

# **MILI KURUVILLA-DUGDALE**

DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS  
UNIVERSITY OF IOWA  
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## **EDUCATION**

### **Post-doctoral Fellowship (Speech Physiology), May 2013**

University of Nebraska-Lincoln, Nebraska, United States  
Mentor: Dr. Jordan Green

### **PhD (Speech Pathology), July 2007**

The University of Queensland, Brisbane, Queensland, Australia  
Dissertation: Articulatory dynamics in talkers with traumatic brain injury  
Advisors: Drs. Bruce Murdoch and Justine Goozée

### **M.Sc. (Speech, Language, and Hearing), June 2000**

Mangalore University, Mangalore, Karnataka, India  
Thesis: Cry analysis – A spectrographic study of infants with hyperbilirubinemia  
Advisor: Dr. Prathibha Karanth

### **B.Sc. (Speech and Hearing), June 1998**

Mysore University, Mysore, Karnataka, India

## **WORK EXPERIENCE**

### **University of Iowa, (August 2023 – present)**

Associate Professor, Director of Speech Perception and Kinematics Lab

### **University of Missouri-Columbia, (August 2013 – July 2023)**

Associate Professor, Director of Neurogenic Communication Disorders Lab  
Assistant Professor, Director of Neurogenic Communication Disorders Lab

### **University of Nebraska Medical Center, (August 2010 – May 2013)**

Post-doctoral Fellow, Neurogenetic Communication Disorders Consortium

### **University of Nebraska-Lincoln, (August 2008 – August 2010)**

Post-doctoral Fellow, Speech Production Lab

### **University of Queensland, (July 2007 – July 2008)**

Research Officer, Motor Speech Research Unit

## **HONORS & AWARDS**

- 2023 American Speech-Language-Hearing Association (ASHA) Research Mentoring-Pair Travel Award
- 2023 Invited Mentor, ASHA Pathways Program
- 2020 Outstanding Undergraduate Research Mentor of the Year Award, MU Office of Undergraduate Education
- 2018 Lewis and Clark Discovery, Early Career Award, MU School of Health Professions
- 2018 Invited Participant to the ASHFoundation Grant Review and Reviewer Training
- 2018 Selected for the National Institutes of Health (NIH) Early Career Reviewer program
- 2015 Selected to attend Lessons for Success, National Institute on Deafness and Other Communication Disorders (NIDCD) and ASHA
- 2015 Vice-Chancellor's Research Facilitation Award, University of Missouri
- 2015 Selected for ASHA Advancing Academic Research Careers program
- 2012 Selected to attend ASHA Research Mentoring Pathways program

## RESEARCH PUBLICATIONS

### Peer-Reviewed Publications

Stipancic, K., Whelan, B.M., Zhao, Y., Laur, L., & **Kuruvilla-Dugdale, M.** (2023). *Tipping the scales: Indiscriminate use of interval scales to rate diverse dysarthric features*. Manuscript submitted for publication.

Stipancic, K., Golzy, M., Zhao, Y., Pinkerton, L., Rohl, A., & **Kuruvilla-Dugdale, M.** (in press). Improving perceptual speech ratings: The effects of auditory training on judgments of dysarthric speech. *Journal of Speech, Language, and Hearing Research*.

**Kuruvilla-Dugdale, M.**, & Mefferd, A. (2022). Articulatory performance in dysarthria: Using a data-driven approach to estimate articulatory demands and deficits. *Brain Sciences*, 12(10), 1409-1428.

<sup>1</sup>Kim, D., **Kuruvilla-Dugdale, M.**, Riesthal, M., Robin, J., Bagnato, F., & Mefferd, A. (2021). Articulatory correlates of stress pattern disturbances in talkers with dysarthria. *Journal of Speech, Language, and Hearing Research*, 64(6S), 2287-2300.

**Kuruvilla-Dugdale, M.**, Salazar, M., Zhang, A., & Mefferd, A. (2020). Detection of articulatory deficits in Parkinson's disease: Can systematic manipulations of phonetic complexity help? *Journal of Speech, Language, and Hearing Research*, 63(7), 2084-2098.

**Kuruvilla-Dugdale, M.**, Dietrich, M., McKinley, J., & Deroche, C. (2020). An exploratory model of speech intelligibility in older adults using phonatory and articulatory subsystem measures. *Journal of Communication Disorders*. Advance online publication. doi: 10.1016/j.jcomdis.2020.105995

Zhao, Y., **Kuruvilla-Dugdale, M.**, & Song, M. (2019). Voice conversion for individuals with ALS. *IEEE Journal of Biomedical and Health Informatics*. Advance online publication. doi: 10.1109/JBHI.2019.2961844

**Kuruvilla-Dugdale, M.**, Threlkeld, K., Salazar, M., Nolan, G., & Heidrick, L. (2019). A comparative study of auditory-perceptual speech measures for the early detection of mild speech impairments. *Seminars in Speech and Language*. 40(5), 394-406.

Zhao, Y., **Kuruvilla-Dugdale, M.**, & Song, M. (2018). Structured sparse spectral transforms and structural measures for voice conversion. *IEEE Transactions on Audio, Speech and Language Processing*, 26(12), 2267 – 2276.

**Kuruvilla-Dugdale, M.**, Custer, C., Heidrick, L., Barohn, R., & Govindarajan, R. (2018). A phonetic complexity-based approach for intelligibility and articulatory precision testing: A preliminary study on talkers with amyotrophic lateral sclerosis. *Journal of Speech, Language, and Hearing Research*, 61(9), 2205-2214.

**Kuruvilla-Dugdale, M.**, & Mefferd, A. (2017). Spatiotemporal movement variability in ALS: Speaking rate effects on tongue, lower lip, and jaw motor control. *Journal of Communication Disorders*, 67, 22-34.

**Kuruvilla-Dugdale, M.**, & Chuquilin-Arista, M. (2017). An investigation of clear speech effects on articulatory kinematics in talkers with ALS. *Clinical Linguistics & Phonetics*, 31(10), 725-742.

Wong, M.N., **Kuruvilla-Dugdale, M.**, & Ng, M.L. (2016). Differential effects of increased loudness on tongue kinematics in individuals with PD: Analyses of two cases. *Speech, Language and Hearing*, 20(1), 49-56.

**Kuruvilla-Dugdale, M.** & Goozée, J.V. (2016). Effect of speech loudness manipulations on articulatory dynamics in severe traumatic brain injury. *Speech, Language and Hearing*, 16(2), 76-91.

