**Julie M. Liss, Ph.D.**

Associate Dean & Professor, Arizona State University

Co-Founder Aural Analytics, Inc.

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**Education:**

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| 1989 | Ph.D. Normal Aspects of Speech and Hearing  University of Wisconsin - Madison |
| 1986 | M.A. Speech Pathology  University of Denver |
| 1984 | B.A. Psychology/ Communication Disorders  University of Wisconsin - Madison |

**Academic and Professional Appointments:**

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| --- | --- |
| 2013 – Present | Associate Dean, College of Health Solutions, Arizona State University |
| 2012 – Present | Professor, Arizona State University |
| 1997 – 2012 | Interim Chair, Dept. of Speech and Hearing Science, Arizona State University |
| 2006 – 2007 | Associate Professor, Arizona State University |
| 1994 – 1997 | Assistant Professor, Arizona State University |
| 1990 – 1994 | Assistant Professor, University of Minnesota |
| 1990 | Speech- Language Pathologist, Dean Clinic, Madison, WI |
| 1987 – 1989 | Project Assistant, Apraxia of Speech Project, UW- Madison |
| 1986 – 1987 | Speech- Language Pathologist, VA Hospital, Madison, WI |
| 1986 | Teaching Assistant, University of Denver  Speech- Language Pathologist, Darrell Teter and Associates, Denver, CO |

**Industry Appointments:**

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| 2015 – 2023 | Co- founder, Aural Analytics |

**Research Consultantships:**

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| 2015- Present | Research Associate, University of Arizona, Center on Aging |
| 2008-2015 | Research Associate Professor, Barrow Neurological Institute |
| 2004-2015 | Senior Adjunct Researcher, Mayo Clinic – Scottsdale |
| 1995-2004 | Special Project Associate, Mayo Clinic- Scottsdale |
| 1997-1998 | Project Affiliate, “Braining Imaging and the Behavioral Neuroscience”, Good Samaritan Hospital |

**Professional Status:**

Certified (Certificate of Clinical Competence, Speech- Language Pathology)

American Speech- Language Hearing Association.

**Professional Affiliations:**

|  |  |
| --- | --- |
| 1986 – Present | Member, American Speech-Language-Hearing Association |
| 1988 – Present | Member, Acoustical Society of America |
| 2011 | Fellow, American Speech-Language-Hearing Association |
| 1994 – 1997 | Member, International Clinical Phonetics & Linguistic Association |
| 1990 – 1997 | Member, Sigma Xi Scientific Research Society |
| 1990 – 1995 | Member, Sigma Delta Epsilon, Graduate Women in Science |
| 1991 – 1994 | Member, Board of Directors, Sigma Delta Epsilon, Xi Chapter |

**Professional Committees:**

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| --- | --- |
| 1987 – Present | Program Committee for American Speech-Language-Hearing Association |
| 1987-2010 | Session Chair, Acoustical Society of America |
| 2022 | Planning Committee, Conference on Motor Speech, SC |
| 2020 | Planning Committee, Conference on Motor Speech, CA |
| 2008 | Conference Chair, Conference on Motor Speech, CA |
| 2004 | Program Committee, Conference on Motor Speech, NM |
| 2000 | Program Committee, Conference on Motor Speech, TX |

**Academic Program Reviewer:**

University of Arizona, Department of Speech and Hearing Science, March 2020

**Advisory Boards:**

Boston University, Department of Speech, Language and Hearing Science 2020 – 2025, NIH T32

New Zealand Institute of Language Brain and Behavior, Christchurch New Zealand, University of Canterbury 2014 – 2020

**Honors and Awards:**

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| 2017 | Winner of Script Award for Best Technological Development for Clinical Trials |
| 2016 | Journal of Speech, Language and Hearing Editors Award |
| 2015-2016 | Arizona State University Leadership Academy Award |
| 2015 | National Academic of Sciences Keck Futures Initiative |
| 2015 | Harvard Business School New Venture Competition Finalist |
| 2015 | International Vodafone Wireless Innovation Challenge Finalist |
| 2014 | JSLHR- Speech Editor’s “Rhythym as a coordinating device: Entrainment with disordered speech” Award |
| 2013 | 1st Place Acoustical Society of American Signal Processing Application Challenge Award |
| 2011 | Fellow of the American Speech-Language- Hearing Association Award |
| 2011 | ASU Graduate College Outstanding Doctoral Mentor Award |
| 2009 | JSLHR – Speech Editor’s “Quantifying Rhythm Deficits in the Dysarthrias” Award |

**Recognition in the National Press:**

1. **Scientific American:** “AI in medicine is overhyped,” opinion, written by Visar Berisha and Julie Liss, October 19, 2022.
2. **Wall Street Journal:** “New study shows boxing’s early toll on Muhammad Ali,” written by Jonathan Eig, Visar Berisha, and Julie Liss, August 2017.
3. **ESPN:** “Muhammad Ali exhibited slowed, slurred speech well before Parkinson's diagnosis, study finds,” written by William Weinbaum, August 2017.
4. **New York Times, Science Section:** “The earliest signs of brain damage in athletes? Listen for them,” written by Dr. Larry Altman, June 2017.
5. **Slate Magazine:** “What if your cell phone data can reveal whether you have Alzheimer’s?,” written by Visar Berisha & Julie Liss, June 2017.
6. **New York Times, Science Section:** “Parsing Ronald Reagan’s Words for Early Signs of Alzheimer's,” written by Dr. Larry Altman, March 2015.
7. **Yahoo! Health:** “Researchers Analyze Ronald Reagan's Speech for Early Signs of Alzheimer's,” written by Korin Miller, March 2015.
8. **Interview on National Public Radio**: “Arizona State University Researchers Explore New Way to Diagnose Neurological Diseases,” interview by Mark Brodie, April 2015.
9. **USA Today, Technology Section:** “CES to include new generation of smartwear for health,” written by Michael Feibus, December 2015.

**PUBLICATIONS**

*\* The asterisk denotes research conducted by graduate or undergraduate students under my sole or joint supervision. The listing below shows the most recent publications first; they are numbered in descending order.*

1. \*Kinahan, S., Liss, J.M., & Berisha, V. (2023).​​ TorchDIVA: An extensible computational model of speech production built on an open-source machine learning library. *PLOS ONE*
2. \*Yawer, B. A., **Liss, J.,** & Berisha, V. (2023). Reliability and validity of a widely-available AI tool for assessment of stress based on speech. *Scientific reports*, *13*(1), 20224.
3. \*Kadambi, P., Stegmann, G. M., **Liss, J.,** Berisha, V., & Hahn, S. (2023). Wav2DDK: Analytical and Clinical Validation of an Automated Diadochokinetic Rate Estimation Algorithm on Remotely Collected Speech. *Journal of Speech, Language, and Hearing Research*, *66*(8S), 3166-3181.
4. Stegmann, G., Charles, S., **Liss, J.,** Shefner, J., Rutkove, S., & Berisha, V. (2023). A speech-based prognostic model for dysarthria progression in ALS. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 1-6.
5. \*Xu, L., Mueller, K. D., **Liss, J.,** & Berisha, V. (2023, June). Decorrelating Language Model Embeddings for Speech-Based Prediction of Cognitive Impairment. In *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)* (pp. 1-5). IEEE.
6. \*Voleti, R., Woolridge, S.M., **Liss, J.**M., Milanovic, M., Stegmann, G., Hahn, S., Harvey, P.D., Patterson, T.L., Bowie, C.R. and Berisha, V.(2023). Language analytics for assessment of mental health status and functional competency. *Schizophrenia Bulletin*, Jan 2023.
7. \*Wynn, C., Barrett,T., Berisha, V., **Liss, J.**M., Borrie, S. (2023). Speech Entrainment in Adolescent Conversations: A Developmental Perspective *Journal of Speech, Language, and Hearing Research*
8. \*Xu, L-F, **Liss, JM**, Berisha, V (in press as of 2022). Dysarthria detection based on a deep learning model with a clinically-interpretable layer," *JASA Express Letters.*
9. \*Tran, K., \*Xu, L., Stegmann, G., **Liss, J**., Berisha, V., Utianski, R. (2022). Investigating the impact of speech compression on the acoustics of dysarthric speech. *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH.*
10. Berisha, V., Kransevich, C., Stegmann, G., Hahn, S., **Liss, J**. (2022). Are reported accuracies in the clinical speech machine learning literature overoptimistic? *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH.*
11. Stegmann, G, Hahn, S, Bhandari, S, **Liss, J.,** et al. Automated semantic relevance as an indicator of cognitive decline: Out-of-sample validation on a large-scale longitudinal dataset. *Alzheimer's Dement*. 2022; 14:e12294. <https://doi.org/10.1002/dad2.12294>
12. Berisha V, Krantsevich C, Hahn PR, Hahn S, Dasarathy G, Turaga P, **Liss J**. Digital medicine and the curse of dimensionality. NPJ Digit Med. 2021 Oct 28;4(1):153. doi: 10.1038/s41746-021-00521-5. PMID: 34711924; PMCID: PMC8553745.
13. \*Ambadi, P. & Basche, K., Koscik, R., Berisha, V., **Liss, J**. and Mueller, K. (2021). Spatio-Semantic Graphs From Picture Description: Applications to Detection of Cognitive Impairment. Frontiers in Neurology. 12. 795374. 10.3389/fneur.2021.795374.
14. Chong, C.D., Zhang J., Li J., Wu T., Dumkrieger G., Nikolova S., Ross K., Stegmann G., **Liss J.,** Schwedt TJ., Jayasuriya S., Berisha V (2021). Altered Speech Patterns in Subjects with Post-Traumatic Headache due to Mild Traumatic Brain Injury. *Journal of Headache and Pain.* 22;82, (1-12). <https://doi.org/10.1186/s10194-021-01296->
15. Stegmann, G. M., Hahn, S., Duncan, C. J., Rutkove, S. B., **Liss, J**., Shefner, J. M., & Berisha, V. (2021). Estimation of forced vital capacity using speech acoustics in patients with ALS. *Amyotrophic lateral sclerosis & frontotemporal degeneration*, *22*(sup1), 14–21. https://doi.org/10.1080/21678421.2020.1866013
16. Mahr TJ, Berisha V, Kawabata K, **Liss J**, Hustad KC. Performance of forced-alignment algorithms on children’s speech. *J Speech Lang Hear Res*. 2021;64(6S):2213-2222.
17. \*Mathad VC, Scherer N, Chapman K, **Liss J**, Berisha V. An attention model for hypernasality prediction in children with cleft palate. In: *ICASSP 2021 - 2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE; 2021:7248-7252.
18. Stegmann, G. M., Hahn, S., **Liss**, J., Shefner, J., Rutkove, S., Shelton, K., Duncan, C., Cayla, J., Berisha, V. (2020). Author Correction: Early detection and tracking of bulbar changes in ALS via frequent and remote speech analysis. *NPJ digital medicine*, *3*(1), 1-5.
19. Stegmann G, M, Hahn S, **Liss** J, Shefner J, Rutkove S, B, Kawabata K, Bhandari S, Shelton K, Duncan C, J, Berisha V (2020) Repeatability of Commonly Used Speech and Language Features for Clinical Applications. *Digital Biomarkers*;4:109-122. doi: 10.1159/000511671
20. Borrie, S. A., Barrett, T. S., **Liss,** J. M., & Berisha, V. (2020). Sync Pending: Characterizing Conversational Entrainment in Dysarthria Using a Multidimensional, Clinically Informed Approach. Journal of Speech, Language, and Hearing Research, 63(1), 83-94.
21. \*Saxon, M., Tripathi, A., Jiao, Y., **Liss**, J. M., & Berisha, V. (2020). Robust estimation of hypernasality in dysarthria with acoustic model likelihood features. IEEE/ACM Transactions on Audio, Speech, and Language Processing, 28, 2511-2522.
22. \*Mathad, V. C., Chapman, K., **Liss**, J., Scherer, N., & Berisha, V. (2020). Deep Learning Based Prediction of Hypernasality for Clinical Applications. In *ICASSP 2020-2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)* (pp. 6554-6558). IEEE.
23. Rutkove, S. B., Narayanaswami, P., Berisha, V., **Liss**, J., Hahn, S., Shelton, K., Qi, K., Pandeya, S. & Shefner, J. M. (2020). Improved ALS clinical trials through frequent at‐home self‐assessment: a proof of concept study. *Annals of Clinical and Translational Neurology*.
24. \*McGuffin, B. J., **Liss**, J. M., & Daliri, A. (2020). The Orofacial Somatosensory System Is Modulated During Speech Planning and Production. *Journal of Speech, Language, and Hearing Research*, *63*(8), 2637-2648.
25. Rutkove, S. B., Narayanaswami, P., Berisha, V., **Liss**, J., Hahn, S., Shelton, K., Qi, K., Pandeya, S., Shefner, J. M. (2020). Reply to: Frequent self‐assessments in ALS clinical trials: Worthwhile or an unnecessary burden?. *Annals of Clinical and Translational Neurology*, *7*(10), 2076-2077.
26. \*Mathad, V. C., Scherer, N., Chapman, K., **Liss**, J. M., Berisha, V. (2020). A Deep Learning Algorithm for Objective Assessment of Hypernasality in Children with Cleft Palate. *arXiv preprint arXiv:2009.11354*.
27. Mahr, T., Berisha, V., Kawabata, K., **Liss**, J., Hustad, K. (2020). Performance of forced-alignment algorithms on children’s speech. *PsyArXiv*. DOI:10.31234/osf.io/97jp4.
28. Stegmann, G. M., Hahn, S., **Liss**, J., Shefner, J., Rutkove, S., Shelton, K., Duncan, C., Cayla, J., Berisha, V. (2020). Early detection and tracking of bulbar changes in ALS via frequent and remote speech analysis. *NPJ digital medicine*, *3*(1), 1-5.
29. Berisha, V., Sandoval, S., Utianski, R.L., Wisler, A., **Liss,** J., and Spanias, A. (2019). Minimizing the Effects of Idiosyncratic Features in Pathological Speech Analysis. *IEEE Transactions on Biomedical Engineering* (TBME).
30. \*Voleti, R. N. U., **Liss,** J., & Berisha, V. (2019). A Review of Automated Speech and Language Features for Assessment of Cognition and Thought Disorders. *IEEE Journal of Selected Topics in Signal Processing IEEE journal of selected topics in signal processing 14 (2), 282-298.*
31. Berisha, V., **Liss**, J., Jones, D., Hahn, S., Rutkove, S., Shelton, K., Au, R., Shefner, J. (2019). Work in Progress: An Industry‐Clinical‐Academic Partnership For Digital And Persistent Assessment Of Motor And Cognitive‐Linguistic Outcomes. *Alzheimer's & Dementia*. 2019;15(7): 165.
32. LaCross, A., Sandoval, J., **Liss**, J. The influence of word size and tonal sequence probability on Mandarin well-formedness judgments. *The Journal of the Acoustical Society of America*. 2019;146(4):3053-3053.
33. (published abstract) \*Voleti, R., **Liss**, J. M., & Berisha, V. (2019). A Review of Automated Speech and Language Features for Assessment of Cognitive and Thought Disorders. *IEEE Journal of Selected Topics in Signal Processing*, *14*(2), 282-298.
34. \*Voleti, R., Woolridge, S., Liss, J. M., Milanovic, M., Bowie, C. R., & Berisha, V. (2019). Objective assessment of social skills using automated language analysis for identification of schizophrenia and bipolar disorder. *arXiv preprint arXiv:1904.10622*.
35. Rutkove, S. B., Qi, K., Shelton, K., **Liss,** J., Berisha, V., & Shefner, J. M. (2019). ALS longitudinal studies with frequent data collection at home: study design and baseline data. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, *20*(1-2), 61-67.
36. \*Jiao, Y., LaCross, A., Berisha, V., & **Liss,** J. (2019). Objective Intelligibility Assessment by Automated Segmental and Suprasegmental Listening Error Analysis. *Journal of Speech, Language, and Hearing Research*, *62*(9), 3359-3366.
37. Rutkove, S., Qi, K., Shelton, K., **Liss,** J., Berisha, V., Shefner, J. (2019). ALS longitudinal studies with frequent data collection at home: study design and baseline data. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration* (IAFD).
38. \*Utianski, R., Sandoval, S., Berisha, V., Lansford, K., **Liss,** J. (2019). The effects of speech compression algorithms on the intelligibility of two individuals with dysarthric speech. *American Journal of Speech-Language Pathology*.
39. \*Slovarp, L., Danielson, J., & **Liss,** J. (2018). Inter-rater Agreement of Clinicians’ Treatment Recommendations Based on Modified Barium Swallow Study Reports. *Dysphagia*, 1-9.
40. \*Fletcher, A. R., McAuliffe, M. J., Lansford, K., & **Liss,** J. M. (2017). Assessing articulatory impairment in dysarthria: An analysis of methods. *Journal of Speech, Language and Hearing Research*.
41. \*Fletcher, A.R., McAuliffe, M.J., Lansford, K.L., **Liss,** J.M. (2017). Assessing vowel centralization in dysarthria: A comparison of methods. *Journal of Speech, Language, and Hearing Research, 60*(2), 341-354.
42. Berisha, V., \*Wang, S., \*LaCross, A., **Liss,** J., & Garcia-Filion, P. (2017). Longitudinal changes in linguistic complexity among professional football players. *Brain and language*, *169*, 57-63.
43. \*Fletcher, A. R., McAuliffe, M. J., Lansford, K. L., Sinex, D. G., & **Liss,** J. M. (2017). Predicting intelligibility gains in individuals with dysarthria from baseline speech features. *Journal of Speech, Language, and Hearing Research*, *60*(11), 3043-3057.

