**Twentieth Biennial**

**Conference on Motor Speech:**

###### Motor Speech Disorders

**&**

**Speech Motor Control**

Feb 19 – 23, 2020
Santa Barbara, CA

### Motor Speech Disorders

Co-Conference Chair: Kathryn Yorkston, Ph.D.

Co-Conference Chair: Heather Clark, Ph.D.

Program Chair: Jessica Huber, Ph.D.

#### Speech Motor Control

Co-Conference Chair: Jordan Green, Ph.D.

Program Chair Cara Stepp, Ph.D.

 **Signal Analytics Workshop**

Co-Conference Chair: Visar Berisha, Ph.D.

Co-Conference Chair: Julie Liss, 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 Rehabilitation Medicine, University of Washington, Seattle, the Department of Special Education & Communication Disorders, University of Nebraska, Lincoln, the Institute for Rehabilitation Science and Engineering at Madonna Rehabilitation Hospital, Lincoln, Nebraska.

**Continuing Education Units (CEUs)**

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###### WEDNESDAY, FEBRUARY 19, 2020

###### Signal Analytics Workshop

12:00 PM Registration

1:00 PM Welcome

1:10 PM Keynote Speaker

* Dr. Shri Narayanan

**2:10 PM Session 1: Interpretable speech feature representations**

* Assessment of Prosodic and Articulatory Interactions in Autism Spectrum Disorder
	+ T. Talkar, J. Williamson, D. Hannon, H. Rao, S. Yuditskaya, D. Sturim, K. Claypool, L. Nowinski, H. Saro, C. Stamm, M. Mody, C. McDougle, T. Quatieri
* A comparison of interpretable acoustic features identified diverse tendencies in several motor speech disorders
	+ J. Hlavnička, V. Berisah, J. Liss, J. Rusz

**3:00 Break**

**3:10 Session 2: Remote assessment**

* Evaluating a wearable mechano-acoustic sensor and iPhone application for speech data in individuals with Alzheimer’s dementia, mild cognitive impairment, and Parkinson’s disease
	+ R. Richter, B. Fujii, N. Razin, A. Roberts, J. Rogers, S. Xu
* Evaluating the Validity of Using Speech Analytics for Remotely Tracking Amyotrophic Lateral Sclerosis (ALS) Progress
	+ G. Stegmann, S. Hahn, V. Berisha, J. Liss, S. Rutkove, K. Qi, K. Shelton, J. Shefner

**4:00 Break**

**4:10 Session 3: Applications of deep learning**

* Improving Deep Learning Networks for Automatic Orofacial Assessment across Clinical Populations
	+ D. Guarín, B. Taati, A. Bandini, T. Hadlock, Y. Yunusova
* Recognition Of Short Utterances From A Closed Set Produced By Dysarthric Speakers Using A Deep Convolutional Network
	+ S. Cai, B. Richburg, M. Maffei, I. Alvarado, J. Cattiau, K. Seaver, J. Green, M. Brenner

5:00-6:30 Poster Session

|  |  |
| --- | --- |
| K. Smith | Changes in fundamental frequency in spontaneous speech correlate with cognitive function in Parkinson’s disease |
| A. Glotfelty, W. Katz | The Role of Visibility in Silent Speech Tongue Movements: A Kinematic Study of Consonants |
| A. Wisler, K. Teplansky, J. Green, Y. Yunusova, T. Campbell, D. Heitzman, J. Wang | Analyzing Residuals of Machine Learning based ALS-FRS Speech Score Predications |
| J. Berry, Y. Kim | Dysarthria and Dialect Affect the Kinematics of Connected Speech |
| V. Ramanarayanan, D. Suendermann-Oeft | Leveraging Multimodal Dialog Technologies and Machine Learning for Patient Health Diagnosis, Monitoring, and Intervention |
| A. Wisler, K. Teplansky, J. Green, Y. Yunusova, T. Campbell, D. Heitzman, J. Wang | ALS detection based on onset using correlation structural features from kinematic measurements |
| K. Teplansky, S. Dutta, B. Cao, J. Wang | Tongue and Lip Motion Patterns of Alaryngeal and Silent Speech |
| M. Saxon, A. Tripathi, J. Liss, V. Berisha | A new model for objective estimation of hypernasality from dysarthric speech |
| V. Woisard | Carcinologic Speech Severity Index |
| K. Cunningham, A. Jacks, K. Haley | Dysarthria in rapid-onset dystonia-parkinsonism: A longitudinal case study |