**Kuruvilla, M.S.**, Green, J.R., Ayaz, H., & Murman, D. (2013). Neural correlates of cognitive decline in ALS: An fNIRS study of the prefrontal cortex. *Cognitive Neuroscience* 4(2), 115-121.

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<sup>1</sup> Student authors are underlined

## Peer-Reviewed Publications

Green, J.R., Yunusova, Y., **Kuruvilla, M.S.**, Wang, J., & Zinman, L. (2013). Bulbar motor assessment in ALS: Challenges and future directions. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 14(7-8), 494-500.

**Kuruvilla, M.S.**, Murdoch, B.E., & Goozée, J.V. (2012). A kinematic investigation of speaking rate change after traumatic brain injury (TBI). *Journal of Medical Speech-Language Pathology*, 20(3), 9–18.

**Kuruvilla, M.S.**, Green, J.R., Yunusova, Y., & Hanford, K. (2012). Spatiotemporal coupling of the tongue in amyotrophic lateral sclerosis. *Journal of Speech, Language, and Hearing Research*, 55, 1897-1909.

Green, J., Yunusova, Y., Pattee, G., Zinman, L., **Kuruvilla, M.**, Wang, J., & Falikowski, M. (2012). Bulbar motor deterioration in ALS. *Neurology*, 78, P04-154.

**Kuruvilla, M.S.**, Murdoch, B.E., & Goozée, J.V. (2008). Electropalatographic (EPG) assessment of tongue-to-palate contacts in dysarthric speakers following TBI. *Clinical Linguistics and Phonetics*, 22(9), 703-725.

**Kuruvilla, M.S.**, Murdoch, B.E., & Goozée, J.V. (2008). Case discussions of variations in perceptual and articulatory kinematic measures amongst dysarthric speakers following mild and severe traumatic brain injury. *Journal of Medical Speech-Language Pathology*, 16(3), 123-141.

**Kuruvilla, M.S.**, Murdoch, B.E., & Goozée, J.V. (2007). Electromagnetic articulography assessment of articulatory function in adults with dysarthria following traumatic brain injury. *Brain Injury*, 21(6), 601-613.

Bartle, C.J., Goozée, J. V., Scott, D., Murdoch, B. E., & **Kuruvilla, M. S.** (2006). EMA assessment of tongue-jaw co-ordination during speech in dysarthria following traumatic brain injury. *Brain Injury*, 20(5), 529-545.

## Refereed Conference Proceedings

Zhao, Y., Song, M., **Kuruvilla-Dugdale, M.**, Golzy, M., & Zhao, T. (2023). *Dysarthria severity appropriate adaptation strategies for personalizing TTS voices*. Manuscript submitted for publication.

**Kuruvilla-Dugdale, M.** (2023). Advancing the assessment of progressive dysarthria. *Proceedings of International Conference on Communication Disorders and Audiological Practices*.

Zhao, Y., Song, M., Yue, Y., & **Kuruvilla-Dugdale, M.** (2021, July). Personalizing TTS Voices for Progressive Dysarthria. In *2021 IEEE EMBS International Conference on Biomedical and Health Informatics* (pp. 1-4).

Wang, Y., Gao, K., Zhao, Y., **Kuruvilla-Dugdale, M.**, Lever, T., & Bunyak, F. (2019). DeepDDK: A deep learning based oral diadochokinesis analysis software. *Proceedings of IEEE International Conference on Biomedical and Health Informatics*. Advance online publication. doi: 10.1109/BHI.2019.8834506

**Kuruvilla, M.S.**, Murdoch, B.E., Goozée, J. V., & Darnell, R.E. (2003). Effects of rate on EMA-derived kinematic parameters during syllable and sentence productions. In M.J. Sole, D. Recasens and J. Romero, *Proceedings of the 15th International Congress of Phonetic Sciences* (pp. 3125-3127). Barcelona, Spain: Casual Productions.

## Manuscripts in Preparation

**Kuruvilla-Dugdale, M.**, & Mefferd, A. (2023). *Spatiotemporal Coupling of the Jaw and Lower Lip: Comparing Parkinson's Disease and Amyotrophic Lateral Sclerosis*. Manuscript in preparation.

## PATENTS & SOFTWARE DISCLOSURES

Lever, T, Bunyak, F, **Kuruvilla-Dugdale, M**, Zhao, Y, inventors. 2021. Quantification of bulbar function. U.S. 10959661, filed April 5, 2018, and issued March 30, 2021.

Lever, T, Bunyak, F, **Kuruvilla-Dugdale, M**, Zhao, Y, inventors. 2017. Detecting and monitoring bulbar dysfunction. U.S. Provisional Patent Application 62/481, filed April 5, 2017.

Lever, T, Bunyak, F, **Kuruvilla-Dugdale, M**, Zhao, Y, inventors. 2016. Automated oral motor skills assessment software app. MU Software Disclosure Application 17UMC-CR004, filed November 30, 2016.

## **RESEARCH GRANTS**

### **International Research Grants: Awarded**

All India Institute of Speech and Hearing Research Board  
Spatiotemporal stability of articulatory movements in healthy older adults  
Budget: Rs.10,00,000  
Role: Co-Principal Investigator

06/01/2023-05/31/2025

### **External Research Grants: Awarded**

NIH-NIDCD R21  
Generating Personalized Synthetic Speech for Progressive Dysarthria Using Severity-Appropriate Adaptation Strategies for Neural Text-to-Speech and Voice Conversion  
Budget: \$411,627  
Role: PI

07/01/2022 – 07/14/2024

### **External Research Grants: Under Review**

NIH-NIA K01  
Remote monitoring using commercially available activity trackers and computer vision provides a holistic, low-cost assessment of Parkinson's disease symptoms  
Role: Advisory Board Member

NIH-NIDCD R25  
Research Initiative for Science Education in Communication Sciences and Disorders (RISE-CSD)  
Budget: \$1,326,096  
Role: Principal Investigator (PI)

12/31/2024 – 11/30/2029

### **External Research Grants: Completed**

1 R15 DCO16383-01 NIH-NIDCD  
A systematic investigation of phonetic complexity effects on articulatory motor performance in progressive dysarthria  
Budget: \$427,189  
Role: PI

07/01/2017 – 07/14/2022

Major Goal: Improve fundamental knowledge about articulatory motor performance in people with ALS, to develop more sensitive assessments for progressive speech loss, which may lead to the improved timing of speech therapies.

ASHA Advancing Academic Research Careers Award  
Mentorship in an early research career  
Budget: \$5,000  
Role: PI/Mentee

08/07/2015 – 01/31/2017

Mentor, American Speech-Language-Hearing Association Students Preparing for Academic and Research Careers (SPARC) Award, 2016-2017, Applicant: Abby Isabelle.

