Science (3 Credits, Undergraduate): 11 Semesters

SPPA 6410 Voice Disorders (3 Credits, Graduate): 8 Semesters

SPPA 6420 Swallowing Disorders (3 Credits, Graduate): 8 Semesters

SPPA 6730 Procedures in Medical & School Settings (3 Credits, Graduate): 2 Semesters

SPPA 294 Seminar in Medical Speech-Language Pathology (3 Credits, Graduate): 1 Semester

SPPA 4996/6995 Independent Study (1 –3 Credits, Undergraduate/Graduate): 4 Semesters

SPPA 1001 Introduction to Communication Disorders (Undergraduate): 8 Lectures/year

DENT 6003 Dental Graduate Core Curriculum – Speech Pathology (1 Credit, Graduate): 10 Semesters

SPPA 6790 Clinical Grand Rounds (Graduate): 1 Lecture/year

Health Careers Opportunity Program (HCOP) Instructor – Summer 2010 &2014 (35 contact hours)

SPPA 4964 Practicum in Speech Language Pathology (clinical supervision): 10 Students

Courses Taught at Other Institutions

University of Wisconsin-Madison. COM DIS 315 Articulatory & Phonological Disorders (3 Credits, Undergraduate): 1 Semester

VI. THESIS COMMITTEES & MENTORING

McNair Scholars Program Mentor, Itzel Matamoros, Marquette University Department of Speech Pathology and Audiology, *English-accented Spanish vowel analysis*. (completed August 2017).

Master's Thesis Committee Member, Deriq Jones, Marquette University Department of Electrical and Computer Engineering, *Articulatory Kinematic Templates for Pronunciation Analysis* (completed August 2017).

Master's Thesis Committee Chair, Jason Meinhardt, Marquette University School of Dentistry, Graduate Program in Orthodontics, *Effects of Palatal Expansion on Speech Production* (completed, May, 2017).

Master's Thesis Committee Member, Joseph Vonderhaar, Marquette University Department of Electrical and Computer Engineering, *Method for Calibrating Speaker-Specific Articulatory Synthesis Models* (completed April 2017).

Master's Thesis Committee Member, Kelly Vonderhaar, Marquette University Department of Electrical and Computer Engineering, *Effects of Electrolottography on Electromagnetic Articulography Tracking* (completed August 2016).

Master's Thesis Committee Member, Xiangyu Zhou, Marquette University Department of Electrical and Computer Engineering, *Least-Squares Mapping from Kinematic Data to Acoustic Synthesis Parameters for Rehabilitative Acoustic Learning* (completed December 2015).

Master's Thesis Committee Member, Andrew Kolb, Marquette University Department of Electrical and Computer Engineering, *The Development of Software Tools and Methods for the Use of EMA Data* (completed May 2015).

Dissertation Committee Member, An Ji, Marquette University Department of Electrical and Computer Engineering, *Speaker Independent Acoustic-to-Articulator Inversion* (completed December 2014).

McNair Scholars Program Mentor, Brittany Bernal, Marquette University Department of Speech Pathology and Audiology, *Sensorimotor Adaptation of Speech Through a Virtually Shortened Vocal Tract* (completed August 2014).

Dissertation Committee Member, Jianglin Wang, Marquette University Department of Electrical and Computer Engineering, *Non-phonetic Feature Extraction for Bilingual Speaker Recognition and Bio-acoustic Censusing* (completed December 2013).

McNair Scholars Program Mentor, Brittany Bernal, Marquette University Department of Speech Pathology and Audiology, *Coarticulatory Influences on Speech Sensorimotor Adaptation* (completed August 2013).

Marquette University Biomedical Sciences Summer Research Mentor (2010-Present: 18 students).

Marquette University Engineering Senior Design Program Sponsor (2010-2013: 16 students).

Marquette University Preparing Future Faculty Program Mentor for Scott Palahniuk.