1. \*Fletcher, A. R., Wisler, A. A., McAuliffe, M. J., Lansford, K. L., & **Liss,** J. M. (2017). Predicting intelligibility gains in dysarthria through automated speech feature analysis. *Journal of Speech, Language, and Hearing Research*, *60*(11), 3058-3068.
2. \*Jiao, Y., Berisha, V., **Liss,** J., \*Hsu, S. C., Levy, E., & McAuliffe, M. (2017). Articulation entropy: An unsupervised measure of articulatory precision. *IEEE Signal Processing Letters*, *24*(4), 485-489.
3. Dorman, M. F., **Liss,** J., \*Wang, S., Berisha, V., Ludwig, C., & Natale, S. C. (2016). Experiments on auditory-visual perception of sentences by users of unilateral, bimodal, and bilateral cochlear implants. *Journal of Speech, Language, and Hearing Research*, *59*(6), 1505-1519.
4. \*Slovarp, L., King, L., Off, C., & **Liss,** J. (2016). A pilot study of the tongue pull-back exercise for improving tongue-base retraction and two novel methods to add resistance to the tongue pull-back. *Dysphagia*, *31*(3), 416-423.
5. LaCross, A., **Liss,** J., \*Barragan, B., Adams, A., Berisha, V., McAuliffe, M., & Fromont, R. (2016). The role of stress and word size in Spanish speech segmentation. *The Journal of the Acoustical Society of America*, *140*(6), EL484-EL490.
6. \*Jiao, Y., \*Tu, M., Berisha, V., & **Liss,** J. M. (2016). Accent Identification by Combining Deep Neural Networks and Recurrent Neural Networks Trained on Long and Short Term Features. In *Interspeech* (pp. 2388-2392).
7. \*Fletcher, A. R., McAuliffe, M. J., Lansford, K., & **Liss,** J. M. (2016). Assessing articulatory impairment in dysarthria: An analysis of methods. *Journal of Speech, Language, and Hearing Research.*
8. \*Tu, M., Wisler, A., Berisha, V., & **Liss,** J. M. (2016). The relationship between perceptual disturbances in dysarthric speech and automatic speech recognition performance. *The Journal of the Acoustical Society of America*, *140*(5), EL416-EL422.
9. \*Fletcher, A. R., McAuliffe, M. J., Lansford, K. L., & **Liss,** J. M. (2015). The relationship between speech segment duration and vowel centralization in a group of older speakers. *The Journal of the Acoustical Society of America*, *138*(4), 2132-2139.
10. \*Jiao, Y., Berisha, V., \*Tu, M., & **Liss,** J. (2015). Convex weighting criteria for speaking rate estimation. *IEEE/ACM transactions on audio, speech, and language processing*, *23*(9), 1421-1430.
11. Berisha, V., \*Wang, S., LaCross, A., & **Liss,** J. (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. *Journal of Alzheimer's Disease*, *45*(3), 959-963.
12. \*Utianski, R. L., Caviness, J. N., & **Liss,** J. M. (2015). Cortical characterization of the perception of intelligible and unintelligible speech measured via high-density electroencephalography. *Brain and language*, *140*, 49-54.
13. \*Fletcher, A. R., McAuliffe, M. J., Lansford, K. L., & **Liss,** J. M. (2014, December). Distinguishing Dysarthric Speech: Vowel Acoustics and Measurement. In *Proceedings of the 15th International Australasian Conference on Speech Science and Technology* (Vol. 239).
14. Berisha, V., **Liss,** J., \*Sandoval, S., Utianski, R., & Spanias, A. (2014, May). Modeling pathological speech perception from data with similarity labels. In *Acoustics, Speech and Signal Processing (ICASSP), 2014 IEEE International Conference on*(pp. 915-919). IEEE.
15. \*Lansford, K. L., **Liss,** J. M., & Norton, R. E. (2014). Free-classification of perceptually similar speakers with dysarthria. *Journal of Speech, Language, and Hearing Research*, *57*(6), 2051-2064.
16. Borrie, S. A., & **Liss,** J. M. (2014). Rhythm as a coordinating device: entrainment with disordered speech. *Journal of Speech, Language, and Hearing Research*, *57*(3), 815-824.
17. Berisha, V., \*Sandoval, S., Utianski, R., **Liss,** J., & Spanias, A. (2014). Characterizing the distribution of the quadrilateral vowel space area. *The Journal of the Acoustical Society of America*, *135*(1), 421-427.
18. \*Lansford, K. L., & **Liss,** J. M. (2014). Vowel acoustics in dysarthria: Speech disorder diagnosis and classification. *Journal of Speech, Language, and Hearing Research*, *57*(1), 57-67.
19. \*Lansford, K. L., & **Liss,** J. M. (2014). Vowel acoustics in dysarthria: Mapping to perception. *Journal of Speech, Language, and Hearing Research*, *57*(1), 68-80.
20. \*Sandoval, S., Berisha, V., Utianski, R. L., **Liss,** J. M., & Spanias, A. (2013). Automatic assessment of vowel space area. *The Journal of the Acoustical Society of America*, *134*(5), EL477-EL483.
21. Berisha, V., \*Sandoval, S., Utianski, R., **Liss,** J., & Spanias, A. (2013, May). Selecting disorder-specific features for speech pathology fingerprinting. In *Acoustics, Speech and Signal Processing (ICASSP), 2013 IEEE International Conference on* (pp. 7562-7566). IEEE.
22. Berisha, V., Utianski, R., & **Liss,** J. (2013, May). Towards a clinical tool for automatic intelligibility assessment. In *Acoustics, Speech and Signal Processing (ICASSP), 2013 IEEE International Conference on* (pp. 2825-2828). IEEE.
23. **Liss,** J. M., Utianski, R., & \*Lansford, K. (2013). Crosslinguistic application of English-centric rhythm descriptors in motor speech disorders. *Folia Phoniatrica et Logopaedica*, *65*(1), 3-19.
24. \*Borrie, S. A., McAuliffe, M. J., **Liss,** J. M., O'Beirne, G. A., & Anderson, T. J. (2013). The role of linguistic and indexical information in improved recognition of dysarthric speech. *The Journal of the Acoustical Society of America*, *133*(1), 474-482. DOI: 10.1121/1.4770239.
25. \*Choe, Y. K., **Liss,** J. M., Azuma, T., & Mathy, P. (2012). Evidence of cue use and performance differences in deciphering dysarthric speech. *The Journal of the Acoustical Society of America*, *131*(2), EL112-EL118.
26. \*Borrie, S. A., McAuliffe, M. J., & **Liss,** J. M. (2012). Perceptual learning of dysarthric speech: A review of experimental studies. *Journal of Speech, Language, and Hearing Research*, *55*(1), 290-305. DOI: 10.1044/1092-4388(2011/10-0349.
27. \*Borrie, S. A., McAuliffe, M. J., **Liss,** J. M., O’Beirne, G. A., & Anderson, T. J. (2012). A follow-up investigation into the mechanisms that underlie improved recognition of dysarthric speech. *The Journal of the Acoustical Society of America*, *132*(2), EL102-EL108.
28. \*Borrie, S. A., McAuliffe, M. J., **Liss,** J. M., Kirk, C., O'Beirne, G. A., & Anderson, T. (2012). Familiarisation conditions and the mechanisms that underlie improved recognition of dysarthric speech. *Language and Cognitive Processes*, *27*(7-8), 1039-1055. DOI:10.1080/01690965.2011.610596
29. \*Lansford, K. L., **Liss,** J. M., Caviness, J. N., & Utianski, R. L. (2011). A cognitive-perceptual approach to conceptualizing speech intelligibility deficits and remediation practice in hypokinetic dysarthria. *Parkinson’s Disease*, *2011*.
30. \*Utianski, R. L., \*Lansford, K. L., **Liss,** J. M., & Azuma, T. (2011). The effects of topic knowledge on intelligibility and lexical segmentation in hypokinetic and ataxic dysarthria. *Journal of medical speech-language pathology*, *19*(4), 25.
31. **Liss,** J. M., LeGendre, S., & Lotto, A. J. (2010). Discriminating dysarthria type from envelope modulation spectra. *Journal of Speech, Language, and Hearing Research*, *53*(5), 1246-1255.
32. **Liss,** J. M., White, L., Mattys, S. L., \*Lansford, K., Lotto, A. J., Spitzer, S. M., & Caviness, J. N. (2009). Quantifying speech rhythm abnormalities in the dysarthrias. *Journal of speech, language, and hearing research*, *52*(5), 1334-1352.
33. \* Spitzer, S., **Liss,** J., Spahr, T., Dorman, M., & \*Lansford, K. (2009). The use of fundamental frequency for lexical segmentation in listeners with cochlear implants. *The Journal of the Acoustical Society of America*, *125*(6), EL236-EL241.
34. Mattys, S. L., & **Liss,** J. M. (2008). On building models of spoken-word recognition: When there is as much to learn from natural “oddities” as artificial normality. *Perception & Psychophysics*, *70*(7), 1235-1242.
35. Weismer, G., Barlow, S., Smith, A., Caviness, J.N., **Liss,** J.M., & Finan, D. (2008). Driving critical initiatives in motor speech. *Journal of Medical Speech- Language Pathology, 16*(4), 283- 295.
36. \*Spitzer, S. M., **Liss,** J. M., & Mattys, S. L. (2007). Acoustic cues to lexical segmentation: A study of resynthesized speech. *The Journal of the Acoustical Society of America*, *122*(6), 3678-3687.
37. \*Choe, Y. K., Azuma, T., Mathy, P., **Liss,** J. M., & Edgar, J. (2007). The effect of home computer practice on naming in individuals with nonfluent aphasia and verbal apraxia. *Journal of Medical Speech-Language Pathology*, *15*(4), 407-422.
38. Arvanitakis, Z., Witte, R.J., Dickson, D.W., Tsuboi, Y., Uitti, R., Slowinski, J., Hutton, M., Lin, S., Boeve, B., Cheshire, W., Pooley, R., **Liss,** J.M., Caviness, J.N., Strongosky, A. & Wszolek, Z. (2007). Clinical-pathologic studies of biomarkers in FTDP-17 (PPND family with N279K tau mutation). *Parkinson’s Disease and Related Disorders*, *13*(4), 230-239.
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52. \*Wilcox, F., **Liss**, J.M., & Siegel, G. (1996). Interobserver agreement in videofluoroscopic swallowing examinations. *Journal of Speech and Hearing Research, 39,* 144-152.
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55. **Liss,** J. M., Kuehn, D. P., & Hinkle, K. P. (1994). Direct training of the velopharyngeal musculature. *National Center for Voice and Speech Status and Progress Reports*, *6*, 43-52.
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60. **Liss,** J.M., Weismer, G., & Rosenbek, J.C. (1990). Selected acoustic characteristics of the speech production in very old males. *Journal of Gerontology: Psychological Sciences, 45*, 35-45.
61. McNeil, M.R., **Liss,** J.M., Tseng, C., & Kent, R.D. (1990). Effects of speech rate on the absolute and relative timing of apraxic and conduction aphasic sentence production. *Brain and Language, 38*, 122-134.
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**Books:**