###### THURSDAY, FEBRUARY 20, 2020

###### Motor Speech Conference

**7:00 AM Registration and Continental Breakfast**

**8:15 AM Welcome**

**8:30 AM Session 1**

* Compensation to Altered Auditory Feedback in Children with Developmental Language Disorder
	+ C. Coughler, E. Hamel, J. Cardy, D. Purcell, L. Archibald
* Patients with cerebellar degeneration correct for sub-categorical vowel variation even when auditory feedback is blocked.
	+ B. Parrell, S. Nagarajan, R. Ivry, J. Houde
* Improved fluency with auditory masking in participants with left inferior frontal lesions
	+ A. Jacks, K. Haley, T. Harmon

**9:30 AM Session 2**

* Developing an evidence-based assessment for childhood dysarthria – Test materials and age norms for auditory parameters
	+ T. Scholderle, E. Haas, W. Ziegler
* Effects of Dual-Focus Speech Treatment on Communication in Children With Dysarthria
	+ E. Levy, Y. Chang, K. Hwang, A. Bahrami, A. Cerva, A. Choi, C. Kraemer, M. McAuliffe
* Speech Production in Down Syndrome: Perceptual and Acoustic Results
	+ R. Kent, H. Vorperian, J. Eichhorn, & E. Wilson
* Intonational realization of the question-statement contrast in children with dysarthria and cerebral palsy
	+ A. Kuschmann

**10:50 AM Break**

**11:10 AM Session 3**

* Comparative diagnostic accuracy of acoustic and kinematic measures for identifying motor speech impairment in primary progressive aphasia
	+ C. Cordella, M. Eshghi, K. Getchell, B. Dickerson, J. Green
* The Use of Lexical Cues in Listener Processing of Dysarthria
	+ A. Fletcher, M. McAuliffe
* Speech Sensorimotor Impairment in Aphasia and the Role of Dorsal Stream Network
	+ R. Behroozmand

**12:10 PM Lunch**

**1:45 PM Special Session 1: Panel on speech motor control**

* From semantic knowledge to articulation: How much can we chunk word production?
	+ Bonnie Nozari
* Panel Discussions
	+ Bonnie Nozari, Jason Bohland, John Houde