Mentor, American Speech-Language-Hearing Association Students Preparing for Academic and Research Careers (SPARC) Award, 2016-2017, Applicant: Jacob McKinley, Co-mentor: Maria Dietrich (University of Missouri).

### **Internal Research Grants: Completed**

Spinal Cord Injury/Disease Research Program (SCIDRP)<sup>2</sup>  
An innovative approach to constructing personalized voices using voice conversion and text-to-speech technologies  
Budget: \$250,000  
Role: PI

12/01/2018 – 11/30/2022

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<sup>2</sup> SCIDRP is a state-wide Missouri funding program administered by the University of Missouri System

## Internal Research Grants: Completed

Coulter Translational Partnership Program <sup>3</sup> A software system for early detection and monitoring of tongue-related speech and swallowing dysfunction Budget: \$104,000 Role: PI	07/01/2017 – 06/30/2018
University of Missouri, Research Council Grant Voice conversion for individuals with ALS Budget: \$10,000 Role: PI	02/28/2016 – 01/31/2017
Mizzou Advantage, UG Research Team Early detection of dysarthria and dysphagia in ALS and Parkinson's disease Budget: \$16,000 Role: Co-PI	12/01/2015 – 11/30/2017
School of Health Professions Catalyst Award Working memory deficits in ALS Budget: \$5,500 Role: PI	06/30/2014 – 05/31/2015
School of Health Professions Faculty Scholarship Facilitation Award Budget: \$2,500 Role: PI	04/30/2016 – 03/31/2018
School of Health Professions Research Facilitation Award Budget: \$500 Role: PI	02/30/2014 – 06/30/2014
School of Health Professions Teaching Facilitation Award Budget: \$1,000 Role: PI	12/31/2014 – 06/30/2015

## RESEARCH PRESENTATIONS

### Invited Talks

**Kuruvilla-Dugdale, M.** (2024, March). *State of speech assessment for progressive neurodegenerative diseases*. Neurology Grand Rounds, University of Iowa Hospitals and Clinics, Iowa City, IA, United States.

**Kuruvilla-Dugdale, M.,** Stipancic, K., & Fletcher, A, (2023, November). *Capturing more than just intelligibility*. American Speech-Language-Hearing Association Convention, San Diego, CA, United States.

**Kuruvilla-Dugdale, M.** (2022, December). *Assessment of progressive dysarthria: Current challenges and future directions*. New York University CSD Colloquium Series, New York, NY, United States.

**Kuruvilla-Dugdale, M.** (2022, September). *Advancing the assessment of progressive dysarthria*. International Conference on Communication Disorders and Audiological Practices, Trivandrum, Kerala, India.

**Kuruvilla-Dugdale, M.** (2022, August). *Considerations for inter-institutional international research*. All India Institute of Speech and Hearing, Mysore, Karnataka, India.

**Kuruvilla-Dugdale, M.** (2022, August). *Electromagnetic articulography: Best practices for data collection and analysis*. All India Institute of Speech and Hearing, Mysore, Karnataka, India.

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<sup>3</sup> Joint funding from the Coulter Foundation and University of Missouri

## Refereed Conference Presentations

**Kuruvilla-Dugdale, M.,** & Mefferd, A. (2024, May). *Spatiotemporal coupling of the jaw and lower lip: Comparing talkers with Parkinson's disease and amyotrophic lateral sclerosis* [Poster session]. International Seminar on Speech Production, Autrans, France.

**Kuruvilla-Dugdale, M.,** Munasinghe, U. T., Crasta, D., Stipancic, K., Anil, A. (2024, May). *Use of natural anchors for improving rater reliability in dysarthria assessment: An exploratory study* [Poster session]. International Seminar on Speech Production, Autrans, France.

**Kuruvilla-Dugdale, M.,** Stipancic, K., Whelan, B.M., Zhao, Y., Rohl, A., Munasinghe, U.T., Crasta, D., Schmitt, L. (2024, February). *Rating dysarthric speech features: Validity and reliability of interval and ratio scales* [Poster session]. Conference on Motor Speech, San Diego, CA, United States.

**Kuruvilla-Dugdale, M.,** Stipancic, K., Golzy, M., Zhao, Y., Rohl, A., Crasta, D., Munasinghe, U.T. (2024, February). *Improving perceptual speech ratings: The effects of auditory training on judgments of dysarthric speech* [Poster session]. Conference on Motor Speech, San Diego, CA, United States.

Stipancic, K., Whelan, B., Zhao, Y., Pinkerton, L., **Kuruvilla-Dugdale, M.** (2023, June). *Tipping the scales: Indiscriminate use of conventional scales to rate diverse dysarthric features* [Poster session]. Boston Speech Motor Control Symposium, Boston, MA, United States.

Stipancic, K., Golzy, M., Whelan, B., Zhao, Y., Pinkerton, L., **Kuruvilla-Dugdale, M.** (2023, June). *Minimally detectable change of visual analog scale speech ratings in dysarthria: Severity, imprecision, monotony, and rate* [Poster session]. Boston Speech Motor Control Symposium, Boston, MA, United States.

Thompson, D., **Kuruvilla-Dugdale, M.,** & Mefferd, A. (2022, February). *Towards disease-specific articulatory impairment profiles: Leveraging stimuli-driven performance demands* [Poster session]. Conference on Motor Speech, Charleston, SC, United States.

**Kuruvilla-Dugdale, M.,** Rong, P., Mefferd, A., Zhao, Y., & Brumberg, J. (2020, November). *New directions of speech assessment and intervention for ALS* [Oral seminar]. Proposal accepted for the American Speech-Language-Hearing Association Convention, San Diego, CA, United States (Convention canceled).

**Kuruvilla-Dugdale, M.,** Rong, P., Wisler, A., & Wang, J. (2020, November). *A novel articulatory-kinematic approach for phonetic complexity classification* [Poster session]. Proposal accepted for the American Speech-Language-Hearing Association Convention, San Diego, CA, United States (Convention canceled).

**Kuruvilla-Dugdale, M.,** Hakenewerth, M., Linderer, A., & Mefferd, A. (2020, February). *Intralingual coupling in Parkinson's disease: Effects of phonetic complexity* [Poster session]. Conference on Motor Speech, Santa Barbara, CA, United States.

Threlkeld, K., Sifford, M., Nolan, G., Heidrick, L., & **Kuruvilla-Dugdale, M.** (2020, February). *Clinical value of auditory-perceptual speech measures for detecting mild speech impairments* [Poster session]. Conference on Motor Speech, Santa Barbara, CA, United States.