1. Corbin-Lewis, K. & **Liss,** J.M. (2014). *Clinical Anatomy and Physiology of the Swallow Mechanism, 2nd Edition.* Cengage.
2. Berisha, V., \*Sandoval, S., **Liss, J**. *Bandwidth Extension of Speech Using Perceptual Criteria.* Synthesis Lectures on Algorithms and Software in Engineering. 2013 Nov 13;5(2):1-83.
3. Corbin-Lewis, K., **Liss,** J.M. & Sciortino, K. (2004). *Clinical Anatomy and Physiology of the Swallow Mechanism***.** Thomson Delmar Learning, Clifton Park NY. (Translated into Japanese and Portuguese).

**Invited Chapters:**

1. **Liss, J.**(2023-24). Speech Intelligibility. Handbook of Clinical Linguistics, 2nd Edition.
2. White, L., **Liss,** J.M., & Dellwo, V. (2011). Assessment of rhythm. In A. Lowit & R.D. Kent (Eds.), ***Assessment of Motor Speech Disorders.*** Pp. 213-252. San Diego: Plural Publishing.
3. **Liss,** J.M., Lansford, K., Caviness, J.N. (2009). Lewy Body Dementia. In J. Rosenbek (Ed.) ***The Encyclopedia of Oropharyngeal Dysphagia in Rare Conditions***, pp. 171-178. San Diego: Plural Publishing.
4. **Liss,** J.M. (2007). Perception of dysarthric speech. In G. Weismer (Ed.). ***Motor Speech Disorders: Essays for Ray Kent*,** pp. 187-219.San Diego:Plural Publishing.
5. Weismer, G. & **Liss,** J.M. (1991). Speech motor control and aging. In D. Ripich (Ed.), ***Handbook of Geriatric Communication Disorders***, pp. 205-225. Austin: Pro-Ed.
6. Kent, R.D., **Liss,** J.M., & Philips, B.J. (1989). Acoustic analysis of velopharyngeal dysfunction in speech. In K. Bzoch (Ed.), ***Communicative Disorders Related to Cleft Lip and Palate*** (Revised Edition), pp. 258-270. Boston: Little-Brown.
7. **Liss,** J.M., Dromey, C., & Yorkston, K. (2008). Preface to Special Edition (Conference on Motor Speech). *Journal of Medical Speech-Language Pathology.*
8. Weismer, G. & **Liss,** J.M. (1991). Acoustic/perceptual taxonomies of disordered speech. In C. Moore, K.Yorkston and D. Beukelman (Eds.), Dysarthria and apraxia of speech: Perspectives and management. pp. 245-270, London: Brookes.
9. Weismer, G., **Liss, J. M.**, Moore, C. A., Yorkston, K. M., & Beukelman, D. R. (1991). Reductionism is a dead-end in speech research: Perspectives on a new direction. *Dysarthria and apraxia of speech: Perspectives on management*, 15-28.

**PRESENTATIONS**

*\* The asterisk denotes research conducted by graduate or undergraduate students under my sole or joint supervision. The listing below shows the most recent publications first; they are numbered in descending order.*

**Invited Speaker at Professional Conferences:**

1. **Liss, J.** (2023). Panel Discussion on AI in Speech Treatment. American Speech-Language-Hearing Association Annual Convention. Boston, MA.
2. **Liss, J.** & Berisha, V. (2023). Presentation of AI in Speech Research American Speech-Language-Hearing Association Annual Convention. Boston, MA.
3. **Liss, J.** (2023). Virtual presentation on JSLHR Registered Reports. OpenScience Forum.
4. **Liss** J. (March 2017). Inaugural Distinguished Speaker for Boston University’s new Center for Research in Sensory Communication and Emerging Neural Technology (CRESCENT). Boston, MA
5. Berisha, V., & **Liss,** J. (2017, December). New technologies for measures of clinical progression. Seminar presented at the *28th International Symposium on ALS/MND*, Boston, MA.
6. **Liss** J. (June 2016). Keynote speaker. Chinese International Speech and Hearing Association. Guangzhou-Foshan, China.
7. Utianski, R.L., **Liss,** J.M., Starling, A., Halker, R., Vargas, B., Caviness, J.N., and Dodick, D. (March 2015). Network analysis of resting state EEG recordings: detecting acute and residual effects of concussion. Cognitive Neuroscience Society Meeting.
8. **Liss,** J.M., Utianski, R.L., Lansford, K., and McAuliffe M. (February 2014). “Cross-Linguistic Application of English-Centric Rhythm Descriptors in Motor Speech Disorder.” *Conference on Motor Speech,* Sarasota, FL.
9. **Liss,** J.M. (January 2012). “The use of rhythm metrics in the cross-linguistic perception of speech.” *Sixth Auditory Cognitive Neuroscience Society Conference,* Tucson AZ.
10. **Liss,** J.M. (January 2011). “The Underutilization of Theory in Clinical Decision-Making” *Fifth Auditory Cognitive Neuroscience Society Conference,* Tucson AZ.
11. **Liss,** J.M. (October 2010). “Theory-Driven Practice in Intelligibility Deficits in Dysarthria” NSSHLA Crossroads, Purdue University.
12. **Liss,** J.M. (January 2010). “Using Natural Degradation to Test Theories of Speech Perception.” Presentation, *Fourth Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ.
13. **Liss,** J.M., Lotto, A.J., Lansford, K. (October 2009). “Disordered Speech as a Testing Ground for Listener Learning and Adaptation.” Special session on Perceptual Learning and Adaptation, *Acoustical Society of America*, San Antonio, TX.
14. **Liss,** J.M. (January 2009). “Perceptual-Cognitive Flexibility in Communication.” Presentation, *Third Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ.
15. **Liss,** J.M. (January 2008). “The Perception of Degraded Speech.” *Second Annual Meeting of the Auditory Cognitive Science Society*, Tucson, AZ.
16. Lotto, A.J. & **Liss,** J.M. (November 2007). “Applications and implications of basic research into the processing of complex sound perception.” *NSSHLA Educational Forum*, University of Arizona.
17. **Liss,** J.M. (January 2007). “Predicting Intelligibility from Auditory Cognitive Models.” *First Annual Meeting of the Auditory Cognitive Science Society*, Tucson, AZ.
18. **Liss,** J.M., & Caviness, J.N. (1997). "Understanding neurogenic speech and movement disorders: A clinical approach. *Arizona Speech-Language and Hearing Association* Convention, Phoenix, AZ.
19. **Liss,** J.M. (1995). "Assessment and Treatment of Childhood Motor Speech Disorders." *18th Annual Summer Institute for the Management of Communicative Disorders*, Utah State University.
20. **Liss,** J.M. (1994). "Differential Diagnosis of Motor Speech Disorders."  *Western Kentucky Conference on Communication Disorders*, Murray State University, Murray, KY.
21. **Liss,** J.M. (1993). "Error-repair in Apraxia of Speech."  *National Center for Neurogenic Communication Disorders*, University of Arizona, Tucson, AZ.
22. **Liss,** J.M. (1993). "Treatment of Motor Speech Disorders."  *Seventh National Conference on Stroke*, North Memorial Medical Center, Minneapolis, MN.
23. Weismer, G., & **Liss,** J.M. (1992). "A second look at reductionism in speech research." *Sixth Biennial Conference on Motor Speech*, Boulder, CO.
24. **Liss,** J.M. (1991). "Our Changing Role in the Diagnosis and Treatment of Motor Speech Disorders." *Spring Convention of the Minnesota Speech- Language-Hearing Association,* Bloomington, MN

