

**Twenty-second Biennial
Conference on Motor Speech:
Motor Speech Disorders
&
Speech Motor Control**

Feb 25 – 28, 2026
Tempe, AZ

Motor Speech Disorders/Speech Motor Control

Co-Conference Chair: Heather Clark, Ph.D.
Co-Conference Chair: Jordan Green, Ph.D.
Co-Conference Chair: Yana Yunusova, Ph.D.
Program Chair: Rene Utianski, Ph.D.
Program Chair: Ayoub Daliri, Ph.D.

Signal Analytics Workshop

Co-Conference Chair: Visar Berisha, Ph.D.
Co-Conference Chair: Julie Liss, Ph.D.
Program Chair: Alan Wisler, Ph.D.

Publications: Christopher Dromey, Ph.D.

Conference Management: Mark Hakel, Ph. D.

Acknowledgment: This conference has been sponsored in part by the Department of Neurology, Mayo Clinic, Rochester, MN, the Division of Medical Sciences Communication Sciences and Disorders, Harvard, and the Institute for Rehabilitation Science and Engineering at Madonna Rehabilitation Hospital, Lincoln, NE.

WEDNESDAY, FEBRUARY 25, 2026

Signal Analytics Workshop

8:00 AM Welcome

8:15 AM SAMS Session 1: Computational & Neural Foundations of Disordered Speech

- Speech inversion neural networks can quantify articulatory proximity of errored phones to correct productions
 - N. Benway, S. Tabatabaee, D. Wang, B. Munson, J. Preston, C. Espy-Wilson
- Speech Acoustics Detect Preclinical Alzheimer's Risk Confirmed by Plasma p-Tau217 and APOE-ε4
 - M. Eshghi
- Dorsal and Ventral LMC: A Tale of Two Laryngeal Motor Cortices
 - N. Kshatriya, G. Battistella, L. O'Flynn, R. Belisle, S. Frankford, K. Simonyan

9:15 AM Keynote Speaker: Dr. Kristina Simonyan

10:45 AM Break

11:00 AM SAMS Session 2: AI Modeling of Speech Production

- Identifying clinically relevant articulatory patterns within perceptually inaccurate rhotic productions using self supervised learning on lingual ultrasound data
 - A. Eads, T. Kim, R. Lazarus, M. Leece, E. Hitchcock, J. Preston, B. McFee, H. Shu, T. McAllister
- A Clinically Informed Machine Learning Framework for Objective Prediction of Speech Intelligibility in Dysarthria
 - K. Kothadia, V. Berisha, J. Liss