Kim, D., **Kuruvilla-Dugdale, M.,** & Mefferd, A. (2020, February). *Articulatory mechanisms of stress pattern disturbances in dysarthria* [Poster session]. Conference on Motor Speech, Santa Barbara, CA, United States.

Kim, D., **Kuruvilla-Dugdale, M.,** & Mefferd, A. (2019, November). *A comparison of stressed and unstressed segment production in talkers with Parkinson's disease and amyotrophic lateral sclerosis* [Technical session]. American Speech-Language-Hearing Association Convention, Orlando, FL, United States.

Salazar, M., **Kuruvilla-Dugdale, M.,** Mefferd, A., & Lisenbee, J. (2018, November). *Phonetic complexity – an important construct for the assessment of progressive dysarthria* [Technical session]. American Speech-Language-Hearing Association Convention, Boston, MA, United States.

**Kuruvilla-Dugdale, M.,** & Mefferd, A. (2018, February). *Effects of phonetic complexity on tongue motor performance in progressive dysarthria* [Poster session]. Conference on Motor Speech, Savannah, GA, United States.

## Refereed Conference Presentations

McKinley, J., **Kuruvilla-Dugdale, M.**, & Dietrich, M. (2018, February). *A multi-subsystem approach to predicting speech intelligibility in older adults* [Poster session]. Conference on Motor Speech, Savannah, GA, United States.

Sadagopan, N., **Kuruvilla-Dugdale, M.**, & MacPherson, M. (2018, February). *Effect of cognitive load on speech motor performance in healthy younger and older adults* [Poster session]. Conference on Motor Speech, Savannah, GA, United States.

McKinley, J., **Kuruvilla-Dugdale, M.**, & Dietrich, M. (2017, November). *A multi-subsystem approach to predicting speech intelligibility in older adults* [Technical session]. American Speech-Language-Hearing Association Convention, Los Angeles, CA, United States.

Henn, E., Thomlinson, W., Muenks, R., McLanahan, M., Kedigh, D., Ehrich, J., July, K., Wang, Y., **Kuruvilla-Dugdale, M.**, Bunyak, F., & Lever, T. (2017, November). *Developing a clinical tool for early detection and monitoring of lingual dysfunction* [Poster session]. American Speech-Language-Hearing Association Convention, Los Angeles, CA, United States.

Mefferd, A., & **Kuruvilla-Dugdale, M.** (2017, June). *Articulatory movement variability in talkers with ALS: Comparisons of clear and slow speech effects* [Poster session]. International Conference on Speech Motor Control, Groningen, Netherlands.

**Kuruvilla-Dugdale, M.** (2016, November). *Influence of linguistic complexity on tongue motor control in talkers with ALS* [Technical session]. American Speech-Language-Hearing Association Convention, Philadelphia, PA, United States.

Isabelle, A. & **Kuruvilla-Dugdale, M.** (2016, November). *An articulatory kinematic study of clear speech in talkers with ALS* [Poster session]. American Speech-Language-Hearing Association Convention, Philadelphia, PA, United States.

Pitt, K., Brumberg, J., Searl, J., & **Kuruvilla-Dugdale, M.**, & Burnison, J. (2016, November). *Inter-institutional, cutting-edge ALS research across the ALS disease course, from motor speech to AAC BC* [Oral Seminar]. American Speech-Language-Hearing Association Convention, Philadelphia, PA, United States.

**Kuruvilla-Dugdale, M.**, & Mefferd, A. (2016, March). *Rate effects on tongue motor control in talkers with ALS* [Poster session]. Conference on Motor Speech, Newport Beach, CA, United States.

**Kuruvilla-Dugdale, M.**, Green, J. R., Hogan, T.P., & Custer, C. (2015, December). *Speech performance in ALS: Influence of speech motor and linguistic complexity* [Poster session]. International ALS/MND Symposium, Orlando, FL, United States.

Wong, M., **Kuruvilla-Dugdale, M.S.**, & Ng, L. (2015, October). *Effects of loud speech on tongue kinematics in dysarthric speakers with Parkinson's disease* [Poster session]. 9<sup>th</sup> Asia Pacific Conference on Speech, Language, and Hearing, Guangzhou, China.

**Kuruvilla, M.S.**, Green, J. R., & Hogan, T.P. (2013, November). *Evidence of verbal working memory deficits in ALS* [Poster session]. American Speech-Language-Hearing Association Convention, Chicago, IL, United States.

**Kuruvilla, M.S.**, Green, J. R., Hogan, T.P., Fernandes, J.A., & Murman, D.L. (2012, December). *Functional near infrared spectroscopy correlates of early cognitive change in ALS* [Poster session]. International ALS/MND Symposium, Chicago, IL, United States.

Green, J.R., Yunusova, Y., Pattee, G., Wang, J., **Kuruvilla, M.S.**, Falikowski, M., & Zinman, L. (2012, December). *Bulbar motor deterioration in ALS* [Technical session]. International ALS/MND Symposium, Chicago, IL, United States.

Yunusova, Y., Green, J. R., Falikowski, M., Gauster, A., **Kuruvilla, M.S.**, Pattee, G., & Zinman, L. (2012, December). *Do rates of decline in the bulbar mechanism predict survival in ALS: A pilot study with measures of velopharyngeal inadequacy?* [Technical session]. International ALS/MND Symposium, Chicago, IL, United States.

## Refereed Conference Presentations

Green, J.R., Yunusova, Y., Pattee, G.L., Zinman, L., **Kuruvilla, M.S.**, Wang, J., & Falikowski, M. (2012, April). *Bulbar motor deterioration in ALS* [Poster session]. American Academy of Neurology, New Orleans, LA, United States.

Wang, J., Green, J.R., Samal, A., Yunusova, Y., & **Kuruvilla, M.S.** (2012, February). *Stage-based deterioration of speech motor performances in early ALS* [Poster session]. Conference on Motor Speech, Santa Rosa, CA, United States.

**Kuruvilla, M.S.**, Green, J. R., Yunusova, Y., Ayaz, H., & Hogan, T.P. (2012, February). *Functional near-infrared spectroscopy correlates of ALS-related speech motor, cognitive, and language deficits* [Poster session]. Conference on Motor Speech, Santa Rosa, CA, United States.

Wilson, E., Green, J. R., Yunusova, Y., & **Kuruvilla, M.S.** (2012, February). *Diagnostic measures of speech loss in persons with ALS: A comparison of non-speech and speech tasks* [Technical session]. Conference on Motor Speech, Santa Rosa, CA, United States.