**Refereed Scientific and Professional Presentations:**

1. Incomplete for 2023, multiple international student presentations at IEEE
2. Stegmann, G**.**, Hahn, S., **Liss, J.**, Berisha, V., Mueller, K. (2022, November). *Increasing study power via frequent speech-based assessments of cognition.* Clinical Trials on Alzheimer’s Disease. San Francisco, California.
3. Shefner, J., Paganoni, S., Cudkowicz, M., Berry, J., Hahn, S., Stegmann, G., **Liss, J**., Berisha, V., Kittle, G., Bailey, A., Macklin, E. (2022). *Baseline speech assessment and vital capacity measured remotely and in clinic in the HEALEY ALS Platform Trial*. ENCALS. Edinburgh, Scotland.
4. Stegmann, G., Hahn, S., **Liss, J.**, Shefner, J., Rutkove, S., Berisha, V. (2022, October). *Compliance in remote ALS studies and the effect on estimation of slope of rate of progression.* North Eastern Amyotrophic Lateral Sclerosis Meeting. Clearwater, FL.
5. Stegmann, G., **Liss, J.,** Hahn, S., Shefner, J., Duncan, J., Mohan, P., Berisha, V. (2022, February). *Practice effects on speaking rate for cognitively impaired and cognitively normal individuals.* Motor Speech Conference. Charleston, NC.
6. Stegmann, G**.**, Hahn, S., **Liss, J.**, Berisha, V., Mueller, K.D. (2021). *Large-scale cross-sectional and longitudinal validation of digital speech-based measure of cognition.* Alzheimer’s & Dementia.
7. Stegmann, G**.**, Hahn, S., **Liss, J.,** Berisha, V., Mueller, K.D. (2021). *Comparison of remote and in-person digital speech-based measures of cognition.* Alzheimer’s & Dementia.
8. Stegmann, G.,Hahn, S., **Liss, J.**, Berisha, V., Mueller, K.D. (2021). *Digital speech-based measures separate those with cognitive impairment from those without.* Alzheimer’s & Dementia.
9. Nancy Scherer, Vikram Mathad, Kelly Cordero, Kari Lien, Jessica Williams, **Julie Liss,** Visar Berisha ASHA 2021 November Preliminary Validation of an Automated Speech Analysis Tool for Hypernasality and Speech Acceptability
10. KM Mueller, RL Koscik2, S Hahn, G Stegmann, J **Liss**, and V Berisha (October 2020). Using speech measures as rapid prognostic indicators of cognitive decline: Applications to clinical trial enrichment. Clinical Trials on Alzheimer’s Disease Conference. Poster presented. (Virtual).
11. V. Berisha, J. **Liss**, D. Jones, S. Hahn, S. Rutkove, K. Shelton, R. Au, J. Shefner (July 2020) Work in progress: An industry-clinical-academic partnership for digital and persistent assessment of motor and cognitive-linguistic outcomes. Poster presented. Alzheimer’s Association International Conference. (Virtual)
12. J. Hlavnička, V. Berisha, J. **Liss**, J. Rusz (February 2020).A comparison of interpretable acoustic features identified diverse tendencies in several motor speech disorders. Oral presentation. Biennial Conference on Motor Speech. (Santa Barbara, CA).
13. G. Stegmann, S. Hahn, V. Berisha, J. **Liss**, S. Rutkove, K. Qi, K. Shelton, J. Shefner (February 2020). Evaluating the Validity of Using Speech Analytics for Remotely Tracking Amyotrophic Lateral Sclerosis (ALS) Progress. Oral presentation Biennial Conference on Motor Speech. (Santa Barbara, CA).
14. J. **Liss**, Y. Jiao, V. Berisha, A. LaCross (February 2020). Automating Objective Measures of Change in Speech Intelligibility.Oral presentation. Biennial Conference on Motor Speech. (Santa Barbara, CA).
15. Vikram C Mathad, Kathy Chapman, Julie **Liss**, Nancy Scherer, Visar Berisha, (June 2020). 'DEEP LEARNING BASED PREDICTION OF HYPERNASALITY FOR CLINICAL APPLICATIONS.' ICASSP 2020 Paper #4247, titled (Virtual Presentation).
16. LaCross, A., Sandoval, J., & **Liss,** J. (November 2019). The influence of word size and tonal sequence probability on Mandarin well-formedness judgments. Poster Presentation. The 94th Annual Meeting of the Linguistic Society of America. (New Orleans, NO)
17. \*Voleti, R., Woolridge, S., **Liss,** J. M., Milanovic, M., Bowie, C. R., & Berisha, V. (2019). Objective Assessment of Social Skills Using Automated Language Analysis for Identification of Schizophrenia and Bipolar Disorder. In *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH* (Vol. 2019, pp. 1931-1935).
18. \*Saxon, M., **Liss,** J., & Berisha, V. (2019, May). Objective Measures of Plosive Nasalization in Hypernasal Speech. In *ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)* (pp. 6520-6524). IEEE.
19. \*Voleti, R., **Liss**, J. M., & Berisha, V. (2019, May). Investigating the Effects of Word Substitution Errors on Sentence Embeddings. In *ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)* (pp. 7315-7319). IEEE.
20. \*Peplinski, J., Berisha, V., **Liss,** J., Hahn, S., Shefner, J., Rutkove, S., ... & Shelton, K. (2019, May). Objective Assessment of Vocal Tremor. In *ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)* (pp. 6386-6390). IEEE.
21. \*Tu, M., \*Grabek, A., **Liss, J.**, & Berisha, V. (2018). Investigating the role of L1 in automatic pronunciation evaluation of L2 speech. *arXiv preprint arXiv:1807.01738*.
22. \*Jiao, Y., \*Tu, M., Berisha, V., **Liss,** J. (2018) Simulating dysarthric seech for training data augmentation in clinical speech applications. In *2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP).*
23. Berisha, V., **Liss,** J., \*Tu, M. (2018) A primer on clinical-speech applications of deep learning. Motor Speech Conference, Savannah, GA.
24. LaCross, A., Sandoval, J., & **Liss,** J.M. (November 2018). Influence of Word Size & Tonal Sequence Probabilities on Mandarin Segmentation Errors. Poster Presentation. 176th Meeting of the Acoustical Society of America. (Victoria, BC, Canada).
25. **Liss,** J.M., Gray, S., Cannon, M., & Barkmeier-Kraemer, J. (November 2018). So You Want to be an ASHA Journal Reviewer? ASHA Convention. (Boston, MA). Oral Presentation.
26. Storkel, H., Cherney, L.R. & **Liss**, J.M. (November 2018). How to Launch & Build a Successful Research Career. ASHA Convention. (Boston, MA). Oral Presentation.
27. Storkel, H. & **Liss**, J.M. (November 2017). How to Launch & Build a Successful Research Career. Asha Convention. (Los Angeles, CA). Oral Presentation.
28. Barragan, B., McGurrin, P., Uehara, K., **Liss**, J.M., Santello, M. (November 2017). The Role of Primary Motor Cortex (M1) in Non-Word Recognition. ASHA Convention. (Los Angeles, CA). Poster Presentation.
29. Berisha, V., **Liss, J.**, \*Huston, T., \*Wisler, A., \*Jiao, Y., & Eig, J. (2017). Float like a butterfly sting like a bee: Changes in speech preceded parkinsonism diagnosis for Muhammad Ali. *Proc. Interspeech 2017*, 1809-1813.
30. \*Jiao, Y., Berisha, V., & **Liss, J.** (2017, March). Interpretable phonological features for clinical applications. In *Acoustics, Speech and Signal Processing (ICASSP), 2017 IEEE International Conference on* (pp. 5045-5049). IEEE.
31. \*Tu, M., Berisha, V., & **Liss, J.** (2017, March). Objective assessment of pathological speech using distribution regression. In *Acoustics, Speech and Signal Processing (ICASSP), 2017 IEEE International Conference on* (pp. 5050-5054). IEEE.
32. \*Jiao, Y., \*Tu, M., Berisha, V., & **Liss, J. M.** (2016). Accent Identification by Combining Deep Neural Networks and Recurrent Neural Networks Trained on Long and Short Term Features. In *Interspeech* (pp. 2388-2392).
33. \*Jiao, Y., \*Tu, M., Berisha, V., & **Liss,** J. (2016, March). Online speaking rate estimation using recurrent neural networks. In *Acoustics, Speech and Signal Processing (ICASSP), 2016 IEEE International Conference on* (pp. 5245-5249). IEEE.
34. \*Fletcher, A., McAuliffe, M., Weiss, A., Lansford, K., Sinex, D., & **Liss**, J. (2016). Comparing treatment strategies: Rate control and increased loudness. Presentation at Conference on Motor Speech, Madonna Rehabilitation Hospital, Newport Beach, CA.
35. Berisha, V., & **Liss,** J. (2016) Objective evaluation of perceptual quality in the dysarthrias: an engineering perspective. Motor Speech Conference, Savannah, GA.
36. LaCross, A., McAuliffe, M., **Liss**, J.M., Barragan, B., Adams, Berisha, V. (June 2016). The roles of stress and syllable number as a cue for Spanish speech segmentation. 2016 International Clinical Phonetics and Linguistics Association Conference (Halifax, Canada).
37. \*Fletcher, A., McAuliffe, M., Wisler, A., Lansford, K., Sinex, D., **Liss**, J. (March 2016). Comparing treatment strategies: Rate control and increased loudness. Poster Presentation. Madonna Motor Speech Conference (Newport Beach, CA).
38. Berisha, V., **Liss**, J.M., Wisler, A., Tu, M. (March 2016). Objective evaluation of perceptual quality in the dysarthrias: an engineering perspective. Madonna Motor Speech Conference (Newport Beach, CA).
39. \*Wisler, A., Berisha, V., Ramamurthy, K., Spanias, A., & **Liss, J.** (2015, April). Removing data with noisy responses in regression analysis. In *Acoustics, Speech and Signal Processing (ICASSP), 2015 IEEE International Conference on* (pp. 2066-2070). IEEE.
40. \*Sandoval, S, De Leon, P.L., **Liss**, J.M. (December 2015). Hilbert Spectral Analysis of Vowels using Intrinsic Mode Functions. Poster Presentation. 2015 IEEE Automatic Speech Recognition and Understanding Workshop (Scottsdale, AZ).
41. \*Fletcher, A., McAuliffe, M., Lansford, K., Sinex, D., & **Liss**, J. (November 2015). Predictors of intelligibility improvement in dysarthria: A treatment simulation study. Oral presentation given. American Speech-Language-Hearing Association Annual Convention, (Denver, CO).
42. \*Fletcher, A., McAuliffe, M., Lansford, K., & **Liss**, J. (November 2015). Assessing vowel centralization in dysarthria: A comparison of methods. Poster Presentation. 170th Meeting of the Acoustical Society of America. (Jacksonville, MS).
43. \*Wisler, A., Berisha, V., Ramamurthy, K., Spanias, A., **Liss**, J.M. (April 2015). Removing Data with Noisy Responses in Regression Analysis. 40th IEEE International Conference on Acoustics, Speech and Signal Processing (Brisbane, Queensland).
44. \*Utianski, R.L., **Liss**, J.M., Starling, A., Singh, R.H., Vargas, B., Dodick, D., Caviness, J. (March 2015). Network analysis of resting state electroencephalographic recordings: detecting acute and residual effects of concussion. Cognitive Neuroscience Society Annual Meeting (San Francisco, CA).
45. \*Fletcher, A., McAuliffe, M., Lansford, K., **Liss**, J., (December 2014). Distinguishing dysarthric speech: Vowel acoustics and measurement. Poster presentation. Australasian International Speech Science and Technology Conference. (Christchurch, New Zealand).
46. Borrie, S.A., Berisha, V., and **Liss**, J.M. (2014; Select-speaker Award Recipient). Computational modeling of conversational entrainment: A novel framework for examining spoken interaction in communication disorders. Psychonomic Society, Long Beach, California. November 20–23.
47. Borrie, S.A., Berisha, V., and **Liss**, J.M. (June 2014). Disorders of Conversation: Modeling Entrainment in Communication Disorders. Finding Common Ground: Social, Ecological, and Cognitive Perspectives on Language Use (Hartford, CT).
48. Borrie, S.A., Berisha, V., and **Liss**, J.M. (2014). Modelling spoken interaction in communication disorders. Finding Common Ground: Social, Ecological, and Cognitive Perspectives on Language Use, Stores, Connecticut: June 12–14.
49. **Liss**, J. M., Lansford, K. L., & McAuliffe, M. (March 2014). Cross-Linguistic Application of English-Centric Rhythm Descriptors in Motor Speech Disorders. Presentation at Conference on Motor Speech, Madonna Rehabilitation Hospital, Sarasota, FL.
50. Borrie, S.A., **Liss**, J.M, and Berisha, V. (2014). Conversational entrainment: A novel framework for modeling communication interactions in motor speech disorders. Seventeenth Biennial Conference on Motor Speech Disorders: Motor Speech Disorders and Speech Motor Control, Sarasota, Florida: February 27–March 2.
51. \*Lansford, K., Berisha, V., **Liss**, J.M., Utianski, R.L., and Sandoval, S. (February 2014). Effect of clinical experience on perceptions of speaker similarity in dysarthria. Conference on Motor Speech (Sarasota, FL).
52. \*Wisler, A., Berisha, V., **Liss, J.**, & Spanias, A. (2014, December). Domain invariant speech features using a new divergence measure. In *Spoken Language Technology Workshop (SLT), 2014 IEEE* (pp. 77-82). IEEE.
53. Berisha, V., **Liss, J.**, \*Sandoval, S., \*Utianski, R., & Spanias, A. (2014, May). Modeling pathological speech perception from data with similarity labels. In *Acoustics, Speech and Signal Processing (ICASSP), 2014 IEEE International Conference on* (pp. 915-919). IEEE.
54. \*Wang, S., Zhong, X., Dorman, M.F., Yost, W.A., **Liss**, J.M. (December 2013). Using tactile aids to provide low frequency information for cochlear implant users. 166th Meeting of the Acoustical Society of America (San Francisco, CA).
55. \*Sandoval,S., Utianski, R.L., Berisha,V., **Liss,** J.M., and Spanias, A. (December 2013). Feature divergence of pathological speech. 166th Meeting of the Acoustical Society of America (San Francisco, CA).
56. \*Helms-Tillery, K., Cook, S.J., Utianski, R.L., **Liss**, J.M., Dorman, M. (December 2013). A word to the eyes: Visual cues benefit lexical segmentation in noise. 166th Meeting of the Acoustical Society of America (San Francisco, CA).
57. \*Utianski,R.L., Sandoval,S., Lehrer, N. Berisha,V., and **Liss,** J.M. (December 2013). Speech assist: An augmentative tool for practice in speech-language pathology. 166th Meeting of the Acoustical Society of America (San Francisco, CA).
58. \*Utianski,R.L., Sandoval,S., Berisha,V., and **Liss,** J.M. (December 2013). The effects of speech compression algorithms on the intelligibility of dysarthric speech. 166th Meeting of the Acoustical Society of America (San Francisco, CA).
59. Borrie, S.A., \*Torres, H. and **Liss**, J.M. (2013). Rhythm as a coordinating device: Entrainment with dysarthric speech. Second International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden: June 16–19.
60. Berisha, V., Sandoval, S., Utianski, R.L., **Liss**, J.M., and Spanias, A. (May 2013). Selecting disorder-specific features for speech pathology fingerprinting. 38th International Conference on Acoustics, Speech, and Signal Processing (ICASSP).
61. Berisha, V., Utianski, R.L., and **Liss**, J.M. (May 2013). Toward a clinical tool for automatic intelligibility assessment. 38th International Conference on Acoustics, Speech, and Signal Processing (ICASSP).
62. Utianski, R.L. and **Liss**, J.M. (February 2013). Using a neurophysiological and theoretical framework to guide the remediation of intelligibility disorders. 43rd Annual Mid-South Conference on Communicative Disorders (Memphis, TN).
63. Tahmina, Q., Bhandary, M., Azimi, B., Hu, Y., Utianski, R.L., and **Liss**, J.M. (October 2012). The effect of visual information on speech perception in noise by electroacoustic hearing.164th Meeting of the Acoustical Society of America, Kansas, Missouri.
64. \*Utianski, R.L., Caviness, J.N., **Liss**, J.M., Lotto, A.J., and Lansford, K.L. (May 2012). Cortical activation during the perception of intelligible and unintelligible speech as measured via high- density electroencephalography. 163rd Meeting of the Acoustical Society of America, Hong Kong.