**3:15 PM – 5:15 PM Poster Session 1**

|  |  |
| --- | --- |
| K. Richardson, J. Huber, B. Kiefer, A. Dalton, S. Snyder | A comparison of two forms of intensive voice treatment for Parkinson’s disease |
| S. Borrie, T. Barrett, J. Liss, V. Berisha | Characterizing conversational entrainment in dysarthria: Current knowledge and future directions |
| D. Abur, A. Subaciute, A. Daliri, R. Lester-Smith, A. Lupiani, D. Cilento, M. Tardiff, H. Weerathunge, C. Stepp | Auditory-Motor Bases of Voice and Articulatory Impairments in Parkinson's disease |
| H. Rowe, J. Green | Acoustic Profiles of Speech Motor Control: Towards a Differential Diagnosis of Dysarthria Subtypes |
| C. Baylor, T. Eadie, M. Kapsner-Smith, D. Britton, H. Mach, J. Jin, K. Yorkston | Defining meaningful change in communicative participation after intervention for people with Parkinson’s disease |
| M. Beiting, E. Maas | Autism-Centered Therapy for Childhood Apraxia of Speech |
| Y. Yunusova, A. Waito, C. Barnett, R. Martino, A. Abrahao, L. Zinman, J. Green | A Novel ALS Index of Bulbar Dysfunction (ALS-IBD): Establishing Face and Content Validity |
| L. De Nil, S. Isabella, C. Jobst, D. Cheyne | Complexity-dependent modulations of beta oscillations for speech and nonspeech movements. |
| E. Kearney, D. Smith, C. Stepp, F. Guenther | Contributions of Auditory and Somatosensory Feedback to Vocal Motor Control |
| A. Thompson, Y. Kim | Speech Changes within Passage Reading in Speakers with Parkinson’s Disease |
| M. Grigos, J. Case, E. Strand | Changes in speech motor control with DTTC treatment in young children with CAS |
| J. Kim, A. Roberts, C. Larson | Auditory working memory training for auditory-vocal control: A multiple baseline single-case experimental design study |
| E. Wang, M. Grigos | Are timing and variability separate indicators of speech motor control? A look across the lifespan. |
| YH. Chang, P-Y. Jeong, B. Ihn, E. Ryu, M. McAuliffe, K. Hwang, HS. Sim, E. Levy | Acoustical and Perceptual Consequences of Speech Cues in Korean-speaking Children With Cerebral Palsy |
| K. Threlkeld, M. Sifford, G. Nolan, L. Heidrick, M. Kuruvilla-Dugdale | Clinical Value of Auditory-Perceptual Speech Measures for Detecting Mild Speech Impairments |
| B. Walsh | An fNIRS study of speech production in children and adults |
| C. Niziolek, B. Parrell | Assessing the consistency of compensation for auditory errors across error sources, testing sessions, and changes in feedback reliability. |
| E. LeBovidge, L. Max | Anchoring speakers’ auditory targets via playback of typical productions does not facilitate auditory-motor adaptation |
| T. Knowles, S. Adams, M. Jog | Acoustic changes along a modified speech rate continuum |
| M. Darling-White, S. Whitney Banks | An examination of the relationship between sentence length and speech rate in typically developing adolescents |
| D. Kim, A. Mefferd, M. Kuruvilla-Dugdale | Articulatory Mechanisms of Stress Pattern Disturbances in Dysarthria |
| H. Long, N. Eichorn, D. Kimbrough Oller | Canonical babbling in infants at-risk for cerebral palsy: A longitudinal multiple case study |
| I. Nip, M. Burke | Comparison of Slow, Loud, and Clear Speech in People with Parkinson's Disease With and Without Deep-Brain Stimulation |
| I. Scarcella, L. Michelazzo, P. McCabe | A single case experimental design study of Rapid Syllable Transition (ReST) treatment for Italian children with Childhood Apraxia of Speech |
| A. Van Doornik, S. McLeod, H. Terband, E. Gerrits | Severity of speech sound disorders |
| C. Rountrey | An Examination of the Effect of Background Noise on Speech Intelligibility in Spontaneous Parkinsonian Speech |
| C. Cassar, P. McCabe, S. Cumming | "I still have issues with pronunciation of words": The long term speech and psychosocial effects of Childhood Apraxia of Speech |
| J. Manes, E. Herschel, A. Kurani, A. Roberts, K. Tjaden, T. Parrish, T. Simuni, D. Corcos | Correlating out-of-scanner voice intensity with laryngeal motor cortex activity in older healthy adults and individuals with Parkinson’s disease and hypophonia |

5:15 PM Reception

**FRIDAY, FEBRUARY 21, 2020**

**7:30 AM Continental Breakfast**

**8:00 AM Session 4**

* Efficacy of a home-based treatment paradigm, EMST and SpeechVive, to improve communication in Parkinson’s Disease
	+ B. Kiefer
* Investigating Intelligibility Gains for a Slowed Rate Using Hybridization
	+ F. van Brenk, A. Kain, K. Tjaden
* Acoustic and Kinematic Contrastivity in Speakers with Parkinson’s disease: Focusing on Variability
	+ Y. Kim, A. Thompson, E. Kennedy
* Dual-Task Speech Performance in Multiple Sclerosis
	+ L. Feenaughty

