#### **Curriculum Vitae**

### Roozbeh Behroozmand, Ph.D.

Associate Professor Department of Speech, Language, and Hearing School of Behavioral and Brain Sciences University of Texas at Dallas

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### **Education**

2006 – 2011	Ph.D., Communication Sciences and Disorders Dissertation: Cortical Neural Processing of Auditory Feedback during Vocal Production and Control Primary Advisor: Dr. Charles R. Larson	Northwestern University, Evanston, IL
2003 – 2006	M.Sc., Biomedical Engineering Thesis: Computational Analysis of Voice Disorders: Signal Processing Approaches to Non-invasive Diagnosis of Laryngeal Disorders in Patients with Pathological Speech Primary Advisor: Dr. Farshad Almasganj	Amirkabir University of Technology, Tehran, Iran
1998 – 2003	B.Sc., Electrical Engineering	University of Tehran, Tehran, Iran

### **Academic Positions**

#### **University of Texas at Dallas**

2023 – present Associate Professor (Tenured)

Department of Speech, Language, and Hearing

School of Behavioral and Brain Sciences

#### **University of South Carolina**

2020 – 2023	Associate Professor (Tenured)
	Department of Communication Sciences and Disorders
	Arnold School of Public Health
2014 - 2020	Assistant Professor
	Department of Communication Sciences and Disorders
	Arnold School of Public Health
2014 – 2023	Affiliate Faculty
	Institute of Mind and Brain, College of Art and Sciences

#### University of Iowa School of Medicine

2011 – 2014 Post-Doctoral Research Scholar

**Human Brain Research Laboratory** 

Department of Neurosurgery, Carver College of Medicine

**Project:** Neural Bases of Speech Production and Motor Control: Insights from Invasive Electrocorticography (ECoG) and Functional Neuroimaging

Primary Advisors: Drs. Jeremy Greenlee & Matthew Howard

#### **Northwestern University**

2006 – 2011 Graduate Research Assistant

Speech Physiology Laboratory

Department of Communication Sciences and Disorders

2008 – 2011 Graduate Teaching Assistant

Department of Communication Sciences and Disorders

#### Amirkabir University of Technology

2004 – 2006 Graduate Teaching Assistant

Department of Biomedical Engineering

### **Research Interests**

Neuroscience of Speech Production and Sensorimotor Control

Speech Motor Disorders in Parkinson's Disease and Post-Stroke Aphasia

- Neurophysiology, Neuroimaging and Neurostimulation of the Human Brain
- Neurofeedback Training, Signal Processing and Computational Modeling of Speech

### **Honors and Awards**

- The Breakthrough Star Award, Office of the Vice President for Research, University of South Carolina, Columbia, SC (2023)
- **Distinguished Research Service Award**, Office of the Vice President for Research, University of South Carolina, Columbia, SC (2022)
- AHSA Grant Review and Reviewer Training Travel Award, American Speech Language Hearing Association, Rockville, MD (2018 & 2019)
- **ASHA Lessons for Success Travel Award**, American Speech Language Hearing Association, Rockville, MD (2017)
- Young Scientists Scholarship and Travel Award, Neuroinformatics Advanced Research Training Program, Marine Biological Laboratories, Woods Hole, MA (2012)
- ASHA Meritorious Poster Recognition Award, American Speech Language Hearing Association, Atlanta, GA (2012)

- **Joseph Levin Foundation Scholarship**, Advanced Doctoral Studies in Communication Sciences and Disorders, Northwestern University, Evanston, IL (2010)
- Top Student Award for Highest Academic Achievements, Department of Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran (2003–2006)

### **Professional Affiliation**

- American Speech Language Hearing Association (ASHA)
- Society for Neuroscience (SfN)
- Cognitive Neuroscience Society (CNS)

#### **Editorial Service**

2022 – present Associate Editor

Frontiers in Auditory Cognitive Neuroscience

2021 – present Associate Editor and Member of Scientific Review Committee

Motor Speech Conference 2024, San Diego, CA Motor Speech Conference 2022, Charleston, SC

2017 – present Editorial Board Member

Journal of Speech Language and Hearing Research (JSLHR) – Speech Section

### **Research Funding**

#### Current

Principal Investigator Neural Bases of Vocal Sensorimotor Impairment in Aphasia. NIH/NIDCD R01-

DC018523, Total Budget: \$3,574,905 (2021–2026)

**Co-Investigator** Aging Brain Cohort at the University of South Carolina. USC Excellence Initiative

Grant, PI: Fridriksson, Total Budget: \$4,469,030 (2019–2024)

## **Completed**

Principal Investigator Sensorimotor Processing of Auditory Feedback in Aphasia. NIH/NIDCD K01-

DC015831, Total Budget: \$693,350 (2017–2023)

**Principal Investigator** Understanding the Effects of Neuro-stimulation on Speech and Hand Motor

Function in Parkinson's Disease. USC ASPIRE Track I, Total Budget: \$15,000

(2017 - 2018)

ASPIRE-I Track-I, Total Budget: \$15,000 (2020–2023)

Co-Investigator Neural Mechanisms of Vocal Communication in the Human Brain. NIH/NIDCD

R01-DC015260, PI: Greenlee, Total Budget: \$1,660,047 (2016–2022)

Co-Investigator Speech Entrainment Treatment for Broca's Aphasia. NIH/NIDCD R21-

DC014170, PI: Fridriksson, Total Budget: \$402,875 (2015–2017)

Color Envisioned: Concepts of Color in the Blind, Colorblind, and Sighted (PI:

Rorden). USC Visiting Scholar Grant, Total Budget: \$15,000 (2018)

Faculty Mentor Southern Regional Education Board (SREB) Doctoral Dissertation Award to

Stacey Sangtian, Total Budget: \$20,000 (2021–2022)

Faculty Mentor Speech Error Detection and Sensorimotor Processing of Auditory Feedback in

Aphasia. USC SPARC Grant Awarded to Doctoral Student Stacey Sangtian, Total

Budget: \$5,000 (2020-2022)

Faculty Mentor EEG-Based Neurofeedback Training for Enhancing Motor Function in

Neurotypical Adults. USC Magellan Undergraduate Research Grant Awarded to

Emily Virag, Total Budget: \$3,000 (2020–2022)

Faculty Mentor Validation of High Definition Transcranial Direct Stimulation (HD-tDCS) over left

frontal and parietal cortex as a potential clinical method to improve motor timing deficits related with speech production and hand movement in Parkinson's disease. CAPCSD Scholarship Awarded to Doctoral Student Karim

Johari, Total Budget: \$20,000 (2018)

Faculty Mentor Effects of Neurostimulation on Speech production and Hand movement in

Parkinson's Disease. USC Arnold School of Public Health's Graduate Scholar in Aging Research Grant Awarded to Doctoral Student Karim Johari, Total Budget:

\$1,000 (2017-2018)

Faculty Mentor Effects of Neurostimulation on Speech production and Hand movement in

Parkinson's Disease. Arnold School of Public Health Webber Doctoral Scholarship Grant in Communication Disorders Research Awarded to Doctoral

Student Karim Johari, Total Budget: \$1,000 (2018)

Faculty Mentor Behavioral and Neural Bases of Speech Sensorimotor Impairment in Post-

stroke Aphasia. Arnold School of Public Health Webber Doctoral Scholarship in Communication Disorders Research Awarded to Doctoral Student Stacey

Sangtian, Total Budget: \$1,000 (2018)

Faculty Mentor Speech and Hand Movement Rehabilitation through HD-tCDS

Neurostimulation. USC Magellan Undergraduate Research Grant to Elizabeth

Thompson, Total Budget: \$3,000 (2017–2018)

Faculty Mentor Modulating Vocal Pitch Motor Control through Neurostimulation. USC

Magellan Undergraduate Research Grant to Keiko Bridwell and Caroline

Hayden, Total Budget: \$6,000 (2015–2016)

Faculty Mentor Neural and Behavioral Correlates of Planning During Vocal Motor Control.

ASHA SPARC Career Mentoring Grant Awarded to Stacey Sangtian, Total

Budget: \$1,000 (2015-2016)