65. \*Utianski, R.L., **Liss**, J.M., Lotto, A.J., and Lansford, K.L. (February 2012). The use of long-term average spectra (LTAS) in discriminating dysarthria types. Conference on Motor Speech, Santa Rosa, California.
66. \*Lansford, K., Norton, R., **Liss**, J.M., Utianski, R.L. (February 2012). Perceptual similarity of dysarthric speech. Conference on Motor Speech, Santa Rosa, California.
67. \*Utianski, R., Berisha, V., **Liss**, J.M., and Lansford, K. (November 2011). Automated rhythmic discrimination of dysarthria types. 162nd Meeting of the Acoustical Society of America, San Diego, CA.
68. \*Lansford, K.L., Norton, R., **Liss**, J.M. and Utianski, R.L. (November 2011). Free classification of dysarthric speech. 162nd Meeting of the Acoustical Society of America, San Diego, CA.
69. \*Carbonell, K., Lansford, K.L., Utianski, R.L., **Liss,** J.M., and Lotto, A. (November 2011). Discriminating language and talker using non-linguistic measures of rhythm, spectral energy and f0. 162nd Meeting of the Acoustical Society of America, San Diego, CA.
70. \*Borrie, S.A., McAuliffe, M.J., **Liss**, J.M., O’Beirne, G.A., and Anderson, T. (2011). The role of linguistic and indexical information in improved recognition of dysarthric speech. 162nd Meeting of the Acoustical Society of America, San Diego, California: Oct. 13–Nov. 4.
71. Hu, Y., Runge, C., Friedland, D. and **Liss,** JM (2011). The contributions of non-integer multiples of F0 to the benefites of electric-acoustic stimulation. CIAP
72. \*Schafer, MCM, McAuliffe, MJ, **Liss,** JM, O’Beirne, and Cai, S. Responses of older individuals to manipulations in auditory feedback: Preliminary findings (January 2011) Asia Pacific Conference.
73. \*Utianski, R.,Lansford, K., **Liss**, J.M., and Lotto, A. (May 2011). Envelope modulation spectrum: exploring the challenges to intelligibility of dysarthric speech. 161st Meeting of the Acoustical Society of America, Seattle, WA.
74. \*Lansford, K., **Liss**, J.M., Utianski, R.,Azuma, T., Dorman, M., and Lotto, A. (May 2011). Contribution of vowel distinctiveness to intelligibility and vowel identification accuracy of dysarthric speech.161st Meeting of the Acoustical Society of America, Seattle, WA.
75. \*Carbonell, K., Lansford, K., Utianski, R., **Liss**, J.M., Sullivan, S., and Lotto, A.J. (May 2011). Stable production rhythms across languages for bilingual speakers. 161st Meeting of the Acoustical Society of America, Seattle, WA.
76. \*Berg, D., **Liss**, J.M., Lansford, K.L., and Utianski, R.L. (May 2011). The Role of Low Frequency Acoustic Information in Vowel Perception: CI, EAS, and Simulations. ASU Speech and Hearing Science Student Research Symposium, Tempe, AZ.
77. \*Borrie, S. A., McAuliffe, M. J., **Liss**, J. M., O’Beirne, G. A., & Anderson, T. (2011). Perceptual learning of hypokinetic dysarthria: A follow-up investigation into the mechanisms that underlie passive and explicit learning of dysarthric speech. *Asia Pacific Conference on Speech, Language, and Hearing,* Christchurch, New Zealand: 11-14 January 2011.
78. Utianski, R., Lansford, K., & **Liss**, J.M. (November 2010). “Clinical Implications: Effects of Topic Knowledge on Intelligibility of Dysarthria.” Poster presented by K. Lansford at American Speech-Language Hearing Association Convention, Philadelphia, PA.
79. \*Borrie, S.A., McAuliffe, M.J., **Liss**, J.M., Kirk, C., O’Beirne, G.A., and Anderson, T. (2010). Perceptual learning and intelligibility gains in dysarthria associated with Parkinson’s disease. Health Research Society Canterbury: Seminar Series, Christchurch, New Zealand: July 16.
80. \*Borrie, S., McAuliffe, M.J., **Liss**, J.M., Kirk, C., O'Beirne, G.A., & Anderson, T. (March 2010). Familiarization conditions and the mechanisms that underlie improved recognition of dysarthric speech. *Language & Cognitive Processes*. Christchurch New Zealand.
81. \*Utianski, R., Lansford, K., & **Liss**, J.M. (March 2010). “The effects of topic knowledge on intelligibility and lexical segmentation of hypokinetic and ataxic dysarthria.” *Conference on Motor Speech*, Savannah, GA.
82. \*Choe, Y-k., **Liss**, J.M., Azuma, T., Lotto, A.J., & Mathy, P. (March 2010). “ Individual Differences in Perceptual Strategies.” *Conference on Motor Speech*, Savannah, GA.
83. \*Borrie, S.A., McAuliffe, M.J., **Liss**, J.M., Kirk, C., O’Beirne, G.A., and Anderson, T. (2009). Learning to better understand distorted speech: An investigation into perceptual learning of dysarthria. New Zealand Speech-language Therapists’ Association Biennial Conference: Practice Worth Spreading, Wellington, New Zealand: April 22–23.
84. \*Borrie, S.A., McAuliffe, M.J., Liss, J.M., Kirk, C., O’Beirne, G., & Anderson, T. (March 2010). “A comparison of familiarisation modes on perceptual learning and speech intelligibility of hypokinetic dysarthria.” *Conference on Motor Speech*, Savannah, GA.
85. \*Utianski, R., Lansford, K., & **Liss**, J.M. (January 2010). “The effects of topic knowledge on intelligibility and lexical segmentation of hypokinetic and ataxic dysarthria.” *Fourth Annual Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ
86. \*Lansford, K., Caviness, J.N., Utianski, R., **Liss**, J.M., & Lotto, A.J. (January 2010). “Effects of speech intelligibility on the P1-N1-P2 complex: A preliminary analysis.” *Fourth Annual Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ
87. \*Choe, Y-k., **Liss**, J.M., Lotto, A.J., Azuma, T. & Mathy, P. (November 2009). “Individual differences in speech perception.” *American Speech, Language, and Hearing Association Convention*, New Orleans, LA.
88. **Liss,** J.M., Lotto, A.J., & Lansford, K. (October 2009). “Disordered speech as a testing ground for listener learning and adaptation.”*158th Meeting of the Acoustical Society of America*, San Antonio, TX.
89. \*Lansford, K. & **Liss**, J.M. (October 2009). “Predicting perceptual outcomes from acoustic measures of vowels in dysarthria: A classification analysis.”Poster presentation, *158th Meeting of the Acoustical Society of America*, San Antonio, TX.
90. \*LeGendre, S., Lotto, A.J., **Liss**, J.M. & Utianski, R. (October 2009). “Talker recognition using envelope modulation spectra.” *158th Meeting of the Acoustical Society of America*, San Antonio, TX.
91. **Liss**, J.M., Spitzer, S., Lansford, K., & Caviness, J.N. (May 2009). “The differential effects of dysarthria type on lexical segmentation*.” 157th Meeting of the Acoustical Society of America,* Portland, OR.
92. \*LeGendre, S., **Liss**, J.M., & Lotto, A.J. (May 2009). “Discriminating dysarthria type and predicting intelligibility from envelope modulation spectra.” *157th Meeting of the Acoustical Society of America*, Portland, OR.
93. **Liss**, J.M., Spitzer, S., Dorman, M., Spahr, T., & Lansford, K. (January 2009). “The Role of F0 in Lexical Segmentation by Listeners with Cochlear Implants and in Simulations.” *Third Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ.
94. **Liss***,* J.M., White, L, Mattys, S.L, Spitzer, S.M., Lansford, K., Lotto, A. & Caviness, J.N. (January 2009).“Classifying dysarthrias by speech rhythm metrics.” *Third Auditory Cognitive Neuroscience Society Conference,* Tucson, AZ.
95. LeGendre, S., **Liss,** J.M. & Lotto, A.J. (January 2009) “Envelope Modulation Spectra in the Classification of Dysarthric Speech.” *Third Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ.
96. Caviness, J.N., Lotto, A.J., **Liss**, J.M., Lansford, K., Spitzer, S., Kittleson, M., & Caselli, R. (January 2009).“High Density Electroencephalographic Event Related Bandpower as a Biomarker for Disordered Speech Perception.” *Third Auditory Cognitive Neuroscience Society Conference*, Tucson, AZ.
97. White, L., **Liss,** J.M., Mattys, S.L, Lansford, K., Lotto, A.J., Spitzer, S., & Caviness, J.N. (December 2008). “Distinguishing dysarthrias using rhythm metrics.” Oral presentation at *The British Association of Clinical Linguistics*, University of Reading, Reading, UK.
98. \*Spitzer, S.M., **Liss,** J.M., & Mattys, S.L. (March 2008). “Acoustic Cues to Lexical Segmentation: A Study of Resynthesized Speech.” *Conference on Motor Speech*, Monterey, CA.
99. **Liss,** J.M., Spitzer, S.M, Lansford, K., Choe, Y-k., Kennerley, K. & Caviness, J.N. (March 2008). “Examining intelligibility deficits in ALS and Huntington’s disease.” *Conference on Motor Speech*, Monterey CA.
100. \*Herf, S., **Liss**, J.M., Spahr, A. & Dorman, M. (July 2008). “The use of fundamental frequency information by cochlear implant patients with residual low-frequency hearing.” *Joint Meeting of the Acoustical Society of America,* Paris, France.
101. Mattys, S. L., Spitzer, S. M., & **Liss,** J. M. (July 2007). “Acoustic cues to lexical segmentation: A study of resynthesized speech.” *Joint meeting of the Psychonomics* *Society and the Experimental Psychology Society*, Edinburgh, Scotland.
102. **Liss**, J.M., White, L. Spitzer, S., Mattys, S., Lansford, K., Choe, Y-k., Kennerley, K., Caviness, J.N. (June 2007). “Quantifying speech rhythm deficits in dysarthria.” *147th Meeting of the Acoustical Society of America*, Salt Lake City, UT
103. \*Lansford, K., Mattys, S., & **Liss**, J.M. (June 2007). “Word recognition in dysarthric speech: Evidence for the time-course hypothesis.” *147th Meeting of the Acoustical Society of America*, Salt Lake City, UT.
104. **Liss**, J.M., White, L., Spitzer, SM, Mattys, SL, Lansford, K., Choe, Y-k., Kennerley, K. & Caviness J. (April 2007). “Speech rhythm deficits in dysarthria.” Poster presented (by L.White) at the *Speech Prosody in Atypical Populations Conference*, University of Reading, UK.
105. Caviness, J.N., **Liss**, J.M., and Parsons, L., Adler, C., Evidente, V. (March 2004). “Analysis of high-frequency EEG-EMG Coherence in mouth movements and speech in PD.” *Conference on Motor Speech*, Albuquerque, NM.
106. **Liss**, J.M., Krein-Jones, K., Lamoureux, A.K., Wszolek, Z., and Caviness, J.N. (March 2004). “Voice characteristics of patients with PPND and their application to presymptomatic detection in at-risk relatives.” *Conference on Motor Speech*, Albuquerque, NM.
107. **Liss**, J.M., Josephs, J., Parsons, L, Adler, C., Caviness, J.N. (March 2004). “A prediction-based analysis of Hypokinetic dysarthria in an off versus on medication state.” *Conference on Motor Speech*, Albuquerque, NM.
108. Caviness, J.N. & **Liss**, J.M. (March 2002). “Analysis of EEG-EMG Coherence in Speech,” *Board of Governors Proceedings*,.
109. **Liss**, J.M. (November 2002). “Listener’s role in the intelligibility of dysarthric speech,” *American Speech, Language, and Hearing Association Convention* Short Course, Atlanta, GA.
110. Zraick, R. & **Liss**, J.M. (November 2002) “Individual listener differences in the perception of nasality” *American Speech, Language, and Hearing Association Convention*, Atlanta, GA.
111. Corbin-Lewis, K. & **Liss**, J.M. (December 2000). “Vowel space in 10 Utah families.” *140th Meeting of the Acoustical Society of America*, Newport Beach, CA.
112. **Liss**, J.M., Spitzer, S.M., Caviness, J.N. & Adler, C. (December 2000). “Perceptual segmentation of connected dysarthric speech: The final report.” *10th Biennial Conference on Motor Speech*, San Antonio, TX.
113. \*Spitzer, S., **Liss**, J.M., Caviness, J.N., Adler, C., & Edwards, B. (February 2000). “An exploration of familiarization effects in the perception of hypokinetic and ataxic dysarthric speech.”*10th Biennial Conference on Motor Speech*, San Antonio, TX.
114. \*Zraick, R., **Liss**, J.M., et al. (November 1998). “Perceptual scaling of synthesized nasal vowels.” *American Speech- Language and Hearing Association Convention*, San Antonio, TX.
115. **Liss**, J.M., Spitzer, S., Caviness, J.N., Adler, C., & Edwards, B. (July 1998). "Lexical boundary errors in the perception of hypokinetic and ataxic speech." *9th Biennial Conference on Motor Speech*, Tucson, AZ.
116. **Liss**, J.M., von Berger, S., Caviness, J.N., Adler, C., & Edwards, B. (November 1996). "Exploration of listener strategies in the perception of hypokinetic dysarthric speech." *Third Joint* *Meeting of the Acoustical Society of America and the Acoustical Society of Japan,* Honolulu, Hawaii.
117. Caviness, J.N. & **Liss**, J.M. (June 1996). "Methodological analysis of different triggering events and artifact contribution in Bereitschaftpotentials before speech." *Fourth International Congress of Movement Disorders*, Vienna, Austria.
118. **Liss**, J.M., von Berger, S.M., Caviness, J.N., Adler, C., Muenter, M. & Edwards, B. (February 1996). "Syllabic stress and lexical boundary decisions in hypokinetic dysarthria." *Eighth Biennial Conference on Motor Speech*, Amelia Island, FL.
119. \*Connaghan, K., **Liss**, J.M, & Sidtis, J.J. (March 1994). "Relational timing in ataxic dysarthria." *Seventh Biennial Conference on Motor Speech,* Sedona, AZ.
120. \*Avery, J. & **Liss**, J.M. (November 1993). "Perceptual/acoustic analysis of less-masculine-sounding male speech.” *American Speech- Language Hearing Association Convention*, Anaheim, CA.
121. \*Sorensen, F., **Liss**, J.M., & Siegel, J. (November 1993). "Videofluoroscopic studies of swallowing disturbances." *American Speech- Language Hearing Association Convention*, Anaheim, CA.
122. **Liss**, J.M. (November 1992). "Prosodic marking in the error-revision of apraxic speakers." Poster presentation. *124th Meeting of the Acoustical Society of America*, New Orleans, LA.
123. \*Tjaden, K. & **Liss**, J.M. (November 1992). "An acoustic/perceptual investigation of a prosody-based treatment strategy." *American Speech- Language Hearing Association Convention*, San Antonio, TX.
124. \*Little, K. & **Liss**, J.M. (April 1992). "The role of listener familiarity in perception of severely dysarthric speech: A perceptual/acoustic investigation." *Sixth Biennial Conference on Motor Speech Disorders*, Boulder, CO.
125. \*Brundage, S.B. & **Liss**, J.M. (November 1991). "Acoustic analysis of vowels produced by young and elderly women in spontaneous speech." *122nd Meeting of the Acoustical Society of America*, Houston, TX.
126. **Liss**, J.M. & Kuehn, D.P. (November 1990). "Sensorimotor control of the velopharyngeal mechanism." Miniseminar. *American Speech- Language Hearing Association Convention*, Seattle, WA.
127. Weismer, G. & **Liss**, J.M. (March 1990). "Acoustic/perceptual taxonomies of speech production deficits in motor speech disorders." *Fifth Biennial Clinical Dysarthria Conference*, San Antonio, TX.
128. **Liss**, J.M. and Weismer, G. (May 1989). "Acoustic characteristics of contrastive stress production in normal geriatric and apraxic speakers.” *117th Meeting of the Acoustical Society of America*, Syracuse, NY.
129. McNeil, M., Tseng, C., Adams, S., Hunter, L., **Liss**, J.M., Odell, K., Rosenbek, J., & Weismer, G. (October 1989). "Perceptual, acoustic, and physiologic analyses of normal, apraxic, conduction aphasic and ataxic dysarthric speech production: Evidence for multilevel impairments within pathologic groups." *Academy of Aphasia*, Santa Fe, NM.