**9:20 – 11:10 AM: Poster Session 2**

|  |  |
| --- | --- |
| K. Chenausky | Factor Analysis of Signs of Childhood Apraxia of Speech |
| E. Haas, T. Scholderle, W. Ziegler | Developmental courses and communicative abilities in childhood dysarthria - a longitudinal study |
| H-S. Cheng, I. Grzebyk, A. Buchwald | Is Voicing Encoded in Speech Motor Representations? Evidence from Transfer of Learning |
| K. Nealon, L. Edmonds | Effects of Verb Network Strengthening Treatment (VNeST) on hallmark clinical features of Apraxia of Speech |
| A. Page, N. Elhayek, C. Baylor, S. Adams, & K. Yorkston | Exploring the psychosocial impact of botulinum toxin type-A injections for individuals with oromandibular dystonia: a qualitative study of patients' experiences |
| L. Kallhoff, J. Wambaugh, C. Nessler | Generalization Outcomes of Sound Production Treatment (SPT) for Acquired Apraxia of Speech: Relationship to Treatment Dosage |
| Y. Wang, F. Sibaii, R. Custead, H. Oh, S. Barlow  | Functional brain connectivity during orofacial pneumotactile stimulation: a fMRI study |
| B. Story, K. Bunton | The relation of nasal coupling area to the perception of stop versus nasal consonants |
| A. Staiger, M. Schroeter, W. Ziegler, T. Scholderle, J. Diehl-Schmid | Identification and classification of motor speech disorders in primary progressive aphasia: a blinded retrospective cohort study |
| M. Balaguer, T. Pommee J. Farinas, J. Pinquier, V. Woisard | Functional impact of speech disorders in patients treated for oral or oropharyngeal cancer, assessed by perceptual and automatic measurement |
| E. Usler, B. Richburg, J. Green | Development of Intermuscular Coherence between Mandibular Muscles in Young Children |
| P. Rong | Intermuscular coherence as a physiological marker of bulbar motor involvement in amyotrophic lateral sclerosis |
| J. Greenwood, S. Barlow | pTACS: A New Platform for Neurotherapeutics and Neuroprotection in Large Vessel Ischemic Stroke |
| S. Holdosh, J. Whitfield, C. Dromey | Examining Acoustic-Kinematic Relationships of Articulatory Movement in Sentence-Level Productions |
| J. Rogers, L. Feenaughty | Effects of lexical familiarity and neuropsychological status on articulation duration in multiple sclerosis |
| A. Thakar, L. Bislick | Effects of Feedback Type on Retention of a Novel Speech Task. |
| A. Lowit, A. Egan | Effectiveness of LSVT in treating people with hereditary ataxia: speech outcomes and patient perceptions |
| J. Cleland | Gradient Change in Lingual Gestures in Children with Motor Speech Delay |
| S. Gutz, J. Green | Feedback from automatic speech recognition software to induce clear speech |
| G. Moya-Gale, E. Levy | Examining Intelligibility and Naturalness Changes in French-Speaking Children with Cerebral Palsy: A Small-Scale Randomized Controlled Trial |
| J. Kidwai, J. Brumberg | Investigating a neural marker of speech intention |
| F. Hobler, T. Bitan, L. Tremblay, L. De Nil | Differences in Implicit versus Explicit Motor Learning between Adults who do and do not Stutter |
| M. Kuruvilla-Dugdale, A. Mefferd, M. Hakenewerth, A. Linderer | Intralingual Coupling in Parkinson’s Disease: Effects of Phonetic Complexity |
| J. Korkalainen, P. McCabe, A. Smidt | Improving functional communication outcomes for children with cerebral palsy |
| F. van Brenk, H. Terband, B. Maassen | Modelling of Individual Differences in Speakers’ Responses to Auditory Feedback Perturbation using SimpleDiva |
| T. Eadie, H. Durr, C. Sauder, K. Spencer, M. Kapsner-Smith, K. Nagle | Effect of noise on speech intelligibility and perceived listening effort in head and neck cancer |
| C. Tanchip, Y. Yunusova, A. Waito, C. Cui, D. Guarin, J. Green | A Complexity-Based Approach for Automatic Diadochokinesis Analysis in Amyotrophic Lateral Sclerosis (ALS) |