### **Journal Publications (Peer-Reviewed)**

- **1. Behroozmand R**, Sarmukadam K\*, Fridriksson J. Aberrant Modulation of Broadband Neural Oscillations Reflects Vocal Sensorimotor Deficits in Post-stroke Aphasia. *Clinical Neurophysiology* (2023) Link
- 2. Sarmukadam K\*, **Behroozmand R**. Neural Oscillations Reveal Disrupted Functional Connectivity Associated with Impaired Speech Auditory Feedback Control in Post-Stroke Aphasia. *Cortex* (2023) Link
- **3.** Khoshhal Mollasaraei Z\*, **Behroozmand R**. Impairment of the Internal Forward Model and Feedback Mechanisms for Vocal Sensorimotor Control in Post-Stroke Aphasia: Evidence from Directional Responses to Altered Auditory Feedback. *Experimental Brain Research* (2023)
- 4. Friedman L, Lauber M, Behroozmand R, Fogerty D, Kunecki D, Berry-Kravis E, Klusek J. Atypical Vocal Quality in Women with the FMR1 Permutation: An Indicator of Impaired Sensorimotor Control. Experimental Brain Research (2023) Link
- **5.** Arabi A, Tarameshlu M, **Behroozmand R**, Ghelichi L. Correlation Between Auditory-perceptual Parameters and Acoustic Characteristics of Voice in Theater Actors. *Middle East Journal of Rehabilitation and Health Studies* (2023) <u>Link</u>
- 6. **Behroozmand R**, Bonilha L, Rorden C, Hickok G, Fridriksson J. Neural Correlates of Impaired Vocal Feedback Control in Post-stroke Aphasia. *Neuroimage* (2022) Link
- 7. Sarmukadam K\*, **Behroozmand R**. Aberrant Beta-band Brain Connectivity Predicts Speech Motor Planning Deficits in Post-Stroke Aphasia. *Cortex* (2022) Link
- 8. Wilmskoetter J, Roth R, McDowell K, Munsell B, Fontenot S, Andrews K, Phillip Johnson L\*, Sangtian S\*, **Behroozmand R**, Fridriksson J, Bonilha L. Semantic Categorization of Naming Responses based on Prearticulatory Electrical Brain Activity. *Journal of Clinical Neurophysiology* (2022) Link
- 9. Johari K\*, **Behroozmand R**. Neural Correlates of Speech and Limb Motor Timing Deficits Revealed by Aberrant Beta Band Desynchronization in Parkinson's Disease. *Clinical Neurophysiology* (2021) Link
- 10. Sangtian S\*, Wang Y, Fridriksson J, **Behroozmand R**. Impairment of Speech Auditory Feedback Error Detection and Motor Correction in Post-Stroke Aphasia. *Journal of Communication Disorders* (2021) Link
- 11. Wang Y, **Behroozmand R**, Phillip L\*, Bonilha L, Fridriksson J. Topological Signal Processing and Inference of Event-related potential Response. *Journal of Neuroscience Methods* (2021) Link
- 12. Miller C, **Behroozmand R**, Etler C, Nourski K, Reale R, Oya H, Kawasaki H, Greenlee J. Neural Correlates of Vocal Auditory Feedback Processing: Unique Insights from Electrocorticography Recordings in a Human Cochlear Implant User. *eNeuro* (2021) <u>Link</u>
- 13. **Behroozmand R**, Johari K\*, Bridwell K\*, Hayden C\*, Fahey D, den Ouden DB. Modulation of Vocal Pitch Control through High-Definition Transcranial Direct Current Stimulation of the Left Ventral Motor Cortex. *Experimental Brain Research* (2020) <u>Link</u>
- **14.** Johari K\*, **Behroozmand R.** Event-related Desynchronization of Alpha and Beta Band Neural Oscillations Predict Speech and Limb Motor Timing Deficits in Normal Aging. *Behavioural Brain Research* (2020) <u>Link</u>
- 15. Cardenas AR, **Behroozmand R**, Kocsis Z, Gander PE, Nourski KV, Kovach CK, Ibayashi K, Pipoly M, Kawasaki H, Howard MA, Greenlee JDW. Differential Causal Involvement of Human Auditory and Frontal Cortices in Vocal Motor Control. *bioRXiv* (2020) <u>Link</u>

- 16. Phillip Johnson L\*, Sangtian S\*, Johari K\*, **Behroozmand R**, Fridriksson J. Slowed Compensation Responses to Altered Auditory Feedback in Post-Stroke Aphasia: Implications for Speech Sensorimotor Integration. *Journal of Communication Disorders* (2020) <u>Link</u>
- 17. **Behroozmand R**, Johari K\*, Kelley R, Kapnoula E, Narayanan N, Greenlee J. Effect of Deep Brain Stimulation on Vocal Motor Control Mechanisms in Parkinson's Disease. *Parkinsonism & Related Disorders* (2019) Link
- 18. **Behroozmand R**, Johari K\*. Pathological Attenuation of the Right Prefrontal Cortex Activity Predicts Speech and Limb Motor Timing Disorder in Parkinson's Disease. *Behavioural Brain Research* (2019) Link
- 19. Johari K\*, den Ouden DB, **Behroozmand R**. Behavioral and Neural Correlates of Normal Aging Effects on Motor Preparatory Mechanisms of Speech Production and Limb Movement. *Experimental Brain Research* (2019) Link
- 20. Wilmskoetter J, Del Gaizo J, Phillip L\*, **Behroozmand R**, Gleichgerrcht E, Fridriksson J, Riley E, Bonilha L. Predicting Naming Responses Based on Pre-Articulatory Electrical Activity in Individuals with Aphasia. *Clin. Neurophys.* (2019) Link
- 21. Johari K\*, Walenski M, Reifegerste J, Ashrafi F, **Behroozmand R**, Daemi M, Ullman MT. A Dissociation between Syntactic and Lexical Processing in Parkinson's Disease. *Journal of Neurolinguistics* (2019) Link
- 22. **Behroozmand R**, Phillip L\*, Johari K\*, Bonilha L, Rorden C, Hickok G, Fridriksson J. Sensorimotor Impairment of Speech Auditory Feedback Processing in Aphasia. *Neuroimage* (2018) <u>Link</u>
- 23. **Behroozmand R**, Sangtian S\*. Neural Bases of Sensorimotor Adaptation in the Vocal Motor System. *Experimental Brain Research* (2018) <u>Link</u>
- 24. **Behroozmand R**, Johari K\*. Sensorimotor Impairment of Speech and Hand Movement Timing Processing in Parkinson's Disease. *Journal of Motor Behavior* (2018) <u>Link</u>
- 25. Johari K\*, **Behroozmand R.** Functional Dissociation of Temporal Processing Mechanisms during Speech Production and Hand Movement: An ERP Study. *Behavioural Brain Research* (2018) Link
- 26. Johari K\*, den Ouden DB, **Behroozmand R.** Effects of Aging on Temporal Predictive Mechanisms of Speech and Hand Motor Reaction Time. *Aging Clinical and Experimental Research* (2018) Link
- 27. Singh T, Phillip L\*, **Behroozmand R**, Gleichgerrcht E, Piai V, Fridriksson J, Bonilha L. Pre-articulatory electrical activity associated with correct naming in individuals with aphasia. *Brain and Language* (2018) Link
- 28. Johari K\*, **Behroozmand R**. Premotor Neural Correlates of Predictive Motor Timing for Speech Production and Hand Movement: Evidence for a Temporal Predictive Code in the Motor System. *Experimental Brain Research* (2017) Link
- 29. Johari K\*, **Behroozmand R**. Temporal predictive mechanisms modulate motor reaction time during initiation and inhibition of speech and hand movement. *Human Movement Science* (2017) <u>Link</u>
- 30. Basilakos A, Fridriksson J, Rorden C, **Behroozmand R**, Hanayik T, Naselaris T, Del Gaizo J, Breedlove J, Vandergrift WA, Bonilha L. Activity Associated with Speech Articulation Measured Through Direct Cortical Recordings. *Brain and Language* (2017) Link
- 31. **Behroozmand R**, Oya H, Nourski KV, Kawasaki H, Larson CR, Brugge JF, Howard MA, Greenlee JWD. Neural Correlates of Vocal Production and Motor Control in Human Heschl's Gyrus. *Journal of Neuroscience* (2016) <a href="Link"><u>Link</u></a>

- 32. **Behroozmand R**, Sangtian S\*, Korzyukov O, Larson CR. A Temporal Predictive Code for Voice Motor Control: Evidence from ERP and Behavioral Responses to Pitch-shifted Auditory Feedback. *Brain Research* (2016) Link
- 33. Price R, Vargas RV, **Behroozmand R**, Parkinson AL, Larson CR, Greenlee JDW, Robin DA. Dynamic Connectivity Mapping of Electrocorticographic Data using Bayesian Differential Structural Equation Modeling. *Biometrics & Biostatistics International Journal* (2016) Link
- 34. **Behroozmand R**, Shebek R, Hansen D, Oya H, Robin DA, Howard MA, Greenlee JD. Sensory-Motor Networks Involved in Speech Production and Motor Control: An fMRI Study. *Neuroimage* (2015) Link
- 35. **Behroozmand R**, Ibrahim N, Korzyukov O, Robin DA, Larson CR. Functional role of delta and theta band oscillations for auditory feedback processing during vocal pitch motor control. *Frontiers in Neuroscience* (2015) <u>Link</u>
- 36. Kingyon J, **Behroozmand R**, Kelley R, Oya H, Kawasaki H, Narayanan K, Greenlee JDW. High-gamma Band Fronto-temporal Coherence as a Measure of Functional Connectivity in Speech Motor Control. *Neuroscience* (2015) Link
- 37. **Behroozmand R**, Ibrahim N, Korzyukov O, Robin DA, Larson CR. Left-Hemisphere Activation is Associated with Enhanced Vocal Pitch Error Detection in Musicians with Absolute Pitch. *Brain and Cognition* (2014) <u>Link</u>
- 38. Korzyukov O, Tapaskar N, Pflieger ME, **Behroozmand R**, Lodhavia A, Patel S, Robin DA, Larson C. Event related potentials study of aberrations in voice control mechanisms in adults with attention deficit hyperactivity disorder. *Clinical Neurophysiology* (2014) Link
- 39. Parkinson AL, **Behroozmand R**, Ibrahim N, Korzyukov O, Larson CR, Robin DA. Effective Connectivity Associated with Auditory Error Detection in Musicians with Absolute Pitch. *Frontiers in Neuroscience* (2014) Link
- 40. Greenlee JD, **Behroozmand R**, Narayanan K, Kingyon JR, Larson CR, Oya H, Kawasaki H, Howard MA. Sensorimotor integration during human self-vocalization: Insights from invasive electrophysiology. *Journal of Acoustical Society of America (JASA)* (2013) Link
- 41. Greenlee JD, **Behroozmand R**, Jackson A, Hansen D, Larson CR, Chen F, Oya H, Kawasaki H, Chen H, Howard MA. Sensory-Motor Interaction for Vocal Pitch Monitoring in non-primary Human Auditory Cortex. *PLoS ONE* (2013) <u>Link</u>
- 42. Korzyukov O, **Behroozmand R**, Larson CR. Neuronal Mechanisms of Voice Control are Affected by the Expectancy of Externally Triggered Perturbations in Auditory Feedback. *PLoS ONE* (2012) <u>Link</u>
- 43. **Behroozmand R**, Korzyukov O, Larson CR. Opposing vs. Following Vocal Responses to Pitch-Shifted Auditory Feedback: Evidence for Different Mechanisms of Voice Pitch Control. *Journal of Acoustical Society of America (JASA)* (2012) <u>Link</u>
- 44. **Behroozmand R**, Korzyukov O, Larson CR. ERP Correlates of Pitch Error Detection in Complex Tones and Voice Feedback with Missing Fundamental. *Brain Research* (2012) Link
- 45. Korzyukov O, Karvelis L, **Behroozmand R**, Larson CR. ERP Correlates of Auditory Processing during Automatic Correction of Unexpected Alternations in Vocalization". *International Journal of Psychophysiology* (2012) Link
- **46. Behroozmand R**, Larson CR. Error-dependent Modulation of Speech-Induced Auditory Suppression for Pitch-Shifted Voice Feedback. *BMC Neuroscience* (2011) Link
- **47. Behroozmand R**, Korzyukov O, Larson CR. Effects of Voice Harmonic Complexity on ERP Responses to Pitch-Shifted Auditory Feedback. *Clinical Neurophysiology* (2011) <u>Link</u>