**PATENTS**

**Issued Patents:**

1. Berisha, V., **Liss, J.,** \*Wisler, A., \*Tu, M. (Filed 2017). Speech analysis algorithmic system and method for objective evaluation and/or disease detection. US Patent No. 10,796,715. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
2. Zhong, X., **Liss, J.,** Dorman, M., Yost, W, Berisha, V., (2019). Speech therapeutic devices and methods. US Patent No US 10, 290, 200. Washington, DC: U.S. Patent and Trademark Office. (Licensed)

**Filed Patents:**

1. Berisha, V., Hahn, S. **Liss, J.,** Stegmann, G., Voleti, R. (Filed 2021). Systems and methods for assessing speech, language, and social skills. Under Review. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
2. Berisha, V., Hahn, S. **Liss, J.,** Stegmann, G., Voleti, R. (Filed 2021). Systems and methods for assessing speech, language, and social skills. Under Review. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
3. Berisha, V., Bhandari, S., Hahn, S., **Liss, J**., Stegmann, G. (Filed 2021). Large- scale cross-sectional and longitudinal validation of a digital speech-based measure of cognition. Under Review. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
4. Berisha, V., Hahn, S., **Liss, J.,** Shefner, J., Stegmann, G. (Filed 2020). Estimation of Forced Vital Capacity Using Speech Acoustics in Patients with ALS. Under Review. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
5. Berisha, V., Jones, D., **Liss, J.** (Filed 2020). Objective assessment of speech resulting from congestion or decongestion. Under Review. Washington, DC: U.S. Patent and Trademark Office.
6. Berisha, V., Jones, D., **Liss, J.** (Filed 2020). Objective assessment of speech and respiration changes after smoking cessation. Under Review. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
7. Berisha, V., Hustad, K., Kawabata, K., **Liss, J.,** Mahr, T. (Filed 2019). Tracking articulatory and prosodic development in children. Under Review. Washington, DC: U.S. Patent and Trademark Office. (Licensed)
8. Bates, D., Berisha, V., Jones, D., **Liss, J**., Toh, S. (Filed 2019). Objective assessment of pain for calibration of patient-controlled analgesia devices. Under Review. Washington, DC: U.S. Patent and Trademark Office.