Davidson, S., Hogan, T.P., **Kuruvilla, M.S.**, Ayaz, H., Srivastava, P., & Green, J.R. (2011, November). *Detecting semantic anomalies: A preliminary study using fNIRS* [Poster session]. American Speech-Language-Hearing Association Annual Convention, San Diego, CA, United States.

**Kuruvilla, M.S.**, Green, J. R., Yunusova, Y., & Ayaz, H. (2011, November). *Cognitive decline in amyotrophic lateral sclerosis: an fNIRS study* [Technical session]. American Speech-Language-Hearing Association Convention, San Diego, CA, United States.

Yunusova, Y., Green, J., **Kuruvilla, M.S.**, Wang, J., Lingham, A., Pattee, G. & Zinman, L. (2010, March). *Behavioural markers of bulbar amyotrophic lateral sclerosis* [Poster session]. Conference on Motor Speech, Savannah, GA, United States.

**Kuruvilla, M.S.**, Green, J. & Yunusova, Y. (2009, November). *Kinematic correlates of speech intelligibility in amyotrophic lateral sclerosis* [Technical session]. American Speech-Language-Hearing Association Convention, New Orleans, LA, United States.

Schulz, G., Theodoros, D., Goozée, J. V., Murdoch, B.E., **Kuruvilla, M. S.**, & Cowles, J. (2008, March). *The impact of the Lee Silverman Voice Treatment (LSVT®) on articulatory dynamics in Parkinson's disease* [Technical session]. Motor Speech Conference, Monterey, CA, United States.

Murdoch, B.E., **Kuruvilla, M.S.** & Goozée, J. V. (2007, August). *An investigation of articulatory dynamics during speech rate manipulations using EMA and EPG* [Technical session]. International Dysarthria Conference, Sheffield, United Kingdom.

**Kuruvilla, M. S.**, Murdoch, B.E. & Goozée, J. V. (2007, July). *Articulatory dynamics in adults with dysarthria following traumatic brain injury (TBI)* [Technical session]. 5<sup>th</sup> Asia Pacific Conference on Speech, Language and Hearing, Brisbane, QLD, Australia.

Mohr, J., Murdoch, B.E., **Kuruvilla, M.S.**, Cahill, L., Theodoros, D. & Delatycki, M (2007, July). *Articulatory dynamics in Friedreich's ataxia: an EMA study* [Technical session]. 5<sup>th</sup> Asia Pacific Conference on Speech, Language and Hearing, Brisbane, QLD, Australia.

**Kuruvilla, M. S.**, Murdoch, B.E. & Goozée, J. V. (2005, September). *Comparison of rate and loudness effects on EPG timing parameters in speakers with dysarthria following traumatic brain injury (TBI)* [Technical session]. 4th International EPG Symposium, Edinburgh, Scotland, United Kingdom.

**Kuruvilla, M. S.**, Murdoch, B.E. & Goozée, J. V. (2005, April). *Electropalatographic findings of dysarthric speech following traumatic brain injury* [Poster session]. Canterbury Conference on Communication Disorders, Christchurch, New Zealand.

Goozée, J. V., Murdoch, B.E. & **Kuruvilla, M. S.** (2004, September). *Assessment of tongue function for speech in individuals with traumatic brain injury: Are measures of tongue strength, endurance, and fine pressure control relevant?* [Technical session]. 7th International Neurotrauma Symposium, Adelaide, SA, Australia.

## Refereed Conference Presentations

**Kuruvilla, M. S.**, Murdoch, B.E. & Goozée, J. V. (2004, August). *Effect of rate change on articulatory kinematic parameters in normal and dysarthric speakers following traumatic brain injury (TBI)* [Technical session]. International Association of Logopedics and Phoniatrics Congress, Brisbane, QLD, Australia.

**Kuruvilla, M. S.**, Murdoch, B.E. & Goozée, J. V. (2004, August). *Variations in loudness and its effect on articulatory kinematic parameters in dysarthria following traumatic brain injury* [Technical session]. International Association of Logopedics and Phoniatrics Congress, Brisbane, QLD, Australia.

Goozée, J. V., **Kuruvilla, M. S.** & Murdoch, B.E. (2003, August). *Effects of rate on EMA-derived kinematic parameters during syllable and sentence productions* [Poster session]. 15th International Conference of Phonetic Sciences, Barcelona, Spain.

## Non-Refereed Conference Presentations

Cukierkorn, D., Meier, G., Crasta, D., & **Kuruvilla-Dugdale, M.** (2023, April). *Using movement range to estimate articulatory demands and dysarthria deficits* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Linneweh, M., Williams, A., & **Kuruvilla-Dugdale, M.** (2023, April). *Speech performance in dysarthria: The impact of lexical factors* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Linneweh, M., Williams, A., Cukierkorn, D., & **Kuruvilla-Dugdale, M.** (2022, November). *Word stimuli-driven performance deficits among talkers with progressive speech disorders* [Poster session]. MU Health Science Research Day, Columbia, MO, United States.

Ervie, O., Montag, G., Jacobsmeier, L., & **Kuruvilla-Dugdale, M.** (2022, November). *Developing an effective training protocol to improve clinical judgments of disordered speech* [Poster session]. MU Health Science Research Day, Columbia, MO, United States.

Threlkeld, K., Golzy, M., & **Kuruvilla-Dugdale, M.** (2021, June). *Can listener training improve the reliability of auditory-perceptual ratings of dysarthric speech?* [Poster session]. Boston University Speech Motor Control Symposium, Boston, MA, United States.

Threlkeld, K., Golzy, M., & **Kuruvilla-Dugdale, M.** (2021, April). *A listener training paradigm for auditory-perceptual ratings of dysarthria* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Michael, M., Fogarty, T., Buie, A., & **Kuruvilla-Dugdale, M.** (2021, April). *A comparative study of articulatory performance among progressive dysarthrias* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Thoenen, M., Batten, R., Travis, E., & **Kuruvilla-Dugdale, M.** (2021, April). *A kinematic study of tongue coupling relations in dysarthria* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Adler, K., Hakenewerth, M., & **Kuruvilla-Dugdale, M.** (2020, April). *A comparative study of articulatory performance among progressive dysarthrias* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States. (Conference cancelled)

Linderer, A., Thompson, D., Sifford, M., & **Kuruvilla-Dugdale, M.** (2020, April). *A kinematic study of tongue coupling relations in dysarthria* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States. (Conference cancelled)

Thompson, D., Adler, K., McDermott, M., & **Kuruvilla-Dugdale, M.** (2019, April). *Improved detection of speech deficits in Parkinson's disease using complex phonetic contexts* [Poster session]. MU Life Sciences Week, Columbia, MO, United States.