- **48.** Liu H, **Behroozmand R**, Bove M, Larson CR. Laryngeal Electromyographic Responses to Perturbations in Voice Pitch Auditory Feedback. *Journal of Acoustical Society of America (JASA)* (2011) Link
- 49. **Behroozmand R**, Liu H, Larson CR. Time-Dependent Neural Processing of Auditory Feedback during Voice Pitch Error Detection. *Journal of Cognitive Neuroscience* (2011) <u>Link</u>
- 50. Liu H, Meshman M, **Behroozmand R**, Larson CR. Differential Effects of Perturbation Direction and Magnitude on the Neural Processing of Voice Pitch Feedback. *Clinical Neurophysiology* (2011) <u>Link</u>
- 51. Liu H, **Behroozmand R**, Larson CR. Enhanced Neural Responses to Self-Triggered Voice Pitch Feedback Perturbations. *Neuroreport* (2010) Link
- 52. Vaziri G, Almasganj F, **Behroozmand R**. Pathological Assessment of Patients' Speech Signals using Nonlinear Dynamical Analysis. *Computers in Biology and Medicine* (2010) Link
- 53. **Behroozmand R**, Karvelis L, Liu H, Larson CR. Vocalization-Induced Enhancement of the Auditory Cortex Responsiveness during Voice F0 Feedback Perturbation. *Clinical Neurophysiology* (2009) <u>Link</u>
- 54. **Behroozmand R**, Almasganj F. Optimal Selection of Wavelet Packet-Based Features using Genetic Algorithm in Pathological Assessment of Patients' Speech Signal with Unilateral Vocal Fold Paralysis. *Computers in Biology and Medicine* (2007) <u>Link</u>
- \* Mentored Student Author (2014 present)

**PubMed** Google Scholar

### **Books and Book Chapters**

- **1. Behroozmand R**, Cortical Neural Processing of Auditory Feedback during Vocal Production and Control. Ph.D. Dissertation. ProQuest, UMI Dissertation Publishing, Ann Arbor, MI (2012)
- 2. Behroozmand R, Almasganj F, Computational Analysis of Voice Disorders: Signal Processing Approaches to Non-invasive Diagnosis of Laryngeal Diseases in Patients with Pathological Speech. LAMBERT Academic Publishing (LAP) GmbH & Co. KG Germany (2011)
- **3.** Liu H, **Behroozmand R**, Larson CR. Audio-Vocal Interactions in the Mammalian Brain. *Handbook of Mammalian Vocalization An Integrative Neuroscience Approach. Volume 19 (Chapter 9.3). pp: 393-402* (2009)

## **Journal Papers (Under Review)**

- **1.** Zhang Y\*, Sarmukadam K\*, **Behroozmand R**. Focal Attention to Auditory Feedback Enhances Speech Error Detection and Sensorimotor Control. (*under review*)
- **2.** Khoshhal Mollasaraei Z\*, **Behroozmand R**. Impairment of Feedforward and Feedback Mechanisms for Vocal Sensorimotor Control in Post-Stroke Aphasia: Evidence from Directional Responses to Altered Auditory Feedback. (*under review*)
- **3.** Smith CR, Silfies SP, Herter TM, **Behroozmand R**, Kantak SS, Stewart JC. Investigating the applicability of Fitts' Law to multi-directional, three-dimensional targeted reaching movements. *(under review)*

**4.** Arabi A, **Behroozmand R**, Ghelichi L. Telepractice Intervention in Theatre Actors with Voice Problems. *(under review)* 

## **Journal Papers (In Preparation)**

- **1.** Fitzpatrick M\*, Thompson E\*, Johari K\*, **Behroozmand R**. High-Definition Transcranial Direct Current Stimulation of the Left Ventral Motor Cortex Modulates Speech and Upper Limb Motor Reaction Time. (in preparation)
- **2. Behroozmand R**, Johari K\*, Narayanan K, Greenlee J. Modulation of Beta Band Oscillations through Deep Brain Stimulation Improves Vocal Pitch Control in Parkinson's Disease. (*in preparation*)
- **3.** Virag E\*, Wess P\*, Sarmukadam K\*, **Behroozmand R**. Neuro-feedback training effects on Modulating Beta Band Neural Oscillations for Fine Tuning of Speech and Limb Motor Reaction Time. (in preparation)

### **Conference Publications (Peer-Reviewed)**

- **1.** Wang Y, **Behroozmand R**, Philip L\*, Fridriksson J. Topology Highlights Neural Deficits of Post-Stroke Aphasia Patients. *IEEE International Symposium on Biomedical Imaging, Iowa City, IA* (2020)
- 2. Wang Y, Behroozmand R, Philip L\*, Bonilha L, Fridriksson J. Topological Signal Processing in Neuroimaging Studies. *IEEE International Symposium on Biomedical Imaging Workshops, Iowa City, IA* (2020)
- **3.** den Ouden DB, Johari K\*, Bridwell K\*, Hayden H\*, **Behroozmand R**. Modulation of the Speech Motor Control Network through High-Definition Transcranial Direct Current Stimulation. *Proceedings of the 7<sup>th</sup> International Conference on Speech Motor Control, Gronigen, the Netherlands* (2017)
- **4.** Greenlee JD, **Behroozmand R**, Nourski KV, Oya H, Kawasaki H, Howard MA. Using speech and electrocorticography to map human auditory cortex. *Proceedings of the IEEE Conference on Engineering in Medicine and Biology Society, Chicago, IL* (2014)
- **5.** Hosseini PT, Almasganj F, Emami T, **Behroozmand R**, Gharibzade S, Torabinezhad F. Local discriminant wavelet packet basis for voice pathology classification. *International Conference on Bioinformatics and Biomedical Engineering (ICBBE), Shanghai, China* (2008)
- **6. Behroozmand R**, Almasganj F, Moradi MH. Pathological Assessment of Vocal Fold Nodules and Polyp using Acoustic Perturbation and Phase Space Features. *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Toulouse, France* (2006)
- **7. Behroozmand R**, Almasganj F, Moradi MH. Application of Fractal Dimension and Phase Space Nonlinear Dynamics in Pathological Diagnosis of Vocal Fold Paralysis. *Proceedings of Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran* (2006)
- **8. Behroozmand R**, Almasganj F. Genetic-Based Optimization of Energy and Entropy Features for Pathological Assessment of Vocal Fold Paralysis. *Proceedings of the International CSI Computer Conference (CSICC)*, *Tehran, Iran* (2006)

<sup>\*</sup> Mentored Student Author (2014 – present)

<sup>\*</sup> Mentored Student Author (2014 - present)

- 9. Behroozmand R, Almasganj F. Comparison of Neural Networks and Support Vector Machines Applied to Optimized Features Extracted from Patients' Speech Signal for Classification of Vocal Fold Inflammation. Proceedings of IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Athens, Greece (2005)
- **10. Behroozmand R**, Almasganj F. Optimal Feature Selection of Patients' Speech Signal using Genetic Algorithm for Classification of Vocal Fold Edema, Nodules and Polyp. *Proceedings of International Conference on speech and computer (SPECOM)*, *Patras, Greece* (2005)
- **11. Behroozmand R**, Almasganj F. Application of Teager Nonlinear Energy Operator for Pathological Assessment of Patients' Speech Signal with Vocal Fold Lesion. *Proceedings of Iranian Conference on Biomedical Engineering (ICBME)*, *Tehran*, *Iran* (2005)
- **12. Behroozmand R**, Almasganj F, Moradi MH. Comparison of Wavelet Transform and Modified Cepstrum Method in Pitch Frequency Estimation of Patients` Speech Signal with Laryngeal Disorder. *Proceedings of the International Conference on Information and Knowledge Technology (IKT), Tehran, Iran (2005)*

### **Conference Presentations (Peer-Reviewed)**

- 1. Khoshhal Mollasaraei Z\*, Behroozmand R. Impairment of Feedforward and Feedback Mechanisms for Vocal Sensorimotor Control in Post-Stroke Aphasia: Evidence from Directional Responses to Altered Auditory Feedback. American Speech Language Hearing Association (ASHA) Convention, Boston, MA (2023)
- 2. Sarmukadam K\*, Behroozmand R. Altered EEG Functional Connectivity and Impaired Speech Control in Post-Stroke Aphasia, Annual Meeting of Society for Neurobiology of Language, Marsielle, France (2023)
- 3. Zhang Y\*, Sarmukadam K\*, Behroozmand R. The Effects of Focal Attention on Speech Auditory Feedback Error Detection and Motor Control. BU Motor Speech Conference, Boston, MA (2023)