**TEACHING**

**Arizona State University**

|  |  |
| --- | --- |
| Dates Taught | Course Number and Name |
| 1994 – Present | SHS 310: Anatomy and Physiology of the Speech Mechanism |
| 1994 – Present | SHS 512: Medical Aspects of Speech-Language Pathology |
| 1994 – Present | SHS 567: Neural Bases of Communication Disorders |
| 1994 – Present | SHS 576: Motor Speech Disorders and Dysphagia |
| 1994 – Present | SHS 576: Neuromotor Speech Disorders |
| 1994 – Present | SHS 582: Diagnostics in Communication Disorders |
| 1994 – Present | SHS 591: Pharmacological and Surgical Intervention |
| 1994 – Present | SHS 591: Normal and Disordered Aspects of Swallowing in Pediatric and Adult Populations |

**University of Minnesota**

|  |  |
| --- | --- |
| Dates Taught | Course Number and Name |
| 1990 – 1994 | Anatomy and Physiology of the Speech and Hearing Mechanism |
| 1990 – 1994 | Motor Speech Disorders |
| 1990 – 1994 | Seminar: Instrumental Study of the Nature and Treatment of Motor Speech Disorders |
| 1990 – 1994 | Seminar: Neural Plasticity: Brain Imaging and Recovery of Function |

**MENTORING**

**Faculty Mentoring:**

|  |  |  |
| --- | --- | --- |
| Name | School & College | Status |
| Ayoub Daliri | Arizona State University, College of Health Solutions | Under current mentorship, Since 2020 |
| Blair Braden | Arizona State University, College of Health Solutions | Under current mentorship, Since 2020 |
| Denise Kennedy | Arizona State University, College of Health Solutions | Mentored from 2020 - 2021 |
| Allison Hilger | University of Colorado at Boulder,  College of Arts & Sciences | Clinical Practice Research Institute,  Mentored from 2020 – 2021  Informal mentoring 2021-present |

**Post-Doctoral Students**

|  |  |  |
| --- | --- | --- |
| Herman Ng |  | Start date: December 2023 |
|  |  |  |
| Annalise Fletcher | Fullbright Scholar |  |
| Stephanie Borrie | New Zealand Scholar |  |

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| --- | --- | --- | --- |
| **Current Doctoral Students:** | | | |
| Name | School & College | Status | Expected Graduation Date |
| Emily Tesch | Arizona State University  College of Health Solutions | Current Student (co-chair with Ayoub Daliri) |  |
| Krupa Kotharda | Arizona State University  Engineering | Current Student (co-chair with Visar Berisha) |  |
| Thomas Kaufmann | Arizona State University  College of Health Solutions | Current Student (co-chair with Visar Berisha) |  |
| Kelvin Tran | Arizona State University, College of Health Solutions | Current Student (co-chair with Visar Berisha) | May 2025 |
| Pranav Ambadi | Arizona State University, College of Health Solutions | Current Student (co-chair with Visar Berisha) |  |
| Lingfeng Xi | Arizona State University  Engineering | Current Student, committee member | May 2024 |
| Sean Kinahan | Arizona State University, Computer Science | Current Student, committee member |  |
| Manuela Velez Galindo | Arizona State University,  College of Health Solutions | Current Student, committee member |  |
| Yan Xiong | Arizona State University,  Engineering | Current Student, committee member |  |
| Prad Kadambi | Arizona State University,  Engineering | Current Student, committee member |  |
| Alexis Busicano | Arizona State University, College of Health Solutions | Current Student  Committee member |  |

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| --- | --- | --- | --- |
| **Former Doctoral Students:** | | | |
| Name | School | Status/ Post-Grad Work | Relation/ Date |
| Camille Wynn | Utah State University | Graduated, University of Houston Assist. Prof 2023. | Committee Member |
| Rohit Voleti | Arizona State University, College of Engineering | Co-chair with Visar Berisha | May 2022 |
| Sara Ching Chao | Arizona State University, College of Health Solutions | Committee member | May 2023 |
|  |  |  |  |
| Jianwei Zhang | Arizona State University, College of Health Solutions | Committee member | May 2023 |
| Zoe Swan | Arizona State University, College of Health Solutions | Committee member | December 2022 |
| Kari Lein | Arizona State University | Examining speech production in children with cleft palate with or without cleft lip: An investigation of characteristics related to speech articulation skills | 2020, Committee Member |
| Yishan Jiao | Arizona State University | Graduated | 2019, Co-Mentor |
| Adriana LaCroix | Arizona State University | Graduated, Assistant Professor Midwestern University | 2019, Committee Member |
| Ashley Boehringer | Arizona State University | Graduated, ALS Linked Mutations in Matrin 3 Alter Protein-Protein Interactions and Impede mRNA Nuclear Export | 2018, Co-Mentor |
| Beatriz Barragan (UR) | Arizona State University | The role of primary motor cortex on second language word recognition, Assistant Professor, California State University-Los Angeles, Assistant Professor, A.T. Still University | 2018, Mentor |
| Ming Tu | Arizona State University | Graduated | 2018, Co-Mentor |
| Karen Gallagher | Arizona State University | “Service-Related Conditions and Higher-Order Cognitive Processing in Military Veteran College Students”  Senior Research Scholar Global Sports Institute, ASU  Assistant Professor, University of Alaska | 2017, Committee Member |
| Davis Henderson (UR) | Arizona State University | “Dynamic Assessment of Narratives among Navajo Head Start Children”  Assistant Professor, University of Mississippi;  Assistant Professor Northern Arizona State University | 2017, Committee Member |
| Alan Wisler | Arizona State University | “Graph-based Estimation of Information Divergence Functions”  Postdoctoral Scholar,  UT-Austin | 2016, Committee Member |
| Steven Sandoval | Arizona State University | Model-driven Time-varying Signal Analysis and its Application to Speech Processing  Assistant Professor, New Mexico State University | 2016, Co-Mentor |
| L. Slovarp | University of Montana | Contrasting Two Prophylactic Dysphagia Interventions for Patients with Head and Neck Cancer Treated with Radiotherapy with or without Adjunctive Chemotherapy  Assistant Professor, University of Montana | 2016, Co-Mentor |
| J. A. Lima | University of Arizona,  Medical College | Towards a sensorimotor approach to adult L2 acquisition  Instructor, Arizona State University | 2016, Committee Member |
| A. Fletcher | Christchurch | Predictors of Treatment Outcome in Dysarthria  Assistant Professor Northern Texas University | 2016, Committee Member |
| A.K. Helms-Tillery | Arizona State University | Individual Differences in the Perceptual Learning of Degraded Speech: Implications for Cochlear Implant Aural Rehabilitation  Clinical Assistant Professor, Arizona State University | 2015, Mentor |
| Martina Schaefer | Christchurch | The interaction between speech perception and speech production: implications for speakers with dysarthria  Adjunct Lecturer, University of Canterbury | 2014, Co-Mentor |
| Rene Utianski | Arizona State University | “Understanding the Processing of Degraded Speech: Electroencephalographic Measures as a Surrogate for Recovery from Concussion” | 2014, Mentor |
| Kaitlin Lansford | Arizona State University | Acoustics and Perception of Vowels  Assistant Professor, Florida State University | 2012, Mentor |
| Stephanie Borrie | Christchurch | Perceptual Learning of Dysarthric Speech  Associate Professor, Utah State University | 2011, Mentor |
| Yu-kyong Choe | Arizona State University | Individual differences in understanding speech  Associate Professor with tenure, University of Massachusett Amherst | 2008, Co-Mentor |
| S. Spitzer. | Arizona State University | Contributions of prosodic variation to lexical segmentation in resynthesized speech  Research Assistant Professor | 2002, Mentor |
| Arizona State University | Arizona State University | Effects of mechanical, cold, gustatory, and combined stimulation to the human anterior faucial pillar | 1999, Co-Mentor |
| R. Zraick | Arizona State University | Perceptual scaling of synthesized nasal vowels  Professor and Chair, Department of Communication Disorders and Sciences, Central Florida University | 1998, Mentor |

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| **Master’s Students:**  \**Indicates data was published* | | |
| Name | Thesis | Relation/ Date |
| Travis Seidemann | UA Medical Student Research Project | Mentor |
| Mehdi Foroozgozar |  | Co-mentor with Visar Berisha |
| Maya Khouri |  | 2023, Committee Member |
| Eric Andrade | “Diffusion Tensor Imaging of Parkinson’s Disease Patients and Their Cognitive Assessments” | 2022, Committee Member |
| Michal Saxon | “Characterizing Dysarthric Speech with Transfer Learning” | 2020, Committee Member |
| Marissa Miller | “A Systemic Survey of Cognitive-Communicative Evaluation” | 2019, Mentor |
| Julia Cai | “The neurobiology of audiovisual integration: a voxel-based lesion symptom mapping study” | 2019, Committee Member |
| H. Torres |  | 2016, Mentor |
| C. Delfino | “Glottal Fry in College Aged Females: An Entrainment Phenomenon?” | 2015, Mentor |
| C. Ludwig | “The Impact of Visual Input on the Ability of Bilateral and Bimodal Cochlear Implant Users to Accurately Perceive Words and Phonemes in Experimental Phrases” | 2015, Mentor |
| E. Fall | “Audiovisual Perception of Dysarthric Speech in Older Adults Compared to Younger Adults” | 2014, Mentor |
| D. Berg | “Perception of degraded speech following concussion” | 2013, Mentor |
| C. Hensley | “Effects of mimicry on perceptual learning of dysarthric speech” | 2013, Mentor |
| R. Norton | \*“Perceptual clustering of dysarthric speech” | 2011, Mentor |
| R. Utianski | \*“The effects of topic knowledge on intelligibility and lexical segmentation of hypokinetic and ataxic dysarthria” | 2010, Mentor |
| J. Josephs | “Apomorphine and speech change in Parkinson’s disease | 2002, Mentor |
| W. Jones | \*“Topic cuing and intelligibility in dysarthric speech.” | 2001, Committee Member |
| M. Marshall | “The effect of rate on measures of coarticulation in dysarthria” | 1996, Mentor |
| S. Von Berger | \*“Word-boundary errors in listeners' perception of Parkinson's speech" | 1996, Mentor |
| T. Fukuda. | “Task type and word-retrieval performance in the healthy elderly." | 1994, Mentor |
| S. Stranberg. | “Intelligibility and rate modification in hypokinetic dysarthria." | 1994, Mentor |
| F. Wilson | “Childhood dysarthria and DVD: A case study." | 1994, Mentor |
| L. Brennon | “Developmental verbal dyspraxia." | 1994, Mentor |
| K. Connaghan | “Relational timing in ataxic dysarthria." | 1993, Mentor |
| J. Avery | \*“Perceptual-acoustic analysis of less-masculine-sounding male speech." | 1993, Mentor |
| K. Little (Tjaden) | \*“Listener familiarity in the perception of dysarthric speech." | 1992, Mentor |
| L. van Druten | “The role of the school SLP in treating childhood dysphagia." | 1991, Mentor |

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| --- | --- | --- |
| **Former Undergraduate Student:** | | |
| Name | Relation | Graduation Date |
| Nyah Kshatriya | Committee Member | April 2021 |
| Maya Khouri | Committee Member | April 2021 |
| Brianna McGuffin | Committee Member | April 2020 |
| Jacob Chenicky | Committee Member | April 2020 |
| Megan Taylor | Committee Member | March 2020 |
| Alexandra Aragon | Committee Member | April 2019 |
| Jacob Peplinski | Committee Member | April 2018 |
| Sara Gronewold | Committee Member | Spring 2017 |
| Shivani Palakodaty | Chair | Spring 2017 |
| Jones, H. | Chair | Fall 2011 |
| Padilla, E. | Committee Member | Spring 2011 |
| Hsiung, E. | Committee Member | Spring 2011 |

**SERVICE**

**Service to ASU:**

***Interim Department Chair***

* Department of Speech and Hearing Science 2006, 2007
* Search Committee 1996 – 1998 and 2005 – 2014
* Ph.D. Admissions and Program Committee 2004-2006
* Master’s Admissions and Program Committee 2003, 2004, 2010 – 2014

***Committee Chair***

* Curriculum Committee 2006, 2007, 2010 – 2014
* Personnel & Policy Committee 1996, 1997, 2012 – 2014
* Ad Hoc Standards 1996 – 2000
* Affirmative Action Committee 1996, 1997

***Committee Member***

* Personal & Budget Committee 1998 – 2008
* Tenure & Promotion Committee 1998 – 2014
* Public Relations Committee 2004 – 2006
* Ph.D. Admissions and Program Committee 2006 – 2008
* Master’s Admissions and Program Committee 1998 – 2001, 2004, 2011, 2012
* Interdisciplinary Doctorate Program 1994 – 2005
* College Senate Alternate 1996 – 1998
* Fund Raising Committee 1995 – 2000

***Representative***

* College of liberal Arts and Science Departmental Chairs Conference 1995
* Council of Graduate Programs in Communication Science and Disorders 1995
* College of Liberal Arts and Sciences Action Representative 1994, 1995
* Affirmative Action Representative 2001

***University Committees***

* Member, Neuroscience Planning Group 2011 – 2013
* Member, Executive Committee for College of Health Solutions 2012 – Present
* Member, Search Committee, University Research Physicians 2007
* Member, Council for Research and Creative Activities 1998 – 2002

***College of Liberal Arts and Sciences***

* Chair, Search Committee for Chair of SHS 2012 – 2013
* Mentor, Mentor Program for Junior Faculty 2005 – 2008
* Director, Interdisciplinary Doctoral Program 2002 – 2004
* Representative for Dissertation Defenses, Graduate College 2002 – 2004
* Member, Neuroscience Ph.D. Curriculum Development Committee 2005 – 2007