**11:10 AM Session 5**

* Acoustic features of vowel and sibilant productions during natural speech: Implications for sensorimotor control
	+ K. Reilly, D. Casenhiser, B. Rafferty
* Influence of Prime-Target Mismatch on Lip and Jaw Kinematics
	+ Z. Kriegel, L. Kalinowski, A. Fullenkamp, J. Whitfield
* Chest Wall Intermuscular Coherence Associated with Non-speech and Speech Tasks Across the Lifespan
	+ A. Reed, J. Cummine, D. Bremmekamp, A. Tam, C. Boliek
* Vocal Pitch Perception and Production in Children and Adults
	+ E. Heller Murray, C. Stepp

**12:30 PM Afternoon free**

**SATURDAY, FEBRUARY 22, 2020**

**7:30 Continental Breakfast**

**8 AM Session 6**

* Variability in CAS: An investigation of practice effects
	+ J. Case, M. Grigos
* Agreement of childhood apraxia of speech diagnosis using two objective measures: Syllable Repetition and Maximum Performance Tasks
	+ J. Preston
* Speaking the same language? Developing a rating form for speech features of Childhood Apraxia of Speech for an international reliability study.
	+ E. Murray, S. Velleman, J. Preston, P. McCabe, R. Heard

**9:00 AM Poster Session 3**

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| --- | --- |
| K. Yorkston, C. Baylor, M. Kapsner-Smith | Levels of Communicative Participation with Botox Intervention for Spasmodic Dysphonia:A Qualitative Study |
| H. Terband, T. Lentz | Perception-production relationships in weighting phonetic cues of vowel contrasts |
| K. Allison, M. Russell, K. Hustad | Reliability of SLP’s phonetic accuracy and nasality judgments for children with dysarthria |
| E. Hoffman, J. Lee, J. Greenwood, S. Barlow | Perioral and Digit Vibrotactile Threshold Estimation in Neurotypical Children |
| L. Sandström, E. Schalling, F. Karlsson, P. Blomstedt, L. Hartelius | PSA-DBS effects on speech and voice in persons with essential tremor |
| A. Daliri, S. Chao, L. Fitzgerald | Reduced Auditory Motor Compensation in Response to Large Formant Perturbations |
| E. Wong, Y. Sheung, K. Lee, C. Fai, M. Tong | Sequencing Lexical Tone In Children With Childhood Apraxia Of Speech: Preliminary Results |
| C. Tanchip, Y. Yunusova, D. Guarin | Robustness of Acoustic Measures of Voice to Background Noise During Clinical Recordings |
| E. Maas, S. Caspari, M. Beiting, C. Gildersleeve-Neumann, R. Stoeckel, J. Wu | Parent-Rated Functional Outcomes of Treatment for Childhood Apraxia of Speech: Preliminary Findings from a Randomized Controlled Trial. |
| A. Gravelin, J. Whitfield | Relationship among Perceptual and Acoustic Measures of Habitual and Clear Speech in Individuals with Parkinson Disease |
| T. Mahr, K. Kawabata, V. Berisha, S. Tang, H. Vradelis, J. Liss, K. Hustad | Performance of forced-alignment algorithms on children’s speech |
| K. Connaghan, C. Barylor, M. Romanczyk, J. Rickwood, G. Bedell | Social Interaction and Communicative Participation Experiences of Youth with Congenital Dysarthria |
| Y-F. Chiu, A. Neel | Perceptual predictors of speech intelligibility in Parkinson's disease across listening conditions |
| H. Hybbinette, J. Plantin, P. Ostberg, E. Schalling, P. Lindberg | Recovery patterns in patients with apraxia of speech, aphasia and hand motor impairment after stroke |
| G. Cler, S. Krishnan, D. Papp, C. Wiltshire, J. Chesters, M. Healy, K. Watkins | Quantitative multi-parameter mapping of basal ganglia in people who stutter |
| M. Eshghi, B. Perry, K. Stipancic, B. Richburg, H. Ventresca, B. Pomahac, J. Green | Neuromotor speech recovery across different speaking modes in individuals following facial transplantation |
| J. McManaman, K. Nagle | Measuring the syntactic complexity of Sentence Intelligibility Test sentences |
| J. Berry, M. Johnson | Perceived Acoustic Working Space Modulates Sensorimotor Learning |
| P. Ambadi, B. Barragan, V. Berisha, J. Liss | Measuring the Effects of Repetitive Transcranial Magnetic Stimulation on the Vowel Space Area |
| H. Wang, L. Max | Manipulating variability in the baseline phase of speech auditory-motor adaptation tasks |
| A. Alvar, D. Matheron, S. Snyder, K. Richardson, M. Darling-White, E. Stathopoulos, J. Susman, J. Huber | Relationships among Objective Measures of Speech Production in Parkinson Disease |
| C. Spencer, J. Vannest, E. Maas, J. Preston, E. Redle, S. Boyce | Neuroimaging of the Syllable Repetition Task in children with residual speech sound disorder (RSSD) |
| V. Ramanarayanan, B. Parrell, S. Nagarajan, J. Houde | Simulating adaptation in the FACTS model of speech motor control |
| M. Heyne, J. Segawa, D. Beal, J. Tourville, F. Guenther | Reduced structural connectivity within the speech motor sequence planning network in persons who stutter |
| P. McCabe, M. Leong, B. Butt, J. Cusiter | Treatment of articulation disorders in children. A pragmatic randomised control trial |
| K. Haley, K. Cunningham, A. Jacks, J. Richardson, T. Harmon | Repeated word production is inconsistent in aphasia and especially in apraxia of speech |
| B. Maassen, H. Terband, S. Diepeveen, L. van Haaften, L. van den Engel-Hoek, B. de Swart | Maximum Repetition Rate normative data from a large sample of Dutch-speaking children, and its role in speech profiling. |