  "Won Best Poster Award from BU Motor Speech Conference"
- **4.** Smith CR, Silfies SP, **Behroozmand R**, Kantak S, Stewart JC. Investigating the Effect of Attentional Focus Instructions on Learning a Whole-Arm Sequence Task. *North American Society for Psychology in Sport and Physical Activity (NASPSPA), Toronto, Canada* (2023)
- **5. Behroozmand R**, Sarmukadam K\*, Fridriksson J. Neural oscillatory correlates of vocal sensorimotor impairment in post-stroke aphasia. *Annual Meeting of Society for Neuroscience (SfN), San Diego, CA* (2022)
- **6.** Sarmukadam K\*, **Behroozmand R**. The relationship between resting-state brain oscillations and language impairment in post-stroke aphasia: A pilot study. *University of South Carolina Discover USC Conference, Columbia, SC* (2022)
- 7. Zhang Y\*, Behroozmand R, Zhang J, Wang Y. Association between the Beta Band Neural Response and the Behavioral Performance in Aphasic and Neurologically Intact Individuals. *University of South Carolina Discover USC Conference, Columbia, SC* (2022)
- **8.** Virag E\*, Wess P\*, **Behroozmand R**. Effect of EEG-based Neurofeedback Training on Improving Speech and Limb Motor Reaction Time. *University of South Carolina Discover USC Conference, Columbia, SC* (2022)

<sup>\*</sup> Mentored Student Author (2014 - present)

- **9.** Smith CR, Silfies SP, Herter T, **Behroozmand R**, Stewart JC. Investigating the Applicability of Fitts' Law to Multi-Directional, Three-Dimensional Targeted Reaching Movements. *University of South Carolina Discover USC Conference*, Columbia, SC (2022)
- **10.** Friedman L, Lauber M, **Behroozmand R**, Fogerty D, Jessica Klusek. Vocal Quality in Women with the FMR1 Premutation. *National Fragile X Foundation Conference, San Diego CA* (2022).
- **11. Behroozmand R**, Zhang Y\*, Wang Y, Fridriksson J. Impairment of Neural Oscillatory Mechanisms of Speech Motor Planning in Aphasia. *Annual Meeting of the Academy of Aphasia* (2021)
- **12.** Gill A\*, Johari \*K, Fitzpatrick M\*, Thompson E\*, den Ouden DB, **Behroozmand R**. Improving Speech and Upper Limb Motor Reaction Times through High-definition Transcranial Direct Current Stimulation of the Left Ventral Motor Cortex. *Brain Stimulation Conference, Charleson, SC* (2021)
- **13.** Sangtian S\*, Wang Y, Fridriksson J, **Behroozmand R**. Impairment of Speech Auditory Feedback Error Detection in People with Post-Stroke Aphasia. *American Speech Language Hearing Association (ASHA) Convention* (2021)
- **14.** Sangtian S\*, Wang Y, Fridriksson J, **Behroozmand R**. Impairment of Speech Auditory Feedback Error Detection and Motor Correction in Post-Stroke Aphasia. *BU Motor Speech Conference* (2021)
- **15.** Sangtian S\*, Wang Y, Fridriksson J, **Behroozmand R**. Impairment of Speech Auditory Feedback Error Detection and Motor Correction in Post-Stroke Aphasia. *University of South Carolina Discover USC Conference, Columbia, SC* (2021)
- **16.** Gill A\*, **Behroozmand R**. Evaluating Clinical Applications of Neurostimulation as a Treatment of Disorder through Analysis of Speech and EEG Data. *University of South Carolina Discover USC Conference, Columbia, SC* (2021)
- **17. Behroozmand R.** Speech Sensorimotor Impairment in Aphasia and the Role of Dorsal Stream Network, *Motor Speech Conference, Santa Barbara, CA* (2020)
- **18. Behroozmand R**, Bonilha L, Rorden C, Hickok G, Fridriksson J. Impaired Efference Copy Mechanisms of Speech in Post-Stroke Aphasia and the Role of Dorsal Stream Network. *International Seminar on Speech Production* (2020)
- **19.** Sangtian S\*, Fridriksson J, **Behroozmand R**. Impairment of Speech Auditory Feedback Error Detection and Motor Correction in Post-Stroke Aphasia. *Society for the Neurobiology of Language Conference* (2020)
- **20. Behroozmand R.** Speech Sensorimotor Deficits in Post-Stroke Aphasia and the Role of Dorsal Stream Network. American Speech and Hearing Association Technical Research Session on Language Disorders in Adults. *American Speech Language Hearing Association (ASHA) Convention, Orlando, FL* (2019)
- 21. Johari K\*, Behroozmand R. Neural Correlates of Impaired Speech and Hand Motor Timing Processing in Parkinson's Disease. IMB Conference on Executive Function in Mind and Brain, *University of South Carolina, Columbia, SC* (2019)
- **22.** Sangtian S\*, **Behroozmand R**. Sensorimotor Impairment of Speech Production and Motor Control in Post-Stroke Aphasia: Evidence from Behavioral and Neurophysiological Biomarkers. IMB Conference on Executive Function in Mind and Brain, *University of South Carolina*, *Columbia*, *SC* (2019)
- 23. Sangtian S\*, Miller J\*, Pang C\*, Reagor J\*, Behroozmand R. Neural Mechanisms of Speech Sensorimotor Impairment in Post-Stroke Aphasia. *University of South Carolina Neuroscience Community Retreat, Columbia, SC* (2019)

- **24.** Miller J\*, Pang C\*, Reagor J\*, **Behroozmand R**. Neural Mechanisms of Speech Sensorimotor Impairment in Post-Stroke Aphasia. *University of South Carolina Discovery Day, Columbia, SC* (2019)
- **25.** Sangtian S\*, **Behroozmand R**, Neural Mechanisms of Speech Sensorimotor Impairment in Post-Stroke Aphasia, *Department Communication Disorders Conference, University of South Carolina, Columbia, SC* (2019)
- **26.** Phillip L\*, **Behroozmand R**, Bonilha L, Rorden C, Hickok G, Fridriksson J. Behavioral and neurophysiological correlates of sensorimotor impairment in aphasia. Invited Research Talk at the Center for the Study of Aphasia Recovery (C-STAR) Lecture Series, *University of South Carolina, Columbia, SC* (2019)
- 27. Stofik N\*, Behroozmand R, Jamshidi P. Neurofeedback-based reinforcement learning game design for improving speech and limb motor function. *University of South Carolina Discovery Day, Columbia, SC* (2019)
- **28.** Ramirez-Cardenas A, **Behroozmand R**, Gander PE, Kovach C, Kelley R, Nourski K, Oya H, Kawasaki H, Howard M, Greenlee JG. Speaking-Induced Modulation of Multi and Single Unit Neuronal Activities in Human Heschl's Gyrus. *49<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Chicago, IL* (2019)
- **29. Behroozmand R.** Effect of STN-DBS on Sensorimotor Integration Mechanisms of Voice Motor Control in Parkinson's Disease. *48<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), San Diego, CA* (2018)
- **30. Behroozmand R**, Phillip L\*, Johari K\*, Bonilha L, Rorden C, Hickok G, Fridriksson J. Sensorimotor Impairment of Speech Production and Motor Control in Post-Stroke Aphasia: Evidence from Behavioral and Neurophysiological Biomarkers. *Motor Speech Conference, Savannah, GA* (2018)
- **31. Behroozmand R**, Sangtian S\*, Phillip L\*, Johari K\*, Bonilha L, Rorden C, Hickok G, Fridriksson J. Brain Lesion Associated with Impaired Sensorimotor Processing of Speech Auditory Feedback in Aphasia. *Neuroscience Community Retreat, University of South Carolina, Columbia, SC* (2018)
- **32.** Johari K\*, **Behroozmand R.** Neural Correlates of Impaired Speech and Hand Motor Timing Processing in Parkinson's Disease. 48<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), San Diego, CA (2018)
- **33.** Johari K\*, **Behroozmand R**. Age-related Changes in Temporal Processing Mechanisms of Speech Production and Hand Movement: An ERP Study. *Cognitive Aging Conference, Georgia Tech University, Atlanta, GA* (2018)
- **34.** Johari K\*, **Behroozmand R**. Cathodal Stimulation Improves Motor Timing Deficits in Parkinson's Disease during Speech Production and Hand Movements. *University of South Carolina Discovery Day, Columbia, SC* (2018)
- **35.** Hyatt K\*, Sovde N\*, McDuffie C\*, Johari K\*, **Behroozmand R**. Effect of Altered Auditory Feedback on Sensorimotor Deficits in Aphasic Individuals. *University of South Carolina Discovery Day, Columbia, SC* (2018)
- **36.** Fitzpatrick M\*, Thompson E\*, Johari K\*, **Behroozmand R**. Effects of high definition transcranial direct current stimulation (HD-tDCS) on motor reaction time during speech production and hand movement. *University of South Carolina Discovery Day, Columbia, SC* (2018)
- **37.** Phillip L\*, **Behroozmand R**, Fridriksson J. Speech Compensation Behavior for Unexpected Errors in Aphasia is Related to Language Performance Beyond Repetition Skill. 10<sup>th</sup> Annual Meeting of Society for the Neurobiology of Language (SNL), Quebec City, Canada (2018)
- **38.** den Ouden DB, Fahey D, McDonald T, Rocktashel J\*, **Behroozmand R**. Effects of HD-tDCS Current Intensity on Vocal Pitch Motor Control. 10<sup>th</sup> Annual Meeting of Society for the Neurobiology of Language (SNL), Quebec City, Canada (2018)