## Non-Refereed Conference Presentations

Bauman, K., Threlkeld, K., & Kuruvilla-Dugdale, M. (2019, April). *Clinical assessment of Parkinsonian speech: Auditory-perceptual measures and listener characteristics* [Poster session]. MU Life Sciences Week, Columbia, MO, United States.

McCarthy, B., Kloeppe, A., Gao, K., Wang, Y., Zhao, T., Song, M., Jarombek, A., White, E., Bunyak, F., Zhao, Y., Kuruvilla-Dugdale, M., & Lever, T. (2019, April). *Clinician-interactive speech DDK analysis software* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Salazar, M., Sifford, M., Linderer, A., Bharadwaj, L., Strong, A., Hakenewerth, M., & Kuruvilla-Dugdale, M. (2019, April). *Articulatory motor performance as a function of phonetic complexity* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Threlkeld, K., Rector, L., Schneider, M., Horn, J., Kohnen, K., Kane, M., & Kuruvilla-Dugdale, M. (2019, April). *A comparative study of clinical speech measures for the early identification of Parkinsonian speech* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Sifford, M., Linderer, A., Bharadwaj, L., Strong, A., Hakenewerth, M., Salazar, M., Lisenbee, J., & Kuruvilla-Dugdale, M. (2018, November). *Leveraging stimulus complexity for the early detection of speech decline in Parkinson's disease* [Poster session]. MU Health Science Research Day, Columbia, MO, United States.

Rector, L., Schneider, M., Horn, J., Kohnen, K., Kane, M., Fousek, K., Threlkeld, K., & Kuruvilla-Dugdale, M. (2018, November). *A comparative study of clinical speech measures for the early identification of Parkinsonian speech* [Poster session]. MU Health Science Research Day, Columbia, MO, United States.

Moss, V., Custer, C., Salazar, M., Lisenbee, J., Simon, P., Dent, A., & Kuruvilla-Dugdale, M. (2018, April). *A phonetic complexity-based approach to intelligibility and articulatory precision testing* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Henn, E., Wang, Y., Ehrich, J., Kedigh, D., Song, M., Zhao, T., Kuruvilla-Dugdale, M., Bunyak, F., Zhao, Y., & Lever, T. (2018, April). *Smartphone app for early detection and monitoring of oromotor dysfunction* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Isabelle, A., Harding, H., Terbrock, N., Cameron, A., Nichols, E. & Kuruvilla-Dugdale, M. (2017, April). *Clear speech effects on jaw motor control* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Custer, C., Simon, P., Moss, V., Fousek, K. & Kuruvilla-Dugdale, M. (2017, April). *Word complexity effects on tongue motor control* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

McKinley, J., Dietrich, M., & Kuruvilla-Dugdale, M. (2017, April). *A multi-subsystem approach to predicting speech intelligibility decline in older adults* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Henn, E., Thomlinson, W., Muenks, R., McLanahan, M., Ehrich, J., Kedigh, D., Bunyak, F., He, Z., Kuruvilla-Dugdale, M. & Lever, T. (2017, April). *Developing a clinical tool for early detection of bulbar dysfunction* [Technical session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Terbrock, N., Harding, H., Isabelle, A. & Kuruvilla-Dugdale, M. (2016, November). *Clear speech effects on jaw motor control* [Poster session]. Health Sciences Research Day, University of Missouri, Columbia, MO, United States.

Moss, V., Simon, P., Custer, C. & Kuruvilla-Dugdale, M. (2016, November). *Word complexity effects on tongue motor control* [Poster session]. Health Sciences Research Day, University of Missouri, Columbia, MO, United States.

## **Non-Refereed Conference Presentations**

McKinley, J., Dietrich, M., & **Kuruville-Dugdale, M.** (2016, November). *A multi-subsystem approach to predicting speech intelligibility decline in older adults* [Poster session]. Health Sciences Research Day, University of Missouri, Columbia, MO, United States.

Campbell, D. & **Kuruville-Dugdale, M.** (2016, April). *Dual tasking while speaking: To do or not to do?* [Poster session]. Undergraduate Research Forum, University of Missouri, Columbia, MO, United States.

Isabelle, A. & **Kuruville-Dugdale, M.** (2016, April). *An articulatory kinematic study of clear speech in talkers with ALS* [Poster session]. Undergraduate Research Forum, University of Missouri, Columbia, MO, United States.

Henn, E., Smith, A., Thomlinson, W., Muenks, R., McLanahan, M., Ehrich, J., Wu, P., He, Z., **Kuruville-Dugdale, M.** & Lever, T. (2016, April). *Developing a clinical tool for early detection and monitoring of speech and swallowing deficits* [Poster session]. Undergraduate Research Forum, University of Missouri, Columbia, MO, United States.

Nielson, K., Isabelle, A., Greis, M. & **Kuruville-Dugdale, M.** (2016, April). *An articulatory kinematic study of loud speech in talkers with ALS* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

McKinley, J., Harmata, D., Custer, C. & **Kuruville-Dugdale, M.** (2016, April). *Interaction of language and speech processes in older adults* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Campbell, D. & **Kuruville-Dugdale, M.** (2016, April). *Dual tasking while speaking: To do or not to do?* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

McKinley, J., Dietrich, M., & **Kuruville-Dugdale, M.** (2016, April). *A multi-subsystem approach to predicting speech intelligibility in older adults* [Poster session]. Missouri Speech-Language-Hearing Association Convention, Lake of the Ozarks, MO, United States.

Nielson, K., Isabelle, A., Greis, M. & **Kuruville-Dugdale, M.** (2015, November). *Loudness effects on tongue motor control in talkers with ALS* [Poster session]. Health Sciences Research Day, University of Missouri, Columbia, MO, United States.

Harmata, D., Custer, C., McKinley, J. & **Kuruville-Dugdale, M.** (2015, November). *Impact of linguistic load on tongue motor control in older adults* [Poster session]. Health Sciences Research Day, University of Missouri, Columbia, MO, United States.

Harmata, D. & **Kuruville-Dugdale, M.** (2015, April). *Is working memory affected in patients with amyotrophic lateral sclerosis?* [Poster session]. Missouri Speech and Hearing Convention, Lake of the Ozarks, MO, United States.

Kramer, C. & **Kuruville-Dugdale, M.** (2015, April). *Variability of tongue movements during speech: Does word complexity matter?* [Poster session]. Missouri Speech & Hearing Convention, Lake of the Ozarks, MO, United States.