**10:45 AM Session 7**

* Speech Network Involvement in Bulbar ALS: Structural MRI and Post-Mortem Neuropathology
	+ S. Shellikeri, J. Keith, S. Black, L. Zinman, Y. Yunusova
* Spatiotemporal control of articulatory movement and coordination during speech and speechlike tasks in persons with amyotrophic lateral sclerosis
	+ P. Rong
* Impaired sensorimotor integration for the adjustment of phrasal prominence in ataxic dysarthria
	+ A. Hilger, J. Cole, J. Kim, C. Larson

**11:45 AM Lunch**

**1:30 PM Special Session 2**

* Effort, reward, and vigor in decision making and movement control
	+ Dr. Alaa Ahmed

**3:00 PM Session 8**

* Automating Objective Measures of Change in Speech Intelligibility
	+ J. Liss, Y. Jiao, V. Berisha, A. Lacross
* Anodal tDCS targeting left premotor/motor cortices enhances speech motor learning
	+ A. Buchwald, C. Repetti-Ludlow, H-S. Cheng
* sEMG-to-Voice AAC: Subvocal Recognition & Synthesis of Prosodic Speech
	+ J. Vojtech, M. Chan, B. Shiwani, S. Roy, J. Heaton, G. Meltzner, P. Contessa, G. De Luca, R. Patel, J. Kline