- **39.** Wilmskoetter J, Delgaizo J, Phillip L, **Behroozmand R**, Gleichgerrcht Z, Fridriksson J, Bonilha L. Predicting Naming Responses Based on Pre-Articulatory Electrical Activity in Individuals with Aphasia. *10<sup>th</sup> Annual Meeting of Society for the Neurobiology of Language (SNL), Quebec City, Canada* (2018)
- **40. Behroozmand R**, Johari K\*, Herath P, Greenlee JG. Neural Correlates of Impaired Motor Timing Processing during Speech Production and Hand Movement in Parkinson's disease. *47<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Washington, DC* (2017)
- **41. Behroozmand R**, Phillip L\*, Johari K\*, Bonilha L, Rorden C, Hickok G, Fridriksson J. Brain Lesion Associated with Impaired Sensorimotor Processing of Speech Auditory Feedback in Aphasia. *9<sup>th</sup> Annual Meeting of Society for the Neurobiology of Language (SNL), Baltimore, MD* (2017)
- **42.** den Ouden DB, Johari K\*, Bridwell K\*, Hayden C\*, **Behroozmand R**. Modulation of the Speech Motor Control Network through High-Definition Transcranial Direct Current Stimulation. *7<sup>th</sup> International Conference on Speech Motor Control, Groningen, the Netherlands* (2017)
- **43.** Johari K\*, Reifegerste J, Walenski M, Ashrafi F, **Behroozmand R**, Ullman M. Language impairment and improvement in Parkinson's disease: what, when, and why. *9<sup>th</sup> Annual Meeting of Society for the Neurobiology of Language (SNL), Baltimore, MD* (2017)
- **44.** Reifegerste J, Johari K\*, Walenski M, Ashrafi B, **Behroozmand R**, Ullman M. A Comprehensive Examination of Language in Parkinson's Disease: Evidence from Syntax, Morphology, and Lexical Processing. *24<sup>th</sup> Annual Meeting of Cognitive Neuroscience Society (CNS), San Francisco, CA* (2017)
- **45. Behroozmand R.** Neural Bases of Impaired Sensorimotor Integration in the Human Speech Production System. *Neuroscience Community Retreat, University of South Carolina, Columbia, SC* (2017)
- **46.** Hurst E\*, Johnson M\*, Neal S\*, Johari K\*, Herath P, **Behroozmand R**. Neurobasis of Impaired Voice Motor Control in Parkinson's Disease. *University of South Carolina Discovery Day, Columbia, SC* (2017)
- **47.** Johari K\*, Herath P, **Behroozmand R**. Neural correlates of impaired temporal processing before initiation and inhibition of speech production and hand movement: Evidence from Parkinson's disease. *University of South Carolina Discovery Day, Columbia, SC* (2017)
- **48. Behroozmand R.** Effects of Planning and Preparation on Behavioral and ERP Correlates of Speech Motor Control. *Motor Speech Conference, New Port Beach, CA* (2016)
- **49. Behroozmand R**, Sangtian S\*. Neural Basis of Sensorimotor adaptation in the Speech Production System. *American Speech Language Hearing Association (ASHA) Conference, Philadelphia, PA* (2016)
- **50. Behroozmand R**, Herath P, Johari K\*, Kelley R, Kapnoula, Bryant K, Narayanan N, Greenlee JDW. Effects of STN deep brain stimulation on voice motor control in Parkinson's disease. *Annual Meeting of Society for Neuroscience (SfN),San Diego, CA* (2016)
- **51. Behroozmand R**, Herath P, Johari K\*, Kelley R, Kapnoula, Bryant K, Narayanan N, Greenlee JDW. Effects of STN deep brain stimulation on voice motor control in Parkinson's disease. *University of South Carolina Neuroscience Retreat, Columbia, SC* (2016)
- **52.** Bridwell K\*, Hayden C\*, **Behroozmand R**, den Ouden DB. Modulating Vocal Pitch Motor Control through Neurostimulation. *University of South Carolina Discovery Day, Columbia, SC* (2016)
- **53.** Rogers V\*, Juitt C\*, Sangtian S\*, **Behroozmand R**. Behavioral and Neurophysiological Correlates of Vocal Motor Learning during Altered Auditory Feedback. *University of South Carolina COMD Annual Research Festival, Columbia, SC* (2016)

- **54. Behroozmand R**, Sangtian S\*, Korzyukov O, Larson CR. A Temporal Predictive Code for Voice Motor Control: Evidence from ERP and Behavioral Responses to Pitch-shifted Auditory Feedback. *45<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Chicago, IL* (2015)
- **55. Behroozmand R**, Ibrahim N, Korzyukov O, Robin DA, Larson CR. Functional Role of Delta and Theta Band Oscillations for Auditory Feedback Processing during Vocal Pitch Motor Control. *22<sup>nd</sup> Annual Meeting of Cognitive Neuroscience Society (CNS), San Francisco, CA* (2015)
- **56.** Bridwell K\*, Hayden C\*, **Behroozmand R**, den Ouden DB. Modulating Vocal Pitch Motor Control through Neurostimulation. *University of South Carolina Discovery Day, Columbia, SC* (2015)
- **57. Behroozmand R**, Ibrahim N, Korzyukov O, Larson CR. Distinct Roles of Induced and Evoked Cortical Oscillations for Speech Motor Control. *44<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Washington, DC* (2014)
- **58. Behroozmand R**, Greenlee JD, Oya H, Kawasaki H, Howard MA. Neural Coding of Pitch in Human Auditory Cortex: Evidence from Intracranial ECoG Recordings. *44*<sup>th</sup> *Annual Meeting of Society for Neuroscience (SfN), Washington, DC* (2014)
- **59. Behroozmand R**, Greenlee JD, Oya H, Kawasaki H, Howard MA. Neural Coding of Pitch in Human Auditory Cortex: Evidence from Intracranial ECoG Recordings. *Tucker-Davis Symposium on Advances and Perspectives in Auditory Neurophysiology (APAN), Washington, DC* (2014)
- **60. Behroozmand R**, Greenlee JD, Larson CR, Nourski KV, Oya H, Kawasaki H, Howard MA, Brugge JF. Distinct Roles of Anterolateral and Posteromedial Heschl's Gyrus in Coding Human Voice Fundamental Frequency. *43*<sup>rd</sup> *Annual Meeting of Society for Neuroscience (SfN), San Diego, CA* (2013)
- **61. Behroozmand R**, Greenlee JD, Larson CR, Nourski KV, Oya H, Kawasaki H, Howard MA, Brugge JF. Distinct Roles of Anterolateral and Posteromedial Heschl's Gyrus in Coding Human Voice Fundamental Frequency. *Tucker-Davis Symposium on Advances and Perspectives in Auditory Neurophysiology (APAN), San Diego, CA* (2013)
- **62. Behroozmand R**, Greenlee JD, Hansen D, Larson CR, Chen H, Oya H, Kawasaki H, Howard MA. High Gamma Oscillations Reveal Cortical Auditory Processing of Pitch Perturbation in Voice Feedback. *42<sup>nd</sup> Annual Meeting of Society for Neuroscience (SfN), New Orleans, LA* (2012)
- **63. Behroozmand R**. Greenlee JD, Hansen D, Larson CR, Chen H, Oya H, Kawasaki H, Howard MA. High Gamma Oscillations Reveal Cortical Auditory Processing of Pitch Perturbation in Voice Feedback. *Tucker-Davis Symposium on Advances and Perspectives in Auditory Neurophysiology (APAN), New Orleans, LA (2012)*
- **64.** Korzyukov O, Sattler L, **Behroozmand R**, Larson CR. Stimulus direction predictability dampens auditory neural responses to pitch-shifted voice feedback. *162<sup>nd</sup> Meeting of the Acoustical Society of America (ASA), San Diego, CA* (2011)
- **65. Behroozmand R**, Larson CR. Motor-induced suppression of auditory neural responses to pitch-shifted voice feedback. *161*<sup>st</sup> *Meeting of the Acoustical Society of America (ASA), Seattle, WA* (2011)
- **66. Behroozmand R**, Korzyukov O, Larson CR. Spectral Cues for Mismatch Detection in Voice Pitch Auditory Feedback. *34<sup>th</sup> Mid-winter Meeting of the Association for Research in Otolaryngology, Baltimore (ARO), MD* (2011)
- **67. Behroozmand R**, Korzyukov O, Larson CR. Cortical neural mechanisms of mismatch detection in self-voice auditory feedback. *40<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), San Diego, CA* (2010)

- **68. Behroozmand R**, Larson CR. Vocal Pitch Regulation Depends on the Baseline Voice F0 Feedback: An ERP Study for Investigating the Role of Auditory Feedback for Voice Pitch Error Correction. *159*<sup>th</sup> *Meeting of the Acoustical Society of America (ASA), Baltimore, MD* (2010)
- **69. Behroozmand R**, Larson CR. Modulation of Vocal Responses to Auditory Feedback Pitch Perturbation as a Result of Changes in the Baseline Pitch Frequency. *International Conference on Voice Physiology and Biomechanics (ICVPB), Madison, WI* (2010)
- **70. Behroozmand R**, Larson CR. Neural Correlates of Auditory Feedback Processing for Voice Pitch Control in Humans. *39<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Chicago, IL* (2009)
- **71.** Greenlee JD, Chen F, **Behroozmand R**, Larson CR, Oya H, Kawasaki H, Chen H, Howard MA. Processing of Self-vocalization in Human Auditory Cortex on Superior Temporal Gyrus. *39<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN)*, Chicago, IL (2009)
- **72.** Liu H, **Behroozmand R**, Larson CR. Predictability of Self-initiated Stimulation Modulates Auditory Event-Related Potentials. *39<sup>th</sup> Annual Meeting of Society for Neuroscience (SfN), Chicago, IL* (2009)
- **73. Behroozmand R**, Larson CR. Effect of Stimulus Onset Delay on Auditory Cortex Neural Responses to Voice Pitch Feedback Perturbation. *157<sup>th</sup> Meeting of the Acoustical Society of America (ASA), Portland, OR* (2009)
- **74. Behroozmand R**, Karvelis L, Liu H, Larson CR. Modulation of Middle and Long-Latency Cortical Potentials During Pitch-Shifted Auditory Feedback Perturbation. *156<sup>th</sup> Meeting of the Acoustical Society of America (ASA), Miami, FL* (2008)
- **75. Behroozmand R**, Liu H, Larson CR. Neural Representation of Pitch-Shifted Voice Feedback at N100 and P200 Components: an ERP Study. *154<sup>th</sup> Meeting of the Acoustical Society of America (ASA), New Orleans, LA* (2007)