11:40-1:10 PM SAMS Poster Session

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| B. Story, K. Bunton | The relation of vowel identification to vocal tract resonance deflection patterns |
| R. Kaipa, E. Landis | Electromyographic Analysis of Lip Muscle Activity During Speech and Nonspeech Oral-Motor Tasks |
| K. Dahl | Controlling for natural variation in fundamental frequency is unnecessary to measure vocal motor learning |
| J. Choi, K. Hwang, G. Moya-Galé, E. Levy | Automatic Speech Recognition for Differentiating Childhood Dysarthria from Typical Speech |
| H. Rowe, E. DiStefano-Forti, T. Latham, G. Shinde, K. Stipancic, E. Martin, L. Roberts, K. Allison | Slow and Steady Wins The Race: The Influence of Speaking Rate on Outcomes of SPEAK OUT!® Therapy Program for Individuals with Parkinson's Disease |
| B. Parrell, E. San Segundo | Automatically-extracted rhythm metrics can distinguish the presence, subtype, and severity of ataxic dysarthria |
| A. Thompson, A. Wisler, C. Wynn, K. Tetzloff, S. Yoho, S. Borrie | Segmental Variability as a Predictor of Perceptual Learning of Children's Speech |
| M. Kadyrova, J. Wang, E. Sejdic, Y. Yunusova | Deep learning-based tongue segmentation and motion quantification from in-the-wild videos for motor neuron disease assessment |
| A. Wisler, K. Tetzloff, S. Borrie | Intra-speaker variability inhibits speaker adaptation in automatic speech recognition |
| R. deJesus, J. Lee, B. Myers | Vowel Space Area and Vowel Articulation Index Increase After SPEAK OUT!® Therapy |
| A. Fletcher, A. Wisler, S. Borrie | Acoustic Analysis of Hypernasality in Dysarthria: An Evaluation of Automated Approaches |
| K. Teplansky, E. Rangel, J. Wang | Comparative Analysis of Articulatory Movements in Normal, Whispered, and Silent Vowel Production |
| E. Yeo, J. Liss, V. Berisha, D. Mortensen | Universal Articulation Entropy: A Multilingual Phoneme Production Metric in Dysarthria |
| T. Knowles, M. Philippone, M. Cuervo Cano, H. Cheng, J. Berry, A. Buchwald | Leveraging automatic forced alignment for acoustic segmentation of speech in Parkinson's disease |
| M. Cuervo Cano, H. Cheng, M. Philippone, T. Knowles, A. Buchwald | Using the Montreal Forced Aligner to transcribe English speakers producing non-native speech sequences |
| D. Rodriguez-Orozco, K. Teplansky, A. Narasimha, E. Rangel, J. Kwon, J. Wang | Cross-Linguistic Articulatory Working Space and Phoneme Distinctiveness in Spanish and English |
| A. Thompson, Y. Kim | Clear Speech Across Passage Reading in Parkinson's Disease |
| Z. Kriegel, S. Bolouri, D. Shukla, A. Gregory, A. Fullenkamp | Machine Learning Precision in Quantifying Speech Kinematics Across Fast Speech Rates |
| P. Kadambi, T. Mahr, K. Hustad | Noise Robustness of Automated Goodness of Pronunciation (GOP) in Child Speech |
| Z. Kriegel, V. Davydenko | Listener Perceptions of Primary Progressive Apraxia of Speech: Intelligibility with Progression and Training |
| H. Valentine, J. MacAuslan, M. Grigos, M. Speights | Comparing Automated Formant Measurement Tools with Diverse Pediatric Samples |

1:10-2:30 PM Lunch and MSC Registration

2:30 PM MSC Session 1: Therapeutic Advances for Treating Motor Speech Disorders

- Treating acquired apraxia of speech: An ANDCS systematic review of research spanning seven decades
 - K. Haley, L. Bislick, R. Johnson, C. King, K. Nealon, R. Utianski, J. Wambaugh
- Visual Biofeedback Accelerates Motor Learning for /ɪ/: Primary Outcome of a Preregistered Randomized Controlled Trial
 - T. McAllister, E. Hitchcock, N. Benway, M. Lara, M. Leece, W. Liang, J. Preston
- Room to breathe: The effects of combined SpeechVive and EMST treatment for hypokinetic dysarthria
 - E. Schieltz, K. Richardson, B. Kiefer, K. Stipancic, M. Troche, L. Roberts, J. Huber

3:30 PM Break

3:45 PM MSC Session 2: Cognition, Language, and Communication Participation

- Working Memory and Its Role in Speech Production

- Y. Merrikhi, A. Daliri
- Applying Systemic Functional Linguistics to Examine the Effects of Concurrent Task Demands on Linguistic Structure in Parkinson Disease
 - M. Pourmohammadi, B. Archer, J. Whitfield
- Communicative Self-Efficacy in Adolescents with Down Syndrome
 - M. Darling-White, T. Oglivie, K. Saunders, C. Baylor
- Turn-taking in conversations with people with Parkinson's Disease
 - L. Eijk, A. Fletcher, T. Barrett, S. Meekings, S. Borrie