VII. PROFESSIONAL ACTIVITIES AND SERVICE

A. Reviewing and Consulting for Professional Publications/Organizations

Ad hoc manuscript reviewer for:

American Journal of Speech-Language Pathology

Journal of Clinical Orthodontics

Journal of Phonetics

Journal of Speech, Language, and Hearing Research

Journal of the Acoustical Society of America

Speech Communication

Transactions on Biomedical Engineering

- 2018 Speech and Language Science Program Committee Member, 2018 American Speech-Language-Hearing Association Annual Convention.
- 2016 Guest Associate Editor – *Journal of Speech, Language, Hearing Research* (4 manuscripts).
- 2016 Ad hoc Grant Reviewer, National Science Foundation, Division of Behavioral and Cognitive Sciences.
- 2016 Editorial Review Board Member, *Perspectives in Speech Science*.
- 2015 Editorial Review Board Member, 2016 International Conference on Motor Speech.
- 2013 Editorial Review Board Member, 2014 International Conference on Motor Speech.
- 2013 Guest Associate Editor – *Journal of Speech, Language, Hearing Research* (2 manuscripts).
- 2011 Editorial Review Board Member, 2012 International Conference on Motor Speech.
- 2011 Judge – Wisconsin Speech-Language-Hearing Association Research Symposium.
- 2011 Midwestern Association of Graduate Schools Master's Thesis Reviewer.
- 2010 Judge – Wisconsin Speech-Language-Hearing Association Research Symposium.
- 2005 Speech Science Program Committee Member, 2005 American Speech-Language-Hearing Association Annual Convention.

B. Professional Affiliations, Certifications, and Licenses

Certificate of Clinical Competence in Speech-Language Pathology, American Speech-Language-Hearing Association

Wisconsin Department of Safety and Professional Services, License – Speech-Language Pathology

Member, Acoustical Society of America

Member, American Speech, Language, and Hearing Association (ASHA)

Member, ASHA Special Interest Division 13, Swallowing and Swallowing Disorders

Member, ASHA Special Interest Division 19, Speech Science

VIII. COMMITTEES AND UNIVERSITY SERVICE

A. Departmental

- 2013-Present Speech Pathology and Audiology Undergraduate Advisor
- 2015 Speech Pathology and Audiology Faculty Search Committee
- 2015 Speech Pathology and Audiology Strategic Planning Committee
- 2014 Speech Pathology and Audiology Chair Search Committee
- 2014-2015 Speech Pathology and Audiology Junior Faculty Search Committee
- 2007-2014 Speech Pathology and Audiology Administrative Committee
- 2007-2014 Speech Pathology and Audiology Instructional Committee
- 2007-present Speech Pathology and Audiology Graduate Admissions Committee (odd years)
- 2007-present Speech Pathology and Audiology Undergraduate Scholarship Committee (even years)

B. University

- 2015-2016 Marquette Inter-Professional Education Development Team: Adult Discharge Planning, Learning Module Development Expert

IX. INVITED PROFESSIONAL PRESENTATIONS

Adult Care Teams. (2011, October). WSHA Student Conference, Moderator and Panel Member, Marquette University.

Pre-Proposal Contacts. (2009, September). Marquette Office of Research and Sponsored Programs Brown Bag Meeting, Panel Member, Marquette University.

X. HONORS AND AWARDS

Awarded 1st place at the Marquette University 2015 Forward Thinking Poster Session/Colloquy

Edward W. Carroll Excellence in Teaching Award - 2015, Marquette University College of Health Sciences.

Awarded 1st place at the Marquette University 2013 Forward Thinking Poster Session/Colloquy.

Recognized for two Meritorious Poster Submissions (highly-rated peer review scores: only 53 out of 1634 submissions received this distinction) for the 2013 American Speech-Language-Hearing Association Annual Convention.

Awarded 3rd place at the 2013 Wisconsin Speech-Language-Hearing Association Research Symposium.

Awarded a course buy-out sponsored by the Marquette Center for Teaching and Learning to participate in the 2013 Seminar on Catholic Identity.

Awarded 3rd place at the 2012 Wisconsin Speech-Language-Hearing Association Research Symposium.

Awarded 1st place at the 2011 Wisconsin Speech-Language-Hearing Association Research Symposium.

Awarded 1st place at the Marquette University 2010 Forward Thinking Poster Session/Colloquy.

Awarded the David Bauer Fellowship to participate in the 2008-2009 Marquette University Research Development Program.

XI. MEDIA

Featured in *M: Milwaukee's Lifestyle Magazine*, January 2014. "Inspired to Inspire: Served People in Need."

Featured in *Marquette Engineer Magazine*. "2013 Research Yearbook (with Dr. Michael T. Johnson)."

Featured in *Discover: Marquette University Research and Scholarship 2012*. "Speak for Yourself."

Noted in the *ASHA Leader*, January 17, 2012, Vol. 17(1). "ASHFoundation Awards \$238,500."

Expert consultant for the *Milwaukee Journal Sentinel*, December 1, 2011. "Having the Pipes, Just Part of Making Magic on the Radio."