Egbert, R., **Kuruville, M.S.**, Green, J.R., & Hogan, T.P. (2012, April). *fNIRS-related hemodynamic responses associated with cognitive decline in amyotrophic lateral sclerosis* [Technical session]. LEND Leadership Training, University of Nebraska Medical Center, Omaha, NE, United States.

Gruszczyka, M., **Kuruville, M.S.**, Green, J.R., Hogan, T.P., & Jackson, B. (2012, April). *Decline of tongue force and endurance in amyotrophic lateral sclerosis* [Technical session]. LEND Leadership Training, University of Nebraska Medical Center, Omaha, NE, United States.

Wiegert, R., **Kuruville, M.S.**, Hogan, T.P., Wang, J., & Green, J.R. (2012, April). *Effect of phoneme frequency and age of acquisition on tongue movement variability* [Poster session]. Undergraduate Research Fair, University of Nebraska-Lincoln, Lincoln, NE, United States.

Liesing, P., **Kuruville, M.S.**, & Green, J. R. (2009, April). *Predicting speech intelligibility decline in ALS* [Poster session]. Undergraduate Research Fair, University of Nebraska-Lincoln, Lincoln, NE, United States.

## **TEACHING EXPERIENCE**

### **Undergraduate Required**

Spring 2017 – Fall 2017 SLHS 3210: Anatomy and Physiology of the Speech Mechanism

### **Undergraduate Optional**

Fall 2017 SLHS 4960: Directed Reading in Communication Science and Disorders

Fall 2017 – SLHS 4990: Honors Thesis

Spring 2014 – SLHS 4950: Research Apprenticeship

### **Graduate Required**

Fall 2023 CSD 4115: Structural Disorders

Spring 2022 – CSD 5238: Motor Speech Disorders

Fall 2021 – 2022 SLHS 8240: Cleft Palate/Craniofacial Disorders

Fall 2016 – 2022 SLHS 8085/8300: Neurological Bases of Speech and Language

Spring 2014 – 2023 SLHS 8085/8200: Motor Speech Disorders

Summer 2014 – Fall 2016 SLHS 8430: Augmentative and Alternative Communication

### **Graduate Optional**

Fall 2023 – CSD 7950: Research

Fall 2020 – 2022 SLHS 9050: Research in SLHS

Spring 2020 SLHS 8960: Directed Reading in Speech, Language and Hearing Science

Spring 2018 – 2023 SLHS 8050: Research in Communication Science and Disorders

Fall 2018 – 2022 SLHS 8085 (upper-level graduate credit): Problems in Communication Science and Disorders

Spring 2016 – 2023 SLHS 8090: Research in Communication Science and Disorders

### **Guest Lectures**

Spring 2022 SLHS 4800: Multicultural Considerations in SLHS  
University of Missouri, Columbia  
Primary Instructor: Beth Kelley  
Lecture: *Culturally Responsive Research*

Fall 2021 SLHS 3950: Research Methods in Speech and Language Sciences  
University of Missouri, Columbia  
Primary Instructors: Stacy Wagovich and Roxana Botezatu  
Lecture: *Lab observation*

Spring 2021 HR\_SCI 8442: Health and Rehabilitation Science II  
University of Missouri, Columbia  
Primary Instructor: Stephanie Reid-Arndt  
Lecture: *Interdisciplinary work within health and rehabilitation science*

Spring 2020 SLHS 3950: Research Methods in Speech and Language Sciences  
University of Missouri, Columbia  
Primary Instructor: Roxana Botezatu  
Lecture: *Importance of pilot studies*

## **TEACHING EXPERIENCE**

### **Guest Lectures**

- Fall 2017 – Fall 2022      SLHS 3210: Anatomy and Physiology of the Speech Mechanism  
University of Missouri, Columbia  
Primary Instructors: Roxana Botezatu; Maria Dietrich  
Lecture: *The pharyngeal-oral system*
- Spring 2019                HLTH\_SCI 3900: Introduction to the Research Process and Evidence Base  
University of Missouri, Columbia  
Primary Instructor: Rachel Proffitt  
Lecture: *Research: From conception to completion of a study*
- Fall 2018 –                 SLHS 1000: Introduction to Communication Science and Disorders  
University of Missouri, Columbia  
Primary Instructor: Christi Baker  
Lecture: *Motor speech disorders*
- Fall 2009 – Fall 2010      SLP 853: Neurological Foundations of Speech and Language  
University of Nebraska-Lincoln  
Primary Instructor: Jordan Green  
Lectures: *Basal ganglia; Cerebellum; Cranial nerves; Descending motor pathways; Psychopharmacology; Human communication disorders*

## **STUDENT ADVISING AND MENTORING**

### **Undergraduate Students**

#### Honors Thesis Primary Mentor

Morgan Linneweh, Error vulnerability on kinematic variability: A nonlinear approach, Department of Speech, Language and Hearing Sciences (SLHS), University of Missouri, 2023

Anna Mae Williams, The impact of error vulnerability on intelligibility in dysarthria, SLHS, University of Missouri, 2023

Dylan Thompson, Tongue coupling relations in dysarthria, SLHS, University of Missouri, 2020

Kristina Adler, Articulatory performance among progressive dysarthrias, SLHS, University of Missouri, 2020

Victoria Moss, A phonetic complexity-based approach to intelligibility testing, SLHS, University of Missouri, 2018

#### Awarded Research Opportunities

Gabriella Meier, Discovery Fellow, Department of Health Science, University of Missouri-Columbia, 2022-present

Molly McDermott, Stamps Scholar, Department of Statistics, University of Missouri-Columbia, 2018-2019

Denisha Campbell, McNair Scholar, SLHS, University of Missouri-Columbia, 2015-2016

Diana Harmata, Discovery Fellow, Department of Health Sciences, University of Missouri-Columbia, 2014-2015

### **Graduate Students**

#### Master's Thesis Primary Mentor

Mary Salazar, Articulatory motor performance as a function of phonetic complexity, SLHS, University of Missouri, 2017-2019

## **STUDENT ADVISING AND MENTORING**

### Master's Thesis Primary Mentor

Jacob McKinley, A multiple subsystem approach to predicting speech intelligibility decline in older adults, SLHS, University of Missouri, 2015-2017

### Thesis Committee Member

Ellyn Anandel, Characterizing variable patterns of disease onset and progression in a mouse model of amyotrophic lateral sclerosis, SLHS, University of Missouri, 2017-2019

Elise Henn, Improving the clinical utility of diadochokinetic tasks for early detection of neurological tongue dysfunction, SLHS, University of Missouri, 2016-2018

Kaitlin Flynn, Characterization of dysphagia onset in a mouse model of amyotrophic lateral sclerosis, SLHS, University of Missouri, 2015-2017

