

AARON M. JOHNSON, M.M., PH.D.

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Current Appointments and Leadership Positions

Faculty Appointment

02/2021 Associate Professor (Clinical), Non tenure-eligible, Rehabilitation Medicine, New York University Grossman School of Medicine, New York, NY
07/2020 Associate Professor (Clinical), Non tenure-eligible, Otolaryngology-Head and Neck Surgery, New York University Grossman School of Medicine, New York, NY
09/2016 Affiliate Faculty, Communicative Sciences and Disorders, Steinhardt School of Culture, Education, and Human Development, New York University, New York, NY
09/2016 Affiliate Faculty, Vocal Performance Program, Music and Performing Arts Professions, Steinhardt School of Culture, Education, and Human Development, New York University, New York, NY

Administrative Leadership Positions

12/2021 – present: Co-Director, NYU Langone Voice Center

Education and Training

Education

Year	Degree	Field	Institution
1995	Bachelor of Music	Vocal Performance	Northwestern University
1999	Master of Music	Vocal Performance and Literature	Northwestern University
2007	Master of Science	Speech-Language Pathology	Rush University
2012	Doctor of Philosophy	Communicative Disorders	University of Wisconsin, Madison

Postdoctoral Training

2009 – 2012 Clinical Fellow in Speech-Language Pathology, Voice and Swallowing Clinic at the University of Wisconsin Hospital & Clinics

Specialty Certification

2005 Certificate in Vocology from the National Center for Voice and Speech
2012 – present Certificate of Clinical Competence in Speech-Language Pathology, American Speech-Language Hearing Association (#121171718)

Licensure

2008 – 2012 Licensed Speech Language Pathologist (temporary), State of Wisconsin (#3181-154)
2013 – 2017 Licensed Speech Language Pathologist, State of Illinois (#146011548)
2016 – present Licensed Speech Language Pathologist, State of New York (#025955)

Previous Appointments and Leadership Positions

Faculty Academic Appointments

2000 – 2005 Adjunct Professor, Non tenure-eligible, Departments of Music and Theatre, Elmhurst College, Elmhurst, IL
2012 – 2016 Assistant Professor, Tenure-eligible, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL

- 2013 – 2016 Faculty Research Affiliate, Neuroscience Program, University of Illinois at Urbana-Champaign, Champaign, IL
- 2013 – 2016 Affiliate Faculty, Bioimaging Science and Technology Research Group, Beckman Institute, University of Illinois at Urbana-Champaign, Champaign, IL
- 2016 – 2020 Assistant Professor (Clinical), Non tenure-eligible, Otolaryngology-Head and Neck Surgery, New York University School of Medicine, New York, NY

Other Professional Positions

- 1998 – 2005 Private Singing Instructor, Chicago, IL
- 2009 Teaching Assistant, Department of Communicative Disorders, University of Wisconsin, Madison
- 2009 – 2012 Fellow, University of Wisconsin Voice Research Training Program, University of Wisconsin, Madison
- 2012 Instructor, Department of Communicative Disorders, University of Wisconsin, Madison

Professional Singing Experience

- 1994 – 2007 Bass, Chicago Symphony Chorus,
- 1994 – 2006 Bass, Grant Park Symphony Chorus (1994, 1995, 1998, 2003, & 2006)
- 1996 Soloist at the Ravinia Festival, Chicago Symphony Orchestra
- 1996 – 2007 Bass, Anshe Emet Synagogue High Holiday and Shabbat Choir
- 1997 – 2001 Bass, Schola Cantorum of St. Peter's in the Loop
- 1997 – 2007 Bass, Chicago *a cappella*
- 2001 Chorus, L'Opera Piccola
- 2001 Bass soloist in Handel's Messiah, Janus Ensemble, December
- 2003 *Papageno* in The Mozart Experience, Chicago Symphony Orchestra
- 2003 *Astolfo* and *Gubetta* in Donizetti's Lucrezia Borgia, Da Corneto Opera
- 2006 *Pilatus* in J. S. Bach's St. Matthew Passion, St. John Cantius