5:05 – 7:00 PM Reception and MSC Poster Session 1

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| M. Masapollo, M. Mims, V. Ramjee, S. Nitttrouer | Sensorimotor control of speech movements by cochlear implant recipients |
| E. Levy, K. Hwang, J. Choi, G. Moya-Gale, K. Tetteh, J. Svec | Tutorial: How to audio-record and play back speech to include its intensity |
| L. Arzbecker, N. Cline, K. Tjaden | Validating automated speech timing methods across sentence, paragraph, and monologue tasks |
| H. Miller, M. Brickhouse, D. Hochberg, A. Nieto-Castanon, J. Tourville, B. Dickerson, F. Guenther | Neural Correlates of Speech Motor Sequence Learning in Primary Progressive Aphasia |
| J. Lee, S. Wolf, K. Sturges, K. Wilkinson | Relationship between tongue and jaw range of motion and acoustic vowel space in individuals with Down syndrome |
| A. Hilger, C. Cloud, K. Dunne-Platero | Improving Diagnostic Agreement in Dysarthria: Evidence from the Colorado Motor Speech Framework |
| M. Maffei | Early Motor and Language Predictors of Speech Motor Development in Late Talkers |
| K. Richardson, J. Huber | Respiratory Coordination Patterns During Metabolic and Speech-Related Breathing in Parkinson's Disease |
| J. Hunter, A. Goudarzi, E. Maas, B. Keller, L. Escalada-Cebadero, G. Moya-Gale | User Experience and Acceptability of a Web-based Application to Improve Intelligibility in Parkinson's Disease |
| K. Stipancic, K. Gates, A. Mefferd | Speaker and listener contributions to the minimally detectable change of intelligibility |
| T. Munasinghe, B. Bhat, H. Terband | Speech Perception in Developmental Speech Sound Disorders: An Updated Systematic Review |
| G. Meade, H. Clark, J. Duffy, R. Utianski | Communication preferences and AAC support among individuals with progressive apraxia of speech |
| A. Nielsen, D. Boeg Thomsen | Preoperative Speech Characteristics in Children with Posterior Fossa Tumours: Results from the Danish Subgroup of the European CMS Study |
| D. Togli, J. Vojtech, M. Díaz Cádiz, D. Dragicovic, K. Siedman, J. Rojas, A. Estrada, A. Haubrich, C. Stepp | Respiratory Kinematics during clear speech instruction in Parkinson's disease |
| M. Darling-White, A. Salazar Contreras, F. Murray, A. LaCross, T. Oglivie | "Sopa de Pescado": A Culturally and Linguistically Responsive Spanish Language Reading Passage for the Assessment of Motor Speech Disorders |
| A. Sreedhar, A. Basciano, A. Daliri | An ERP study exploring Pre-Speech Auditory Modulation in response to Congruent and Incongruent Stimuli |
| K. Haley, A. Jacks | Defining the quality of distortion errors in acquired apraxia of speech |
| E. Wang, T. Mahr, K. Hustad | Are parents' better judges of their child's speech? Quantifying the parental advantage in speech intelligibility |
| S. Kim, C. Daughtridge, M. Hirsch, A. Jacks, L. Johnson, M. Rodriguez, K. Haley | How do distortion errors and phonemic errors differentiate among stroke survivors with aphasia, apraxia of speech, and dysarthria? |
| B. Bhat, T. Munasinghe, E. Mueller, H. Terband | Development and Validation of a Novel Nonword Task to Assess Speech Accuracy in Children with SSD |
| K. Tetzloff, A. Wisler, S. Leopold, T. Barrett, S. Borrie | Perceptual learning of children's speech by naïve versus parent listeners |