Rebecca Harris, Standardizing a canine videofluoroscopic protocol for investigation of dysphagia in dogs with neurological diseases and primary aging, SLHS, University of Missouri, 2014-2016

## **Doctoral Students**

### Advisor

Thushani Umesha Munasinghe, Department of Communication Sciences and Disorders, University of Iowa, 2023

Deepthi Crasta, Department of Communication Sciences and Disorders, University of Iowa, 2023 –

### Co-Advisor

Katie Threlkeld, Department of Speech, Language and Hearing Sciences, University of Missouri, 2018-2023

### Dissertation Committee Member

Bhavana Bhat, Department of Communication Sciences and Disorders, University of Iowa, 2023 –

Andrea Rohl, Department of Neurosurgery, University of Iowa, 2024 –

Sabrina Bhangal, Department of Psychological Sciences, University of Missouri, 2020-2022

## **STUDENT ADVISING AND MENTORING**

## **Doctoral Students**

### Academic Mentor

Nicole Tomassi, ASHA Pathways Program, Boston University, 2023-2024

Liziane Bouvier, ASHA Pathways Program, McGill University, 2023-2024

Hilary Miller, ASHA Mentoring Academic Careers (MARC), Boston University, 2020-2021

Stacey Sangtian, ASHA MARC, University of South Carolina, 2019-2020

Jingwen (Joanne) Li, ASHA MARC, New York University, 2018-2019

Jessica Forbes, ASHA MARC, Howard University, 2018-2019

Priya Kucheria, ASHA MARC, University of Oregon, 2016-2018

Larissa Jordan, ASHA MARC, University of Iowa, 2015-2017

Melissa Randanzo, ASHA MARC, Teacher's College, Columbia University, 2015-2017

## **Student Awards**

- 2023 Outstanding Undergraduate Technical Session, Missouri Speech-Language-Hearing Convention
- 2022 School of Health Professions Dean's Award for Best Poster, MU Health Sciences Research Day
- 2021 3<sup>rd</sup> Place Best Poster Award, Boston Speech Motor Control Symposium
- 2021 Outstanding Undergraduate Poster Presentation, Missouri Speech-Language-Hearing Convention
- 2019 Outstanding Graduate Technical Session, Missouri Speech-Language-Hearing Convention
- 2018 School of Health Professions Dean's Award for Best Poster, MU Health Sciences Research Day
- 2018 Outstanding Graduate Technical Session, Missouri Speech-Language-Hearing Convention
- 2016 School of Health Professions Dean's Award for Best Poster, MU Health Sciences Research Day
- 2016 School of Health Professions Dean's Award for Best Poster, MU Health Innovation and Improvement Sharing Days
- 2016 School of Health Professions Dean's Award for Best Poster, MU Health Innovation and Improvement Sharing Days
- 2016 Outstanding Undergraduate Poster Presentation, Missouri Speech-Language-Hearing Convention
- 2016 Outstanding Graduate Poster Presentation, Missouri Speech-Language-Hearing Convention

## **PROFESSIONAL SERVICE**

### **Departmental Service**

- 2022 – 2023 Member, Mid-Probationary Tenure Review Committee
- 2019 – 2022 Member, Student Support Committee
- 2018 – Member, Search Committee, Tenure-Track Faculty
- 2017 – Member, Doctoral Program Committee
- 2017 – Member, Curriculum and Strategic Planning Committee
- 2015 Established AAC Lab for the SLHS Department
- 2013 – 2016 Member, Graduate Admissions Committee

### **Division/School Service**

- 2021 Member, Search Committee, Department Chair, Health Psychology
- 2015 – 2021 Member, Research Committee
- 2018 Chair of Research Committee
- 2014 Member, Search Committee, SHP Grants Office

### **Campus Service**

- 2020 Member, Human Subject Research Re-Emergence Working Group
- 2020 Member, Interdisciplinary Workgroup for Research Support and Infrastructure, MU Health Strategic Planning
- 2016 Grant Reviewer, MU PCORI Grants

## **PROFESSIONAL SERVICE**

### **State, Regional, and National Service**

- 2023 Host and Facilitator, ASHA Convention Research Roundtable, “Is a Research Career Right for Me (for undergraduates)?”
- 2023 Mentor, American Speech-Language-Hearing Association (ASHA) Pathways Program
- 2022 Program Chair, Speech Motor Control track, Conference on Motor Speech
- 2021 – 2025 Standing Committee Member, National Institute on Deafness and Other Communication Disorders (NIDCD), Communication Disorders Review Committee
- 2021 & 2016 Member, Speech and Language Science Planning Committee, ASHA Annual Convention
- 2021 Ad Hoc Reviewer, National Science Foundation
- 2018 – 2021 Ad Hoc Reviewer, NIDCD Voice-Speech-Language (VSL) Fellowship Applications
- 2019 Ad Hoc Reviewer, NIDCD, Loan Repayment Review
- 2018 Ad Hoc Reviewer, NIDCD Communication Disorders Review Committee
- 2018 Grant Reviewer, ASHA Foundation
- 2017 Reviewer, ASHA Students Preparing for Academic-Research Careers Program applications
- 2016 – 2018 Judge, Student Research Presentations, Missouri Speech-Language-Hearing Convention
- 2016 – Mentor, ASHA Mentoring Academic Research Careers (MARC) Program & ASHA Promoting the Next Generation of Researchers (PROGENY) Program

### **International Service**

- 2021 – Standing Committee Member, Research Board, All India Institute of Speech and Hearing, Karnataka, India

### **Editorial and Refereeing Responsibilities**

- 2023 – Editorial Board Member for JSLHR, Speech Section
- 2022 – 2023 Guest Editor, Special Issue of the Conference on Motor Speech, Journal of Speech, Language, and Hearing Research (JSLHR)
- 2018 – 2019 Editorial Board Member for JSLHR, Speech Section
- 2013 – Ad Hoc Reviewer: American Journal of Speech-Language Pathology; Brain; Clinical Linguistics and Phonetics; Folia Phoniatica et Logopaedica; IEEE Journal of Biomedical and Health Informatics; Journal of Communication Disorders; Journal of Speech, Language and Hearing Research; Logopedics Phoniatrics Vocology; Seminars in Speech and Language; Somatosensory and Motor Research; Topics in Language Disorders

## **PROFESSIONAL MEMBERSHIPS**

- 2021 – Academy of Neurologic Communication Disorders and Sciences
- 2017 – Acoustical Society of America
- 2017 – Northeast ALS Consortium
- 2016 – National Center for Faculty Development and Diversity
- 2009 – American Speech-Language-Hearing Association