#### **Invited Presentations**

- **1. Behroozmand R.** Neural Bases of Impaired Speech Production and Auditory Feedback Control in Post-stroke Aphasia. *University of Texas at Dallas, Dallas, TX* (2023)
- **2. Behroozmand R.** Neural Correlates of Impaired Vocal Feedback Control in Post-Stroke Aphasia. *University of California at Irvine Center for Hearing Research, Irvine, CA* (2022)
- **3. Behroozmand R.** Neural Bases of Impaired Speech Production in Post-stroke Aphasia. *Medical University of South Carolina (MUSC) COBRE Stroke Recovery Research Group, Charleston, SC* (2022)
- **4. Behroozmand R.**, Neural Bases of Impaired Speech Production in Post-stroke Aphasia. *Neurology Grand Rounds at University of Arkansas Medical School, Little Rock, AR* (2022)
- **5. Behroozmand R.** Neural Impairment of Speech Sensorimotor Integration in Post-stroke Aphasia. *University of Houston, Houston, TX* (2022)
- **6. Behroozmand R.**, Neuroscience of Speech Production and Motor Control. *University of South Carolina Neuroscience Research Blitz, Columbia, SC* (2022)
- **7. Behroozmand R.** Sensorimotor impairment of speech auditory feedback processing in aphasia and the role of dorsal stream network. *NYU CSD Colloquium, New York, NY* (2020)

<sup>\*</sup> Mentored Student Author (2014 – present)

- **8. Behroozmand R.** Sensory-Motor Impairment of Speech Auditory Feedback Processing in Post-Stroke Aphasia and the Role of Dorsal Stream Network. *University of Texas at Dallas, Dallas, TX* (2020)
- 9. Behroozmand R. Sensorimotor Impairment of Speech Auditory Feedback Processing in Post-Stroke Aphasia. Cognitive Neuroscience Society (CNS) Satellite Symposium: Neural bases of speech production. *University of California San Francisco (UCSF)*, San Francisco, CA (2019)
- **10. Behroozmand R**. Sensorimotor Impairment of Speech Auditory Feedback Processing in Aphasia: Evidence from Behavioral, Neurophysiological, and Neuroimaging Data. Department of Communication Sciences and Disorders. *University of Pittsburgh, Pittsburgh, PA* (2019)
- **11. Behroozmand R**. Sensorimotor Impairment of Speech Auditory Feedback in Aphasia. American Speech and Hearing Association Special Session on Speech and Language Science: Revolutionary Learning, Evolutionary Practice. *American Speech and Hearing Association (ASHA) Convention, Boston, MA* (2018)
- **12. Behroozmand R**. Behavioral and Neural Bases of Speech Sensorimotor Impairment in Aphasia. Invited Research Talk at the Center for the Study of Aphasia Recovery (C-STAR) Lecture Series, *University of South Carolina, Columbia, SC* (2017)
- **13. Behroozmand R**. Neural bases of temporal processing and sensory-motor integration in the human speech production system. Invited Research Talk at the Institute for Mind and Brain Colloquium Series, *University of South Carolina, Columbia, SC* (2017)
- **14. Behroozmand R**. Modulation of Neural Responses to Auditory Feedback Perturbation during Speech Motor Planning. Invited Research Talk at American Speech Language Hearing Association Seminar on "Modulation of Sensory Systems before and during Speech Production: Typical and Disordered Speech". *American Speech Language Hearing Association Convention, Philadelphia, PA* (2016)
- **15. Behroozmand R.** Functional Role of Delta and Theta Band Oscillations for Auditory Feedback Processing during Vocal Pitch Motor Control. *Cognitive Neuroscience Society (CNS) Satellite Symposium on Neural Bases of Speech Production, University of California at San Francisco (UCSF), San Francisco, CA (2015)*
- **16. Behroozmand R.** Neural Basis of Speech Motor Control Disorders in Patients with Parkinson's Disease. *Murray Center for Research on Parkinson's Disease and Movement Disorders. Department of Neurology. Medical University of South Carolina (MUSC), Charleston, SC (2015)*
- **17. Behroozmand R.** Neural Mechanisms of Speech Production and Motor Control. Invited Speaker at *Hard Data Cafe. Department of Psychology. University of South Carolina, Columbia, SC* (2015)
- **18. Behroozmand R.** Greenlee JD, Larson CR, Nourski KV, Oya H, Kawasaki H, Howard MA, Brugge JF. Neural Correlates of Vocal Production and Motor Control in Primary and Non-primary Human Auditory Cortex. Acoustical Society of America (ASA) Satellite Symposium on Neural bases of speech production, University of California at San Francisco (UCSF), San Francisco, CA (2013)

# **Guest Lectures/Seminars**

- **1. Behroozmand R.** Neuroanatomy and Neurophysiology of Speech Production. *Guest Lecture at University of South Carolina COMD Course on Speech Science (COMD-745), Columbia, SC* (2022)
- **2. Behroozmand R.** Academic Job Interviews. *Guest Speaker at COMD PhD/Postdoc ProSeminar, COMD Department, University of South Carolina, Columbia, SC* (2021)

- **3. Behroozmand R.** How to Prepare your NIH Biosketch. *Guest Speaker at COMD PhD/Postdoc ProSeminar, COMD Department, University of South Carolina, Columbia, SC* (2020)
- **4. Behroozmand R.** Lab Management Methods and Administration. *Guest Speaker at COMD PhD/Postdoc ProSeminar, COMD Department, University of South Carolina, Columbia, SC* (2019)
- **5. Behroozmand R.** Mechanisms of Speech Production and Motor Control. *Guest Lecture at University of South Carolina COMD Course on Normal Basis of Speech Production (COMD-822), Columbia, SC* (2018)
- **6. Behroozmand R.** Mechanisms of Speech Production and Motor Control. *Guest Lecture at University of South Carolina COMD Course on Normal Basis of Speech Production (COMD-822), Columbia, SC* (2017)
- **7. Behroozmand R.** Mechanisms of Speech Production and Motor Control. *Guest Lecture at University of South Carolina Program on Carolina Master Scholars (CMS), Columbia, SC* (2017)
- **8. Behroozmand R.** Behavioral and Functional Mechanisms of Speech Production and Motor Control. *Guest Lecture at University of South Carolina COMD Course on Normal Basis of Speech Production (COMD-822), Columbia, SC* (2016)
- **9. Behroozmand R.** Mechanisms of Speech Production and Motor Control. *Guest Lecture at University of South Carolina Program on Carolina Master Scholars (CMS), Columbia, SC* (2016)
- **10. Behroozmand R.** Neurological Disorders and their Influence on Speech Motor Control Mechanisms. *Guest Lecture at Neurogenic Specialization Group. COMD Department, University of South Carolina, Columbia, SC* (2015)
- **11. Behroozmand R**. Neurological Mechanisms of Speech Motor Control. *Guest Lecture at Neurogenic Specialization Group. COMD Department, University of South Carolina, Columbia, SC* (2015)

### **Teaching Experience**

#### **University of South Carolina**

**COMD-820:** Doctoral Seminar on Advanced Speech Science

COMD-800: Research Seminar in Speech and Language Pathology

COMD-790: Introduction to Research Methods in Speech Pathology and Audiology

**COMD-501:** Anatomy and Physiology of the Speech and Hearing Mechanisms

**COMD-408:** Directed Study in Speech Language Pathology

### **Teaching Assistantship**

#### **Northwestern University**

CSD-404: Experimental Design and Statistics in Communication Sciences and Disorders

CSD-301: Anatomy and Physiology of Vocal Mechanisms

CSD-307: Acoustic Phonetics

**CSD-108:** Communication Disorders

#### Amirkabir University of Technology

**BME-780:** Neural Networks **BME-750:** Microprocessors

# **Research Supervision/Mentorship**

Post-Doct	oral Mentorship	
	Kimaya Sarmukadam (COMD) – Primary Advisor	2021 – 2023
	Heather Kabakoff (NYU) – Consultant & Sponsor of F32 Grant Proposal	2022 – 2023
	(Primary Advisor: Adeen Flinker), Proposal Title: Cortical and subcortical underpinnings of typical and dysarthric speech.	
Doctoral S	Student Mentorship	
	Zeinab Khoshhal Mollasaraei (COMD) – Primary Advisor	2022 – 2023
	Yilun Zhang (COMD) – Primary Advisor	2021 –
	Stacey Sangtian (COMD) – Primary Advisor	2018 – 2022
	Lorelei Phillip (COMD) – Co-Adviser (Primary Advisor: Julius Fridriksson)	2016 – 2019
	Karim Johari (COMD) – Primary Advisor	2015 – 2019
Doctoral I	Dissertation Committee Chair	
	Stacey Sangtian (COMD)	2020 – 2022
	Dissertation: Behavioral and Neurophysiological Correlates of Speech Sensorimotor Error Processing in Post-Stroke Aphasia.	
	Karim Johari (COMD)	2017 – 2019
	Dissertation: Behavioral and Neural Correlates of Aging Effects on Temporal Predictive Mechanisms during Speech Production and Limb Movement.	
Doctoral I	Dissertation Committee Member	
	Charles Smith (EXSC) – Committee Chair: Jill Stewart	2021 – 2022
	Dissertation: Using a Multi-Direction Reaching Approach to Investigate Fitts'	
	Law and the Effect of Attentional Focus on Motor Learning.	
	Sirvan Savare (Iran University of Medical Sciences)	2021 – 2022
	Committee Chairs: Farhad Torabinejad and Arezoo Saffarian	
	Dissertation: Effect of Auditory Working Memory Training on Voice and Auditory-	
	Vocal Integration in Individuals with Primary Muscle Tension Dysphonia.	
	Chuanji Gao (PSYC) – Committee Chair: Jessica Green	2018 – 2020
	Dissertation: The Behavioral and Neural Effects of Audiovisual Affective Processing.	
	Spencer McAdams (PSYC) – Committee Chair: Svetlana Shinkareva	2018 – 2019
	Dissertation: Sound-evoked activations of visual cortex and the principles of multisensory integration.	