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| C. Geissler, M. Jaye | Evaluation of prototype MagTrack articulograph and its effects on speech production |
| A. Shapira, A. Schiff, V. Livneh, S. Hassin-Baer, A. Ezra, A. Saar, T. Gurevich, Y. Manor | Smartphone-Based Speech Analysis for AI-Driven Dysphagia Detection in Parkinson's Disease |
| J. Koroschetz, K. Stipancic, J. Higginbotham, J. Huber | Comparing pause types to uncover pausing mechanisms in Parkinson's disease |
| J. Campbell, D. Byrd, L. Goldstein | Spectral and articulatory temporal properties of dysarthric speech |
| S. Ramani, T. Knowles, E. Hunter | Self-Perceptions of Vocal Effort and Fatigue in Parkinson's Disease: Exploring Communication Scenarios in Conversational Speech Task |
| S. Caspari, M. Beiting, T. Niculae-Caxi, E. Maas | A tale of two scoring systems: Speech accuracy as outcome measure in treatment studies for childhood apraxia of speech (CAS). |
| M. Lara, A. Eads, D. Shiller, J. Preston, E. Hitchcock, T. McAllister | Does Speech Treatment Affect Perception? Evidence From a Randomized Trial in Children With RSSD |
| L. Roberts, M. Cannito, K. Millard | Acoustic Markings of Lexical Stress in Oral Reading by Individuals with Parkinson's Disease Before and After Lee Silverman Voice Treatment |
| L. Bislick (Wilson), K. Haley, K. Nealon, C. Purcell, R. Johnson, R. Utianski, J. Wambaugh | Candidacy in apraxia of speech treatment: An ANCDs systematic review of research spanning seven decades |
| P. Rong, L. Heidrick | An interpretable acoustic-based approach for automated objective assessment and phenotyping of progressive communication disorders |
| D. Kung, P. McCabe, E. Bourne, P. Avramovic, S. Brassel, D. Thomas | A pilot study of Rapid Syllable Transition Treatment (ReST) for adults with Apraxia of Speech |
| J. Korkalainen, P. McCabe, R. Shehata, S. Reedman, A. Webb, Y. Pollock, S. Markoff | Effectiveness of Dynamic Tactile Temporal Cueing in improving speech and communicative participation in children with cerebral palsy: A qualitative study of parents' and clinicians' experience |
| B. Kim, M. Carl | Acoustic Properties of Diphthong and Speech Intelligibility in Down Syndrome |
| L. Eijk, S. Meekings | Interactional dynamics in online conversations with people who do and do not stutter |

THURSDAY, FEBRUARY 26, 2026

Motor Speech Conference

8:00 AM: MSC Session 3: Data-Driven Diagnosis in Motor Speech Disorders

- Speaking Rate and Pause Ratio as Disease-Specific Markers of Communicative Participation and Depression in Spinocerebellar Ataxia and Parkinson's Disease
 - H. Rowe, G. Shinde, K. Connaghan, A. Gupta
- The Power of Articulatory Priors: A Compact Model for Robust Motor Speech Disorder Classification
 - F. Wang, R. Utianski, J. Duffy, L. Barnard, H. Botha
- A Temporal Analysis of Multimodal Oral Diadochokinetic Performance For Differential Assessment of Motor Speech Impairments in Neurodegenerative Diseases
 - P. Rong, K. Marx

9:00 AM MSC Keynote 1: Dr. Hugo Botha

10:30 BREAK

10:45 – 11:45 AM: MSC Session 4: Dynamic Temporal and Tactile Cueing in Childhood Apraxia of Speech

- Cross-Linguistic Generalization of Segmental and Suprasegmental Gains from Dynamic Temporal and Tactile Cueing in Cantonese-English Bilingual Children with Childhood Apraxia of Speech
 - E. Wong, M. Wong, S. Velleman
- A Randomized-Controlled Trial Examining the Effect of Dose Frequency on DTTC Treatment Outcomes for Children with CAS
 - J. Case, M. Grigos, S. Velleman, E. Murray, D. Thomas, R. Cavanaugh, S. Anumandla, J. Iuzzini-Seigel
- Comparing Dynamic Temporal and Tactile Cueing (DTTC) with usual care: A randomized control trial
 - P. McCabe, J. Preston, E. Maas, R. Heard, D. Thomas, E. Murray, A. Purcell, M. Gomez, M. Leece, S. Arora, T. Staples, J. Choo

11:45 – 12:15 PM: MSC KEYNOTE SESSION 1 DISCUSSION

12:15 – 1:00 PM: Discussion about the future of CMS and ANCDS partnership

1:00 Adjourn for the day. Afternoon free.