**4:00 PM – 5:50 PM Poster Session 4**

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| K. Chenausky | Using DIVA to understand the speech of minimally verbal children with autism: A preliminary analysis |
| H. Weerathunge, D. Abur, N. Enos, K. Brown, C. Stepp | Auditory-Motor Perturbations of Voice Fundamental Frequency: Effects of Feedback Delay and Amplification |
| A. Buchwald, E. Duncan | tDCS can enhance speech motor learning in AOS by strengthening cortical speech network |
| L. Kwan-Chen | Tone distortion in ataxic dysarthria associated with spinocerebellar atrophy |
| E. Sugden, J. Cleland | Ultrasound-aided versus perception-based phonetic transcription of childhood speech sound disorders |
| N. Pearl Solomon | Speech diadochokinesis in adults with traumatic brain injury: cross-sectional and longitudinal study |
| J. Vuolo | Spatial and temporal speech characteristics in children with apraxia of speech, phonological disorder, and typical speech |
| E. Vitti, J. Wambaugh | Stability of Speech Intelligibility Measures Over Repeated Sampling Times in Speakers with Acquired Apraxia of Speech |
| C. Kuo, M. Barrett, Y. Kim, J. Berry | Vowel production in three connected speech tasks by individuals with Parkinson’s disease: Preliminary findings |
| J. Whitfield, L. Sullivan, A. Fullenkamp, Z. Kriegel, S. Holdosh, A. Deemer | Tracking the costs of Clear and Loud Speech: Interactions between speech motor control and concurrent visuomotor tracking |
| K. Lehner, W. Ziegler, J. Pfab | Telediagnostic assessment of communication impairment in dysarthria: The KommPaS-tool |
| V. Martel-Sauvageau | The impact of clear speech on the spectral properties and intelligibility of fricatives-vowel sequences in speakers with Parkinson's Disease |
| S. Barlow, J. Lee, R. Custead, J. Greenwood | Orofacial and Digit Force Dynamics in Chronic MCA Ischemic Stroke |
| J. Jin, C. Baylor, K. Yorkston | What affects communicative participation across motor speech and voice disorders? |
| E. Hoffman, M. Hozan, J. Lee, J. Greenwood, S. Barlow | Orofacial and Digit Force Dynamics in Neurotypical Children |
| D. Bailey, J. Whitfield, C. Dromey, M. Speights | The Role of Mental Simulation in Speech Motor Learning |
| H-S. Cheng, C. Niziolek, A. Buchwald, T. McAllister | The Relationship between Production Variability and Auditory Acuity in Explicit Sensorimotor Learning for Speech |
| M. Eshghi, D. Salat, C. Cordella, S. Gutz, H. Ventresca, J. Green | Age-related changes in oromotor function and speech production |
| A. Neel, S. Krasilshchikova, J. Richardson, R. Arenas, L. Bennett, S. Banks, C. Bernick | Speech rate, pausing, and disfluency associated with CTE in professional fighters |
| K. Connaghan, S. Gutz, M. Eshghi, K. Nicholson, Y. Yunusova, JP. Onnela, J. Berry, J. Green | Effects of Task Repetition on Acoustic Measures of Speech Produced by Persons with Amyotrophic Lateral Sclerosis |
| K. Brown, K. Spencer | The Relationship between Speech Characteristics and Motor Subtypes of Parkinson’s Disease |
| J. Sidtis, D. Sidtis | THE VARIED ROLES OF THE CAUDATE NUCLEUS IN SPONTANEOUS SPEECH |
| L. Bouvier | The evolution of motor speech characteristics in phonetic and prosodic PPAOS |
| A. Abeyesekera, S. Adams, A. Page, M. Jog | Speech intensity response to altered intensity feedback in individuals with Parkinson’s disease |
| J. Vojtech, S. Hablani, G. Cler, C. Stepp | Integrated head-tilt & surface electromyographic cursor control for augmentative and alternative communication |
| K. Haley, K. Cunningham | ActionSC: A new way to learn with apraxia of speech |
| K. Reilly | The contribution of degraded auditory feedback to speech performance in young children with cochlear implants |

**SUNDAY, FEBRUARY 23, 2020**

**7:30 Continental Breakfast**

**8:00 AM Session 9**

* Mouthpiece Noninvasive Positive Pressure Ventilation: Effects on Speech
	+ D. Britton, E. Pullen, D. Hoit, J. Benditt
* Motor Speech Disorders in Progressive Supranuclear Palsy
	+ H. Clark
* Unpredictable speech degradation inhibits adaptation to dysarthric speech
	+ K. Lansford, S. Borrie, T. Barrett

**9:00 AM Break**

**9:15 AM Session 10**

* A link between energy metabolism and developmental stuttering
	+ H. Ming Chow, N. Boley, S. Patil, E. Garnett, S-E. Chang
* Effects of attentional focus on articulatory control in adults who stutter and its relationship to social anxiety
	+ K. Bauerly
* The Neural Circuitry Underlying the “Rhythm Effect” in Stuttering
	+ S. Frankford, S. Cai, J. Tourville, A. Nieto-Castanon, M. Masapollo, E. Heller Murray, F. Guenther

**10:15 AM Conference ends**