Awards, Honors, and Memberships in Honorary Societies

- 1991 – 1995 National Merit Scholar, National Merit Scholarship Corporation
- 1998 – 1999 Eckstein Fellowship, Northwestern University
- 2007 Association of Schools of Allied Health Professions Scholarship for Excellence
- 2007 Students Pursuing Academic and Research Careers (SPARC) Award, American Speech-Language Hearing Association
- 2008 New Century Scholars Doctoral Scholarship, American Speech-Language Hearing Foundation
- 2010 New Investigator Grant, awarded by ASHA Special Interest Division 13 at the 18th Annual Dysphagia Research Society Meeting
- 2010 1st Place Scientific Abstract: Oral Presentation at the 18th Annual Dysphagia Research Society Meeting
- 2012 Graduate Student Peer Mentor Award, University of Wisconsin, Graduate School
- 2013 Sataloff Award for Young Investigators, co-sponsored by Elsevier and the Voice Foundation, presented at the Voice Foundation's 42nd Annual Symposium
- 2022 Pan American Vocology Association BRAVA Award for exemplary service to the organization

Teaching Activities

- 2003 – 2005 Department of Music, Primary Instructor, Music Theory I & II, Undergraduate, Elmhurst College, Full semester course 5 days/week.
- 2004 Department of Music, Primary Instructor, Music in Western Culture, Undergraduate, Elmhurst College, Full semester course 3 days/week.
- 2012 Department of Communicative Disorders, Primary Instructor, Management & Assessment of Voice Disorders, Graduate, University of Wisconsin-Madison, Full semester course online.
- 2012 - 2015 Department of Speech and Hearing Science, Primary Instructor, Introduction to Voice Disorders, Graduate, University of Illinois at Urbana-Champaign, Full semester course 2 days/week.
- 2014 - 2015 Department of Speech and Hearing Science, Primary Instructor, Head and Neck Cancer and Neurological Voice Disorders, Graduate, University of Illinois at Urbana-Champaign, Full semester course 2 days/week.

- 2013 - 2015 Department of Speech and Hearing Science, Primary Instructor, Normal and Disordered Swallowing, Graduate, University of Illinois at Urbana-Champaign, Full semester course 2 days/week.
- 2016 – present Department of Communicative Sciences and Disorders, Guest Lecture, Steinhardt School of Culture, Education, and Human Development New York University, Graduate, One lecture per semester.
- 2016 – present Vocology and Care of the Singing Voice, Guest Lecture, Advanced Certificate in Vocal Pedagogy, Steinhardt School of Culture, Education, and Human Development New York University, Four lectures per semester
- 2017 – present The New Studio on Broadway, Guest Lecturer, Tisch School of the Arts, New York University, Undergraduate, One lecture per semester
- 2018 – present Department of Music and Performing Arts Professions, Guest Lecture, Steinhardt School of Culture, Education, and Human Development New York University, Undergraduate, One lecture per semester

Invited Talks and Teaching of Peers

Internal

Sponsored by NYU Langone Health

- 11/2017 Invited Speaker, *Effects of Advanced Age on the Voice*, Grand Rounds, Department of Otolaryngology-Head and Neck Surgery, NYU School of Medicine, New York, NY
- 01/2018 Invited Speaker, *Critical review of published research*, Resident Research Didactic Lecture Series, Department of Otolaryngology-Head and Neck Surgery, NYU School of Medicine, New York, NY

Sponsored by all other NYU schools

- 09/2016 Invited Speaker, *Exercising the aging voice*, Doctoral Student Seminar, Department of Communicative Sciences and Disorders, Guest Lecture, Steinhardt School of Culture, Education, and Human Development New York University,