FRIDAY, FEBRUARY 27, 2026

8:00 AM: MSC Session 5: Targeting Neural Circuits for Speech Rehabilitation

- Cortical areas causally involved in speech motor memory retention
 - N. Rao, R. Gendron, T. Manning, D. Ostry
- Systematic Individualized Motor Planning Learning Enhancement (SIMPLE) treatment with tDCS for Apraxia of Speech
 - A. Buchwald
- Targeted Deep Brain Stimulation of Motor Thalamus Improves Speech After Cerebral Lesions
 - J. Ting, L. Tang, S. Nouduri, A. Damiani, N. Macellari, K. Stipancic, J. Gonzalez-Martinez, E. Pirondini

9:00 AM: MSC Keynote Session 2: Dr. Jeremy Greenlee

10:30 AM BREAK

10:45 AM MSC Session 6: Neural processes of Sensorimotor Integration

- Older adults who modulate during speech planning exhibit better speech error correction abilities
 - A. Basciano
- Speech motor precision via inhibitory control in stuttering and non-stuttering adults
 - T. Saltuklaroglu, K. Reilly, A. Bowers, E. Brown, B. Rafferty, D. Casenhiser, A. Harkrider
- Age-related changes in neural responses to auditory feedback during speech production
 - R. Rangwala, K. Brent, K. Ranasinghe, J. Houde, S. Nagarajan

11:15 AM: MSC KEYNOTE SESSION 2 DISCUSSION

12:15 – 2:00 PM Lunch

2:00 – 4:00 MSC Poster Session 2

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| C. Dromey, N. Wynn | Task Priority in Divided Attention |
| H. Miller, D. Hochberg, A. Nieto-Castañon, B. Dickerson, F. Guenther | Clinical Predictors of Speech Motor Sequence Learning in Primary Progressive Aphasia |
| G. Moya-Gale, A. Goudarzi, E. Maas, X. Chen, L. Liu, B. Keller | Using Noise-Augmented Feedback and Automatic Speech Recognition to Improve Intelligibility, Ease of Understanding and Naturalness in Parkinson's Disease: A Phase 1a Study |

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| R. Kaipa, K. Redman | Sleep and Speech Motor Learning: Effects on Retention of Novel Utterances |
| M. Hirsch, D. Dragicevic, D. Toglia, C. Stepp | Stop Releases during Atypical Bilabial Stop Productions in Parkinson's disease: An Articulatory Kinematic Approach |
| H. Rowe, A. Meier | First Report of Acquired Stuttering Following Androgen-Deprivation Therapy: Clinical, Psychosocial, and Neuroimaging Findings from a Single Case |
| Y. Zhang, R. Behroozmand | Effects of Attentional Instructions on Vocal Auditory Feedback Control in Post-Stroke Aphasia |
| S. Honda, L. Max, A. Daliri | Delayed Auditory Feedback Differentially Influences Speech Production Variability in Stuttering and Typically Fluent Adults |
| H. Cheng, T. Murphy, B. Parrell, C. Niziolek | Production variability but not sensory acuity predicts speech sensorimotor adaptation |
| K. Allison, E. Heller Murray, K. Radville, A. Rutherford, A. Martens, A. Hong, N. Peterman, E. Zimmerman | Development of speech timing control in the second year of life |
| E. Wang, E. DiStefano-Forti, M. Grigos | First Time's the Charm: Lexical Stress Productions by Children with CAS |
| M. Ghasemi, Y. Ahmed, A. Coy, D. Mehta, J. Whitfield | Effects of speaking task and style on Articulatory-Acoustic Vowel Space (AAVS) estimation in Parkinson disease |
| H. Shin, A. Haenssler, Z. Scheier, J-P. Onnela, K. Burke, J. Berry, J. Green, K. Connaghan | From Clinician Ratings to Daily Life: Dysarthria and Communicative Participation in ALS |
| S. Frankford, A. Aaron, K. Siedman, C. Stepp | Factors Impacting the Reliability of Sensorimotor Adaptation of Voice Fundamental Frequency |
| T. Murphy, B. Parrell, C. Niziolek | Retention of Sensorimotor Adaptation to a Nonuniform Feedback Perturbation Field: A Preliminary Report |
| R. Hoyer, G. Welling, T. Maliakal, K. Bopoarai, S. Frankford | Motor_Speech_Perception_Production_Timing |
| S. Bruneaux, C. Spencer | Comparing early vs late learners of /ɹ/ |
| L. Bislick (Wilson), S. Eaton | Motor Imagery for Treatment Enhancement and Efficacy in Apraxia of Speech: Preliminary Findings |
| E. Tesch, A. Daliri, J. Liss | Auditory feedback relevance and error memory shape adaptive speech motor responses |
| T. Schnoor, B. Tucker, B. Story | A web interface for tube acoustic speech simulation |
| S. Ramani, T. Knowles, C. Glabach | The Influence of Task, Environmental, and Cognitive Demands on Self-Perceived Vocal Effort and Fatigue in Parkinson's Disease: A Qualitative Study |
| R. Karlin | Speakers do not learn word-specific auditory-motor delays in speech |
| D. Crasta, M. Kuruvilla-Dugdale | The Limits of Anchoring Perceptual Judgments in Dysarthria Assessment |
| A. Jacks, S. Kim, M. Rodriguez, L. Johnson, C. Daughtridge, M. Hirsch, K. Haley | Voice Onset Time in Left-Hemisphere Stroke Survivors |
| C. Geissler, J. Nellakra | Critically-damped oscillators and General Tau Theory exhibit similar error across speakers with different vocal tract dimensions |