[	Lorelei Phillip (COMD) – Committee Chair: Julius Fridriksson  Dissertation: Behavioral and Neurophysiological Correlates of Speech  Sensorimotor Impairment in Aphasia.	2017 – 2018
Doctoral Compre	hensive Exam Committee Chair	
S	Stacey Sangtian (COMD)	2018 – 2020
	Comprehensive Exam Project: Impairment of Speech Auditory Feedback Error Detection and Motor Correction in Post-Stroke Aphasia.	
ŀ	Karim Johari (COMD)	2015 – 2017
	Comprehensive Exam Project: Understanding the Temporal Processing Mechanisms of Speech Production and Hand Movement.	
Doctoral Compre	hensive Exam Committee Member	
S	Samaneh Nemati (COMD) – Committee Chair: Julius Fridriksson	2023
	Comprehensive Exam Project: Disrupted Functional and Structural Connectivity n Post-stroke Aphasia & Contribution of ECoG to Language Mapping	
(	Charles Smith (EXSC) — Committee Chair: Jill Stewart	2020 – 2022
(	Comprehensive Exam Project: Applied Human Biomechanics.	
(	Chuanji Gao (PSYC) – Committee Chair: Jessica Green	2017 – 2018
	Comprehensive Exam Project: The Nature of Audiovisual Affective Processing: A Review of 20 Years of Research.	
S	Spencer McAdams (PSYC) – Committee Chair: Svetlana Shinkareva	2017 – 2018
ι	Comprehensive Exam Project: Sound-Evoked Activations of Occipital Cortex: Unimodal Auditory-Evoked Activations Follow the Principle of Inverse Effectiveness.	
l	Lorelei Phillip (COMD) – Committee Chair: Julius Fridriksson	2016 – 2017
(	Comprehensive Exam Project: None (Written Exam)	
Doctoral Qualifyi	ing Exam Committee Chair	
7	Zeinab Khoshhal Mollasaraei (COMD)	2022
١	filun Zhang (COMD)	2021
S	Stacey Sangtian (COMD)	2018
ŀ	Karim Johari (COMD)	2015
Doctoral Research Project Supervision		
	Zeinab Khoshhal Mollasaraei (COMD) Primary Advisor: Roozbeh Behroozmand	2022 – 2023
	Project: Investigating the Effects of Pitch and Formant Perturbations in the Auditory Feedback on Speech Sensorimotor Control in Post-Stroke Aphasia	
١	filun Zhang (COMD) – Primary Advisor: Roozbeh Behroozmand	2021 –
	Project: Neurobiological Mechanisms of Speech Motor Planning and Control in ndividuals with Post-stroke Aphasia	

	Stacey Sangtian (COMD) – Primary Advisor: Roozbeh Behroozmand	2018 – 2022
	Project: Speech Sensorimotor Error Processing in Post-Stroke Aphasia.	
	Sun Yuxiang (CSE) – Primary Advisor: Pooyan Jamshidi	2018 – 2019
	Project: EEG-Based Neurofeedback Training for Speech and Limb Motor Disorder Treatment in Parkinson's Disease.	
	Danielle Fahey (LING) – Primary Advisor: Dirk den Ouden	2017 – 2019
	Project: Neurophysiological correlates of lexical overlap of diverse bilinguals.	
	Lorelei Phillip (COMD) – Primary Advisor: Julius Fridriksson	2016 – 2019
	Project: Impaired Sensorimotor Mechanisms of Speech in Post-Stroke Aphasia.	
	Janelle Rocktashel (EXSC) – Primary Advisor: Jill Stewart	2016
	Project: Experimental Recording and Analysis of Electroencephalography (EEG) signals in Stroke Individuals with Stroke during Speech Tasks.	
	Karim Johari (COMD) – Primary Advisor: Roozbeh Behroozmand	2015 – 2019
	Project: Neural Mechanisms of Speech and Limb Motor Timing Processing.	
Master's Thesis	Committee Chair	
	Marissa Olson (COMD)	2022 – 2023
	Thesis Project: Effect of Visual Feedback Training on Improving Speech Sensorimotor Control in Post-Stroke Aphasia.	
	Stacey Sangtian (COMD) – Committee Chair: Roozbeh Behroozmand	2015 – 2017
	Thesis Project: Neural and Behavioral Correlates of Planning during Vocal Motor Control.	
Master's Thesis	Committee Member	
	Jillian Gierman (COMD) – Committee Chair: Jessica Klusek	2021 – 2022
	Thesis: A Novel Cognitive Stress Paradigm To Assess Subtle Cognitive Differences In Women With The <i>FMR1</i> Premutation	
	Yilun Zhang (BIOS) – Committee Chair: Yuan Wang	2020 – 2021
	Thesis Project: Association between the Beta Band Neural Response and the Behavioral Performance in Aphasic and Neurologically Intact Individuals.	
	Xingpei Zhao (BIOS) – Committee Chair: Yuan Wang	2020
	Thesis Project: Network-based Statistical Analysis of Functional Magnetic Resonance Imaging Data from Aphasia Patients.	
	Ali Arabi (Iran University of Medical Sciences) – Committee Chair: Leila Ghelichi	2018 – 2020
	Thesis Project: Study of Perceptual and Accoustic Voice Features of Theatre Stage Actors and Voice Therapy in Voice Complainant Group.	
	Shafagh Yazdani (EXSC) – Committee Chair: Troy Herter	2017 – 2018
	Thesis Project: Cortical Damage and Disconnection Contribute to Post-Stroke Sensorimotor Impairment.	

Martha (Josie) Reed (COMD) – Primary Advisor: Roozbeh Behroozmand	2023
Research Project: Neural bases of Speech Sensorimotor Integration in Aphasia.	
Marissa Olson (COMD) – Primary Advisor: Roozbeh Behroozmand	2021 – 2023
Research Project: Neural bases of Speech Sensorimotor Integration in Aphasia.	
Emily Levan (COMD) – Primary Advisor: Roozbeh Behroozmand	2021 – 2023
Research Project: Neural bases of Speech Sensorimotor Integration in Aphasia.	
Samantha Kazimer (COMD) – Primary Advisor: Roozbeh Behroozmand	2019 – 2021
Research Practicum Project: Effect of Visual Feedback Training on Limb and Speech Motor Control.	
Sara House (COMD) – Primary Advisor: Roozbeh Behroozmand	2019 – 2021
Research Practicum Project: Effect of Visual Feedback Training on Limb and Speech Motor Control.	
Eileen Durkin (COMD) – Primary Advisor: Roozbeh Behroozmand	2019 – 2021
Research Practicum Project: Effect of Visual Feedback Training on Limb and Speech Motor Control.	
Eliza Jane Sessions (COMD) – Primary Advisor: Roozbeh Behroozmand	2019 – 2021
Research Practicum Project: Effect of Visual Feedback Training on Limb and Speech Motor Control.	
Jacqueline Galbraith (COMD) – Primary Advisor: Roozbeh Behroozmand	2018 – 2020
Research Practicum Project: Neural and Behavioral Bases of Speech Sensorimotor Impairment in Post-Stroke Aphasia.	
Julia Biernat (COMD) – Primary Advisor: Roozbeh Behroozmand	2018 - 2020
Research Practicum Project: Neural and Behavioral Bases of Speech Sensorimotor Impairment in Post-Stroke Aphasia.	
Kimberly Chambers (COMD) – Primary Advisor: Roozbeh Behroozmand	2018 – 2020
Research Practicum Project: Neural and Behavioral Bases of Speech Sensorimotor Impairment in Post-Stroke Aphasia.	
Janna McIntyre (COMD) – Primary Advisor: Roozbeh Behroozmand	2018 – 2020
Research Practicum Project: Neural and Behavioral Bases of Speech Sensorimotor Impairment in Post-Stroke Aphasia.	
Christine Pang (COMD) – Primary Advisor: Roozbeh Behroozmand	2017 – 2019
Research Practicum Project: Sensorimotor Impairment of Speech in Patients with Post-Stroke Aphasia.	
Jacqueline Reagor (COMD) – Primary Advisor: Roozbeh Behroozmand	2017 – 2019
Research Practicum Project: Sensorimotor Impairment of Speech in Patients with Post-Stroke Aphasia.	
Jessica Miller (COMD) – Primary Advisor: Roozbeh Behroozmand	2016 – 2019
Research Practicum Project: Sensorimotor Impairment of Speech in Patients with Post-Stroke Aphasia.	
Cameron McDuffie (COMD) – Primary Advisor: Roozbeh Behroozmand	2016 – 2018
Research Practicum Project: Effects of Aging on the Neural Mechanisms of	