External to NYU Langone Health and all other NYU schools

- 07/2002, 07/2003, & 07/2004. Invited speaker, *Vocal health for singers* and *Basic anatomy and physiology of the singing voice*, Wunderstudios Summer Singing Workshop, Elmhurst, IL.
- 02/2006 Invited speaker, *What is Vocology?*, Annual joint meeting of Chicago Chapter NATS and the Chicago Singing Teachers Guild, Elmhurst, IL.
- 03/2006 Invited speaker, *Voice disorders in the acute rehabilitation setting*, Speech-language pathology in-service, Rehabilitation Institute of Chicago, Chicago, IL.
- 05/2006 Invited speaker, *The role of the speech-language pathologist in a case of a patient with severe cognitive/communicative deficits*, Rush University speech-language pathology grand rounds, Chicago, IL.
- 10/2006 Invited speaker, *Science and the singing voice*, Northern Illinois University, DeKalb, IL.
- 03/2007 Invited speaker, *Technology and the voice studio*, Workshop presented at the annual joint meeting of Chicago Chapter NATS and the Chicago Singing Teachers Guild, Evanston, IL.
- 03/2009 Guest lecturer, *Source of ultrasonic vocalizations in rats*, Research Symposium, Department of Communicative Disorders, University of Wisconsin, Madison, WI.
- 05/2009 Invited speaker, *How to choose a voice teacher* and *Giving your best audition*, Workshops presented at the University of Wisconsin Voice and Swallow Clinic's "Explore the Voice" public seminar, Madison, WI.
- 02/2010 Guest lecturer, *Underlying mechanisms of neuromuscular electrical stimulation therapy: changes at the neuromuscular junction*, Research Symposium, Department of Communicative Disorders, University of Wisconsin, Madison, WI.
- 09/2010 Guest lecturer, *Effect of vocal exercise on the ultrasonic vocalizations of rats*, Research Symposium, Department of Surgery, University of Wisconsin, Madison, WI.
- 07/2012 Guest lecturer, *Understanding laryngeal image analysis using ImageJ, a free, open-source tool*. Workshop presented at the 12th Biennial Phonosurgery Symposium, Madison, WI.
- 12/2012 Invited speaker, *Understanding, preventing and treating voice disorders in elderly adults*, Southern Illinois University School of Medicine, Springfield, IL.

- 01/2013 Invited speaker, *Rat ultrasonic vocalizations: A behavioral model for studying laryngeal neurobiology*. Behavioral Neuroscience Division of the Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, IL.
- 04/2013 Invited Discussant, *Alternative nomenclature for singing voice rehabilitation in a clinical context*. Proposed Specialty Training in Vocal Health. Symposium at the National Center for Voice and Speech, Salt Lake City, UT.
- 11/2014 Invited Speaker, *Laryngeal biological mechanisms underlying voice therapy*. The annual meeting of the American Speech-Language-Hearing Association, Orlando, FL.
- 11/2014 Guest lecturer, *Specialty careers in voice*, National Student Speech-Language Hearing Association roundtable at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL.
- 06/2014 Invited lecturer, *Listening to rats: Acoustic changes of ultrasonic vocalizations in models of disease and intervention*. 4th Annual Neuroengineering IGERT Symposium, University of Illinois at Urbana-Champaign, Urbana, IL.
- 06/2014 & 06/2015. Invited speaker, *The scientific singer and Vocal health for singers*. Le Chateau de la Voix Summer Vocal Academy, Urbana, IL.
- 10/2015 Invited speaker, *Music, microscopes, and MRI: Building a translational research program to study vocal exercise*, Department of Communication Sciences and Disorders, and Training rats to vocalize: a model for investigating laryngeal neuromuscular changes underlying vocal exercise, Department of Physiology, University of Kentucky, Lexington, KY.
- 07/2016 Invited speaker, *The aging voice: Biology of aging and exercise*, 54th National Conference of the National Association of Teachers of Singing, Chicago, IL.
- 10/2016 Invited speaker, *Mature vocal athletes: Voice use in the mature population*, Fall Voice Conference, Scottsdale, AZ.
- 02/2018 Invited speaker, *What does 'aging voice' really mean?* and *Voice therapy and the aging voice*, 13th Annual Advanced Practices in Voice & Dysphagia, Las Vegas, NV.
- 06/2018 Invited speaker, *Neuromuscular physiology of vocal exercise*, The Voice Foundation's 47th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 04/2019 Invited keynote speaker, *Science behind the tools: Neuromuscular effects of vocal training and aging on the muscles of voice production*, Annual Utah Performance Voice Conference, Salt Lake City, UT.
- 07/2019 Invited guest faculty, *Summer Vocology Institute*, National Center for Voice and Speech, Salt Lake City, UT.
- 09/2019 Invited speaker, *The why, what, and how of acoustic assessment of voice*, New York Voice Study Group, New York, NY.
- 11/2020 Invited speaker (co-presenters: Solomon N., Guntupalli C.), *Reframing vocal fatigue: Concept to clinic*. The Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).
- 02/2021 Invited speaker, *The aging instrument: Mind, Body, and Spirit of Therapy*, The Voice Therapy Conference (online).
- 06/2021 Invited guest faculty, *Summer Vocology Institute*, National Center for Voice and Speech, Salt Lake City, UT (online).
- 04/2022 Invited speaker, *Understanding and treating voice disorders in older adults* and *The vocal athlete: Evaluating and treating voice disorders in performers*, 2022 New Jersey Speech-Language-Hearing Association Annual Convention, Long Branch, NJ.
- 05/2022 Invited speaker, *Exercising the aging voice*, Northwest Voice: The Art and Science of the Performing Voice Conference, Seattle, WA.
- 06/2022 Invited guest faculty, *Summer Vocology Institute*, National Center for Voice and Speech, Salt Lake City, UT.
- 02/2023 Invited speaker, *Is vocal exercise really exercise?*, University of Utah Health Voice Disorders Center Grand Rounds, Salt Lake City, UT (online).