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| K. Brent, J. Gaines, R. Rangwala, A. Pongos, S. Gupta, V. Ramanarayanan, B. Parrell, J. Houde, S. Nagarajan | Atypical Vocal Responses to Pitch Feedback Perturbations in Laryngeal Dystonia |
| J. Korkalainen, P. McCabe, R. Shehata, S. Reedman, A. Webb, Y. Pollock, S. Markoff, D. Thomas | Effectiveness of Dynamic Tactile Temporal Cueing in improving speech and communicative participation in children with cerebral palsy: A single case experimental design |
| I. Nip, S. Coleman, L. Blumenfeld, P. Weissbrod | Impact of Radiation Therapy and Tumor Burden on Speech Movements in Patients with Oropharyngeal Cancer |
| H. Wang, J. Herron, G. Cler, A. Ko, L. Max | Speech Auditory–Motor Adaptation and Syllable Sequence Learning Are Differentially Affected in Parkinson’s Disease and Essential Tremor but Independent of Deep Brain Stimulation |
| J. Li, L. Max | In search of the factors that limit formant-shift adaptation: studies of feedback frequency response and task instructions |
| Y. Zeng, B. Parrell, C. Niziolek | Sensorimotor adaptation can improve both production and perception of a non-native vowel contrast |
| M. Littlejohn, E. Heller Murray, E. Maas | Validity of transitional and variability acoustic measures in childhood apraxia of speech |
| K. Reilly | Modelling speech rate in healthy speakers and speakers with Parkinson’s disease |
| H. Terband, B. Bhat, B. Johnson, E. Ward, T. Munasinghe, E. Mueller | Vowel production in children with Speech Sound Disorders: Intrinsic fundamental frequency and acoustic correlates of articulation of corner vowels in American English |

4:00 PM MSC Session 7: Behavioral bases of Sensorimotor Integration

- Speech motor control and learning in young children who do and do not stutter
 - V. Tumanova, S. Fiorante
- Assessing ecologically valid measures of auditory feedback control in older adults with and without Parkinson’s disease
 - N. Tomassi, H. Weerathunge, C. Dunsmuir, J. Bohland, F. Guenther, E. Stephen, C. Stepp
- Observation Alone Does Not Drive Speech Adaptation: Supporting a Role for Motor Planning
 - B. Parrell, M. Bae, C. Naber, O. Ki, C. Niziolek, S. McDougale