**External Service:**

***Senior Editor***

* Registered Reports 2022 – Present
* Journal of Speech, Language, and Hearing Research 2022 – Present

***Editor in Chief***

* Journal of Speech, Language, and Hearing Research, Speech Section 2017 – 2019

***Editor***

* Journal of Speech, Language, and Hearing Research 2015, 2016
* American Journal of Speech-Language Pathology, 2005, 2006, 2011, 2014, 2020 – 2022

***Associate Editor***

* American Journal of Speech-Language Pathology 2007 – 2010
* Journal of Speech, Language, and Hearing Research 2000 – 2002, 2012 – 2015

***Volume Editor***

* Journal of Medical Speech-Language Pathology 2008

***Guest Associate***

* Journal of Speech, Language, and Hearing Research 2006 – 2011

***Guest Editor***

* Language, Speech, and Hearing Services in the Schools
* American Journal of Speech-Language Pathology 2021-2022

***Grant Reviewer***

* National institutes of Health 2021 – Present
  + Chair: Study Section NIH, NIDCD, MFSR,2019 – 2021
  + Study Section NIH, NIDCD, MFSR, R01; K- and F- series; R21/R31 2002 – 2021
  + Ad hoc reviewer ZDC1 SRB, R03, Center Grant 2018
  + CSR Anonymization Study
* Arizona State University, Knowledge Enterprise Development
  + Various internal proposals 2017 – Present
* ASHFoundation Research-Practitioner Collaboration Grant 2020
* American Institute of Biological Science, QED Program 2018
* National Science Foundation, STTR 2015
* VA Rehabilitation Research and Development, SPIRE Pilot Awards, 2002 and 2014
* ASHA, Advancing Academic Research Career Award 2010, 2011, and 2013
* FAS Marie Curie International Postdoctoral Programme, Reviewer Postdoctoral Program, 2010

***Scholarly Reviewer***

*Editorial Consultant/Reviewer*

|  |  |
| --- | --- |
| Journal of the Acoustical Society of America | 1994 - present |
| Journal of Speech and Hearing Research | 1990 - present |
| American Journal of Speech Language Pathology | 1993 - present |
| Clinical Linguistics and Phonetics | 1994 - present |
| Journal of Medical Speech Language Pathology | 1998 - present |
| Annals of Otology, Rhinology & Laryngology | 1995 - present |
| Journal of Communication Disorders | 2006 - present |
| Language and Linguistics | 2009 - present |
| Ear & Hearing | 2010 - present |
| Neuropsychologia | 2010 - present |
| International Congress of Phonetic Sciences  Exploration of Medicine  Cleft Lip and Palate  Nature NPJ Digital Medicine  Brain Sciences | 2022 - present  2022 - present  2022 - present  2022 - present  2022 - present |

***International Journals***

|  |  |
| --- | --- |
| Folio Phoniatrica et Logopaedica | 1996 - present |
| International Journal of Language & Communication Disorders | 2010 - present |
| Journal of International Neuroscience | 2010 - present |
| Speech Communication | 2010 - present |
| Aphasiology | 2011 - present |
| EURASIP Journal on Audio, Speech, and Music Processing | 2011 - present |

**RESEARCH AND SCHOLARSHIP**

**FUNDED:**

**Title:** Speech Biomarkers for Cognitive Decline

**Sponsor:** John and Tami Marick Foundation

**mPI:** Visar Berisha, Julie Liss

**Total Award Value:** $549,878

**Performance Period:** 6/1/2022 – 5/31/2025

**Title:** R21: The effects of telepractice technology on dysarthric speech evaluation **Sponsor:** National Institutes of Health  
**mPI:** Julie Liss & Visar Berisha (mPI proposal)

**Total Award Value:** $413,546  
**Performance Period:** 6/1/2021 - 5/31/2023

**Title:** Perception of Dysarthric Speech: An Objective Model of Dysarthric Speech Evaluation with Actionable Outcomes

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services

**mPI:** Julie Liss & Visar Berisha  
**Total Award Value:** $1,751,505  
**Performance Period:** 02/15/2017 – 07/31/2023

**Title:** Improving Communication Outcomes in children with cleft palate in rural India

**Sponsor:** HHS: National Institutes of Health (NIH)

**PI**: Scherer, N

**CoI**: Liss, J., & Berisha, V.

**Total Award Value**: $1,241,964.00

**Performance Period**: 9/18/23 - 8/31/25

### Title: Validating an objective assessment of speech outcomes of children with cleft palate pre and post-secondary surgery

### Sponsor: HHS: National Institutes of Health (NIH)

**PI:** Scherer, N.

**CoI: Liss, J.** & Berisha, V.

**Total Award Value**: $370,187.00

**Performance Period**: 9/1/22 → 8/31/24

### Title: Quantifying articulatory performance in children with dysarthria: Development of an automated tool for clinical use

**CoI**: Berisha, V. & Liss, J.

**Sponsor:** HHS: National Institutes of Health (NIH)

**Total Award Amount:** $1,245,866.00

**Performance Period:** 5/1/22 → 4/30/27

PRIOR AWARDS:

**Title:** Changes in voice quality over time for Advanced Bionics SSD-CI Patients

**Sponsor:** Advanced Bionics Corporation

**PI:** Julie Liss  
**Total Award Value:** $12,500  
**Performance Period:** 01/22/2020 – 10/30/2021

**Title:** Editorship of the Speech section of the Journal of Speech-Language and Hearing Research

**Sponsor:** American Speech-Language-Hearing Foundation (ASH Foundation)

**PI:** Julie Liss  
**Total Award Value:** $27,000  
**Performance Period:** 01/15/2016 – 12/31/2016

**Title:** A web-based platform for cross-linguistic research in dysarthric speech

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services

**PI:** Julie Liss  
**Total Award Value:** $358,631  
**Performance Period:** 01/01/2015 – 12/31/2018

**Title:** Quantitative Measures of Intelligibility of Dysarthric Speech

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services

**PI:** Julie Liss  
**Total Award Value:** $392,031  
**Performance Period:** 08/01/2012 – 07/31/2015

**Title:** Perceptual training for the management of neurological speech disorders

**Sponsor:** Neurological Foundation of New Zealand  
**PI:** Julie Liss, Stephanie Borrie  
**Total Award Value:** $100,137  
**Performance Period:** 03/15/2012 – 03/14/2014

**Title:** Frontal-Temporal Activation Patterns as a Biomarker for Concussion and Surrogate for Recovery Development of an EEG Metric

**Sponsor:** Arizona State University – Mayo Seed Grant  
**PI:** Julie Liss  
**Total Award Value:** $34,872  
**Performance Period:** 01/01/2012 – 09/30/2014

**Title:** Framework for a perceptually driven taxonomy of dysarthric speech

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services  
**PI:** Julie Liss  
**Total Award Value:** $31,1100  
**Performance Period:** 05/01/2011 – 04/30/2012

**Title:** Perception of Dysarthric Speech

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services  
**PI:** Julie Liss  
**Total Award Value:** $1,609,886  
**Performance Period:** 07/01/2020 – 06/30/2016

**Title:** Perception of Dysarthric Speech

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services  
**PI:** Julie Liss  
**Total Award Value:** $1,482,363  
**Performance Period:** 07/01/2004 – 06/30/2010

**Title:** Perceptual Segmentation of Connected Dysarthric Speech

**Sponsor:** National Institutes of Health – U.S. Department of Health and Human Services  
**PI:** Julie Liss  
**Total Award Value:** $513,165  
**Performance Period:** 09/01/1994 – 08/31/2000

**Training and Training-Related Awards:**

1. Wynn, C NIH Predoctoral Traineeship (NIH, F31) Borrie (Sponsor) (2021) **Liss** (mentor)
2. Borrie, S.A. (Principal Investigator) and **Liss,** J.M. (Mentor). “Perceptual training for the management of neurological speech disorders.” Neurological Foundation of New Zealand, 03/01/12–03/01/14 (Total Award $122,000).
3. **Liss,** J.M. & Slovarp, L. **Research Mentoring-Pair Travel Award Program** to attend the 23rd Annual Research Symposium, co-sponsored by ASHA and the NIDCD (Topic: The Genetic Basis of Speech, Language, Reading, Learning, and Memory.), Fall 2013.
4. **Liss,** J.M. (Sponsor). Neurological Foundation of New Zealand, Philip Wrightson Postdoctoral Fellowship: S. Borrie 03/01/12–03/01/14 (Total Award $122,000).
5. **Liss,** J.M. & Utianski, R.L. **Research Mentoring-Pair Travel Award Program** to attend the 21st Annual Research Symposium, co-sponsored by ASHA and the NIDCD (Topic: Neurological Bases of Auditory and Speech Perception), Fall 2011.
6. **Liss,** J.M. (Associate Investigatorwith PI Megan McAuliffe, AI Greg O’Beirne). “Sensorimotor adaptation to feedback perturbations in dysarthria.” NZILBB & Dept. of Communication Disorders, Internal Award. 2010.
7. **Liss,** J.M.(Sponsor). **NIH Predoctoral Traineeship** (NIH, F31): Kaitlin Lansford, 2010.

**Prior Mayo Foundation Awards:**

1. **Title: High-density** electroencephalographic (EEG) event- related bandpower as a biomarker for disordered speech perception

**Sponsor:** Mayo Clinic Arizona Research Committee  
 **PI:** Dr. John Caviness (PI), Julie Liss (Co-Investigator)

**Total Award Value:** $70,000  
 **Performance Period:** 04 2007 – 12/2009

1. **Title:** Correlative Study of the Phenotype, Genotype, Electrophysiology, and Speech of Patients with ‘Lubag’ and their Asymptomatic At- Risk Relatives

**Sponsor:** Mayo Clinic Arizona Research Committee, IRB 1169-02  
 **PI:** Evidente, V. & Julie Liss (Co-Principal Investigators)

**Total Award Value:** N/A  
 **Performance Period:** 01/2003

1. **Title:** Analysis of EEG- EMG Coherence in Speech.

**Sponsor:** Mayo Clinic- Scottsdale, IRB 630-99  
**PI:** Caviness, J.N. & Julie Liss (Co-Principal Investigators)

**Total Award Value:** $250,00  
**Performance Period:** 03/2002

1. **Title:** Electrophysiologic and acoustical evaluation of pallido- ponto- nigral degeneration.

**Sponsor:** Mayo Clinic- Scottsdale, IRB 873-02  
**PI:** Caviness, J.N. & Julie Liss (Co-Principal Investigators

**Total Award Value:** $10,300  
**Performance Period:** 03/2000

**Prior Intramural Awards:**

1. Dorman, M & **Liss,** J.M. (Co- Investigators). “Computer enhanced learning in speech and hearing science.” College of Liberal Arts and Sciences, Arizona State University. Project duration: 1996-1997. *Amount: $6,600.*
2. Dorman, M & **Liss,** J.M. (Co- Investigators). “Computer enhanced learning in speech and hearing science.” College of Liberal Arts and Sciences, Arizona State University. Project duration: 1995-1996. *Amount: $6,195.*
3. **Liss,** J.M. (Principal Investigator). “Acoustic determinants of prosodic disturbance in motor speech disorders.” Grant- in- Aid, University of Minnesota. Awarded 12/1991. *Amount: $11,000.*
4. **Liss,** J.M. (Principal Investigator). “Writing-to-Learn in Anatomy and Physiology of the Speech and Hearing Mechanisms.” Center for Interdisciplinary Studies in Writing, University of Minnesota. Project duration: 09/1991-07/1992. *Amount: $9,082.*
5. **Liss,** J.M. (Principal Investigator). “Acoustic/ perceptual effects of slowing and stress on speech production.” Graduate School Faculty Summer Research Fellowship, University of Minnesota. Awarded Summer 1991. *Amount: $4,500.*
6. **Liss,** J.M. (Principal Investigator). “Acoustic/ perceptual characterization of select motor speech disorders.” Grant- in- Aid, University of Minnesota, Project duration: 12/1990- 06/1991. *Amount: $10,544.*