Speech Sensorimotor Integration and Motor Timing Deficits.	
Kathryn Hyatt (COMD) – Primary Advisor: Roozbeh Behroozmand	2016 – 2018
Research Practicum Project: Effects of Aging on the Neural Mechanisms of Speech Sensorimotor Integration and Motor Timing Deficits.	
Nicole Sovde (COMD) – Primary Advisor: Roozbeh Behroozmand	2016 – 2018
Research Practicum Project: Effects of Aging on the Neural Mechanisms of Speech Sensorimotor Integration and Motor Timing Deficits.	
Megan Johnson (COMD) – Primary Advisor: Roozbeh Behroozmand	2015 – 2017
Research Practicum Project: Age-related Reorganization of Sensorimotor Brain Networks Involved in Vocal Production and Motor Control: Insights from Behavioral and Neurophysiological Recordings.	
Sarah Neal (COMD) – Primary Advisor: Roozbeh Behroozmand	2015 – 2017
Research Practicum Project: Age-related Reorganization of Sensorimotor Brain Networks Involved in Vocal Production and Motor Control: Insights from Behavioral and Neurophysiological Recordings.	
Erin Hurst (COMD) – Primary Advisor: Roozbeh Behroozmand	2015 – 2017
Research Practicum Project: Age-related Reorganization of Sensorimotor Brain Networks Involved in Vocal Production and Motor Control: Insights from Behavioral and Neurophysiological Recordings.	
Stacey Sangtian (COMD) – Primary Advisor: Roozbeh Behroozmand	2014 – 2016
Research Practicum Project: Neural Mechanisms of Sensorimotor Learning in the Speech Production System.	
Chantel Juitt (COMD) – Primary Advisor: Roozbeh Behroozmand	2014 – 2016
Research Practicum Project: Neural Mechanisms of Sensorimotor Learning in the Speech Production System.	
Victoria Rogers (COMD) – Primary Advisor: Roozbeh Behroozmand	2014 – 2016
Research Practicum Project: Neural Mechanisms of Sensorimotor Learning in the Speech Production System.	
Undergraduate Honors Thesis Committee Chair	
Emily Virag (BIOL) — Primary Advisor: Roozbeh Behroozmand	2022
Honor's Thesis: EEG-based Neurofeedback Training for Enhancing Motor Function in Neurotypical Adults. (Funded Magellan Grant Project)	
Elizabeth Thompson (BIOL) – Primary Advisor: Roozbeh Behroozmand	2018
Honor's Thesis: Speech and Hand Movement Rehabilitation through HD-tCDS Neurostimulation. (Funded Magellan Grant Project)	
Caroline Hayden (BIOL) – Primary Advisor: Roozbeh Behroozmand	2017
Honor's Thesis: Modulating Vocal Pitch Motor Control through Neurostimulation. <i>(Funded Magellan Grant Project)</i>	
Undergraduate Honors Thesis Committee Member	

Meagan Lauber (COMD): Primary Adviser: Jessica Klusek

premutation Carriers as a Potential Biomarker of Preclinical fragile X-Associated Tremor/Ataxia Syndrome Symptoms	
Keiko Bridwell (BIOL) – Primary Advisor: Dirk den Ouden	2017
Honor's Thesis: Modulating Vocal Pitch Motor Control through Neurostimulation. <i>(Funded Magellan Grant Project)</i>	
Undergraduate Research Project/Independent Study Supervision	
Jessica Benson (PUBH) – Primary Advisor: Roozbeh Behroozmand	2023
Research Project: Behavioral and Neural Mechanisms of Voice Control in Cochlear Implant Users	
Parker Wess (BIOL) – Primary Advisor: Roozbeh Behroozmand	2021 – 2022
Independent Study Project: EEG-based Neurofeedback Training for Enhancing Motor Function in Neurotypical Adults.	
Aideen Gill (BMEN) – Primary Advisor: Roozbeh Behroozmand	2020 – 2021
Independent Study Project: Effect of High-Definition Transcranial Direct Current Stimulation on Speech and Upper Limb Motor Reaction Time.	
Bryson Bowman (PUBH) – Primary Advisor: Roozbeh Behroozmand	2020
Independent Study Project: Neuroscience of Speech Production in Neurotypical Adults and Individuals with Parkinson's Disease.	
Emily Virag (BIOL) – Primary Advisor: Roozbeh Behroozmand	2018 – 2022
Indepdneent Study Project: EEG-based Neurofeedback Training for Enhancing Motor Function in Neurotypical Adults. (Funded Magellan Grant Project)	
Nathan Stofik (CSE) – Primary Advisor: Pooyan Jamshidi	2018 – 2019
Research Project: Neurofeedback-based reinforcement learning game design for improving speech and limb motor function.	
Maggie Fitzpatrick (EXSC) – Primary Advisor: Roozbeh Behroozmand	2017 – 2018
Research Project: Speech and Hand Movement Rehabilitation through HD-tCDS Neurostimulation.	1
Elizabeth Thompson (BIOL) – Primary Advisor: Roozbeh Behroozmand	2015 – 2018
Independent Study Project: Speech and Hand Movement Rehabilitation through HD-tCDS Neurostimulation. <i>(Funded Magellan Grant Project)</i>	
Caroline Hayden (BIOL) – Primary Advisor: Roozbeh Behroozmand	2015 – 2017
Independent Study Project: Modulating Vocal Pitch Motor Control through Neurostimulation. <i>(Funded Magellan Grant Project)</i>	
Keiko Bridwell (BIOL) – Primary Advisor: Dirk den Ouden	2015 — 2017
Research Project: Modulating Vocal Pitch Motor Control through Neurostimulation. (Funded Magellan Grant Project)	

Honor's Thesis: Quantitative Analysis of Phonatory Dysfunction in Female Fmr1

# **Service and Professional Development**

#### **National Level Service**

#### NIH Study Section Reviewer

NIDCD – Clinical Research Center Grant, National Institute of Health

2023

LCOM – Center for Scientific Review, National Institute of Health

2021

MFSR – Center for Scientific Review, National Institute of Health

2020 & 2021

#### **Invited Reviewer**

Ernest J. Del Monte Institute for Neuroscience Pilot Grant Review Program, 2022

University of Rochester

ASHA Foundation Grant Review and Reviewer Training Panel (GRRT) 2018 & 2019

#### Scientific Review Committee

Motor Speech Conference 2022 2021 – 2022

Topics Committee for Motor Speech Conference

2017

#### Ad-hoc Reviewer

Journal of Neuroscience Neurobiology of Aging Journal of Cognitive Neuroscience Psychophysiology

Cortex Psychonomic Bulletin and Review
Cerebral Cortex Neuroscience and Behavioral Reviews
Neuroimage Frontiers in Human Neuroscience
Human Brain Mapping European Journal of Neuroscience
Transactions on Biomedical Engineering Journal of Behavior Research Methods
Nature Scientific Reports Journal of Speech, Language and Hearing

Brain and Language Research

Experimental Brain Research International Journal of Speech-Language

Cognitive, Affective and Behavioral Pathology

Neuroscience Journal of the Association for Research in

### **University of South Carolina**

#### **Committee Member**

USC Faculty Senate 2021 – 2023 USC Faculty Welfare Committee 2015 – 2018

#### Invited Reviewer

USC ASPIRE-I Grant Review Panel 2018, 20, 21
USC SPARC Graduate Research Grant Review Panel 2018

#### Reviewer/Judge

Discover USC Conference 2015 – 2023

#### **Arnold School of Public Health**

#### **Committee Member**

ASPH Tenure and Promotion Committee 2020 – 2023 ASPH Evaluation Committee 2020 – 2023

	ASPH Diversity, Equity, and Inclusion Associate Dean Search Committee	2018
	ASPH Diversity, Equity, and Inclusion Committee	2017 - 2020
	ASPH Student Awards Committee	2015 – 2016
Peer Revie	wer of Teaching Evaluation	
	EXSC-700/882: Physical Activity and Health: Epidemiology, Research, and Practice	Spring 2023
	HSPM-719: Health Services Research Methods	Fall 2021
	ENHS-321: Environmental Pollution and Health	Spring 2021
	EXSC-755: Special Topics in Exercise Science	Fall 2020
COMD	Department	
Committe	e Member	
	COMD Research Colloquium Committee	2023
	COMD Faculty Search Committee Member & DEI Representative	2022 – 2023
	COMD Faculty Search Committee Chair	2020
	COMD Conference Organizing Committee	2018
	COMD Employer Survey Committee	2018
	COMD Graduate Admission Committee	2015 – 2023
	COMD Doctoral Committee	2014 – 2023
Academic	Adviser	
	COMD Doctoral and Masters Students	2014 – 2023
Faculty Ex	aminer	
	COMD Summative Assessment Exam	2016 – 2023
Organizer,	/Coordinator	
	COMD Presentations at Discover USC Conference	2018 – 2023
Reviewer/	Judge	
	COMD Students Research Festival	2015 - 2023

### **Public Media**

- Two Arnold School faculty members win research services awards (March 16, 2022) Link
- Roozbeh Behroozmand receives \$3.6 million from NIH to enhance research on brain damage and speech impairment (Jan.13.2021) <u>Link</u>
- C-STAR Lecture Series: Behavioral and Neural Bases of Speech Sensorimotor Impairment in Aphasia (Sep.14.2017) <u>Link</u>
- COMD's Roozbeh Behroozmand receives \$700K from NIH to study how brain damage causes speech
  impairment in stroke survivors with aphasia. University of South Carolina Arnold School of Public Health
  (July.24.2017) <u>Link</u>

- South Carolina Improves Parkinson's Symptoms with Therapy and Research. Association of *Schools and Programs of Public Health (ASPPH). Members Research and Reports* (January.21.2016) Link
- South Carolina Finds Brain Activity Varies for Active vs Passive Listening. *Association of Schools and Programs of Public Health (ASPPH). Members Research and Reports* (February.5.2015) Link
- Study finds increased brain activity when listening to live speech sounds compared to playback sounds. *USC Arnold School of Public Health News* (January.26.2015) <u>Link</u>

### **Professional Research Skills**

- Behavioral Assessment, Experimental Design, and Computational Modeling of Speech
- Electrophysiological Measurement of Human Brain Activity (EEG, ERP, ECoG)
- Functional and Anatomical Imaging of the Human Brain Activity (fMRI)
- Non-invasive Neurostimulation of the Human Brain (tACS, tDCS)
- Programming in MATLAB, SPSS, Max-Msp, C++, Assembly
- Digital Electronic Circuit Design and Analysis