5:00 PM MSC Session 8: Computational Models of Speech Production

- Random variation due to controller noise can account for both compensatory and following responses in a computational model of auditory feedback perturbations of vocal pitch
 - J. Gaines, K. Brent, R. Rangwala, A. Pongos, V. Ramanarayanan, B. Parrell, K. Kim, J. Houde, S. Nagarajan
- Estimating uncertainty in subject-specific parameters: Physiologically constrained bootstrapping for sensorimotor adaptation experiments
 - N. Quinteros, J. Parra, L. Severino, J. Cortes, G. Alzamendi, C. Stepp, F. Guenther, M. Zanartu
- Disentangling cerebellar computational mechanisms for speech compensation using simulation based inference
 - A. Pongos, K. Kim, B. Parrell, V. Ramanarayanan, J. Gaines, S. Nagarajan, J. Houde

6:00 PM Adjourn for the day

SATURDAY, FEBRUARY 28, 2026

8:00 AM MSC Session 9: Objective measures of pediatric motor speech disorders

- Towards a Data-Driven Motor Speech Evaluation: Acoustic Predictors of Intelligibility in Pediatric Acquired Brain Injury (ABI)

- A. Mancini, A. Hilger
- Measuring Formants in Children with Variable Voices
 - E. Heller Murray, K. Allison, B. Story
- Longitudinal differences in speaking rate and speech efficiency in children with cerebral palsy and their neurotypical age-mates
 - T. Mahr, J. Soriano, K. Hustad

9:00 AM MSC Poster Session 3

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| S. Yoho Leopold, K. Tetzloff, S. Borrie | Enhancing Speech Understanding in Childhood Apraxia of Speech: A Perceptual Learning Approach for Clinicians |
| M. Masapollo, A. Stewart, A. Ludwig, F. Dotsenko, S. Nitttrouer | Inter-articulator speech motor timing and coordination |
| A. Page, C. Mancinelli, J. Theurer, M. Jog, S. Adams | Exploring the stability of self-rated communicative effectiveness among individuals with hypophonia and Parkinson's disease |
| S. Adams, L. Wang, D. Cushnie-Sparrow, M. Jog, V. Parsa | A speech-to-noise feedback device for individuals with hypophonia and Parkinson's disease |
| J. Lee, N. Viswanathan, A. Olmstead, J. Chen, E. Krajewski, L. Ghayedlou | Task-specific vowel acoustic changes in individuals with dysarthria secondary to amyotrophic lateral sclerosis |
| J. Vuolo, C. Evans | Voice Onset Time Accuracy and Variability in CAS, DLD, SSD, and TD |
| N. Cline, J. Huber, K. Richardson, K. Stipancic, K. Tjaden | Speech task and severity effects on acoustic measures in hypokinetic dysarthria |
| B. Myers, R. deJesus | Long-term benefits of SPEAK OUT! therapy on dysarthria secondary to Parkinson's disease |
| J. Case, K. Sullivan, H. Deschaine, Y. Lu, M. Grigos | Effects of Caregiver Training on DTTC Treatment Outcomes in Childhood Apraxia of Speech: A Randomized Control Trial |
| L. Williams, M. Pourmohammadi, M. Ghasemi, J. Whitfield | Perceptual Changes in Clear Speech Across a Passage in Parkinson Disease: Acoustic Correlates and Talker Variability |
| E. Wong, A. Karamete, A. Noyan Erbaş | Review of Assessment and Diagnostic Standards of Childhood Apraxia of Speech in Turkish-Speaking Children |
| K. Haley, S. Kim, C. Daughtridge, L. Johnson, M. Rodriguez, M. Hirsch, A. Jacks | How often are apraxia of speech and dysarthria diagnosed after left hemisphere stroke? |
| E. Wang, K. Hustad | Content, modifiers, and functors, oh my! How linguistic classes impact intelligibility of habitual and slow speech in children with cerebral palsy |
| S. Hayes, J. Munday, K. Hustad | How do Viking Speech Scale levels relate to speech intelligibility scores? |
| J. Wang, C. Barnett Tapia, Y. Yunusova | Speech language pathology services for management of bulbar symptoms in myasthenia gravis: A scoping review |
| A. White, J. Munday, K. Hustad | Mapping Subjective Speech Severity Ratings to Objective Speech Measures in Adolescents with Cerebral Palsy |
| D. Ng, E. Wong | Assessment and management of multilingual children with Childhood Apraxia of Speech: A scoping review |
| Y. Chang | Gamified intervention for children with cerebral palsy: Integrating speech and upper extremity motor therapies |
| K. Connaghan, K. Burke, M. Demello, S. Mandepudi, K. Furney, H. Shin, N. Barnett, B. | Exploring Links Between Motor Speech Impairment and Social Connectedness in ALS |

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| Richburg, K. Carney, J-P Onnela, G. Usmanov, A. Dhand, J. Berry, J. Green | |
| D. Ng, J. Wu, P. McCabe | Speech characteristics of multilingual children with CAS: Clinical and cross-linguistic considerations |
| B. Bhat, E. Mueller, T. Munasinghe, H. Terband | The role of somatosensory perception in speech sound production in children with CAS |
| M. Telling, J. Hurkmans, A.M. van de Zande, H. Terband, B. Maassen, R. Jonkers | Speech-Music Therapy in the treatment of childhood apraxia of speech: a multiple single-subject treatment study. |
| M. van Telling, H. Terband, J. Hurkmans, B. Maassen, R. Jonkers | Working mechanisms of music in the treatment of childhood apraxia of speech: using music to cue gestural timing. |
| D. Knežević, E. Wang, E. Wong | Childhood Apraxia of Speech Worldwide: A Cross-Linguistic Review and Global Survey |
| J. Preston, E. Hitchcock, N. Benway, M. Leece, T. McAllister | Rhotic Generalization is More Rapid in Biofeedback than Motor-Based Treatment for Residual Speech Sound Disorder: Secondary Outcomes of a Randomized Controlled Trial |
| S. James, J. Huber, M. Redford | Predicting Inhalations at Pauses in Speech Produced by Older Adults with and without Parkinson's Disease |
| J. Anderson, R. Utianski, K. Grammatica, A. Brandimore, J. Gaziano | Candidacy, Recommendation, and Pursuit of SpeechVive in Patients in Neurodegenerative Diseases |
| S. Cook, E. Heller Murray, E. Maas | Defining Frustration in Intensive Speech Therapy for Childhood Apraxia of Speech: A Qualitative Approach |
| Y-F. Chiu, J. Longhurst, A. Fletcher, T. Loux | Dual task effect on speech pausing in Parkinson's Disease |
| C. Anderson, M. Clayards, D. Shiller | Optimizing Visual Acoustic Biofeedback: Effects of Feedback Frequency on Speech Motor Learning and Retention |
| T. Munasinghe, B. Bhat, H. Terband | Lexical stress contrast and variability in children with speech sound disorders |
| D. Crasta, M. Linneweh, D. Cukierkorn, E. Kutlu, M. Kuruvilla-Dugdale | Linguistic Diversity in Dysarthria Assessment: Comparing Perceptions of Native and Non-Native English Listeners |

11:00 AM MSC Session 10: Objective measures of progressive motor speech disorders

- Articulator- and Direction-Specific Amplitude Distribution Characteristics of Talkers with Dysarthria due to Various Disease Types
 - C. Raines, J. Lee, K. Tjaden, R. Callen, A. Mefferd
- Leveraging Multimodal Data for Estimating Severity of Bulbar ALS
 - V. Akundi, E. Sejdic, Y. Yunusova
- Speech timing and rhythm differences between Parkinson's disease phenotypes
 - J. Vojtech, K. Smith, C. Stepp
- Translation of craniofacial surface electromyography into a clinically applicable objective assessment tool for bulbar involvement in amyotrophic lateral sclerosis
 - P. Rong, L. Heidrick, G. Pattee

12:20 PM: Conference Ends