Mentoring and Advising

Predoctoral students supervised and/or mentored

2015 – 2020, Charles Lenell, Communicative Science and Disorders, Steinhardt School of Culture, Education, and Human Development, New York University, Doctoral Student Research Supervisor, now on faculty at University of Northern Colorado.

- 2014, Li-Hsin Ning, Linguistics, University of Illinois at Urbana-Champaign, Doctoral Thesis Committee Member, Now at Google Taiwan.
- 2015 -2016, Saundra DeAthos-Meers, Vocal Department, School of Music, University of Illinois at Urbana-Champaign, Qualifying Exam Committee Member and Cognate Advisor, Now on faculty at Illinois Wesleyan.
- 2016 – 2019, Joshua Glasner, Vocal Performance Program, Department of Music and Performing Arts Professions, Steinhardt School of Culture, Education, and Human Development, New York University, Doctoral Student Research Supervisor, now on faculty at Delaware Valley University.
- 2016 – 2019, Ricardo Sepúlveda-Rodríguez, Vocal Department, School of Music, University of Illinois at Urbana-Champaign, Qualifying Exam Committee Member and Cognate Advisor, Now on faculty at the Conservatory of Music of Puerto Rico.

Postdoctoral students supervised and/or mentored

- 2018 – 2020, Adrianna Shembel, New York University, Primary mentor, now on faculty at University of Texas-Dallas.

Institutional, Local/National Service and Related Activity

Institutional Service

- 2013 – 2015 School, Member, Elections and Credentials Committee, College of Applied Health Sciences, University of Illinois at Urbana-Champaign
- 2013 – 2015 Department, Member, Graduate Programs Committee, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign
- 2014 – 2015 Department, Faculty Advisor, National Student Speech-Language Hearing Association at the University of Illinois, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign
- 2014 – 2015 Department, Chair, Faculty Search Committee, College of Applied Health Sciences: Open Rank Faculty in Communication Disorders Related to Head and Neck Cancer - Speech and Hearing Science, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign
- 2014 – 2016 University, Senator (Departmental Representative), Faculty Senate, University of Illinois at Urbana-Champaign
- 2015 – 2016 School, Member, Health Technology Strategic Planning Committee, College of Applied Health Sciences, University of Illinois at Urbana-Champaign
- 2015 – 2016 Department, Member, Faculty Search Committee, College of Applied Health Sciences: Open Rank Faculty in Communication Disorders Related to Head and Neck Cancer - Speech and Hearing Science, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign
- 2015 – 2016 Department, Member, Undergraduate Programs Committee, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign
- 2016 Department, Member, Faculty Search Committee, Vocal Performance Program, Department of Music and Performing Arts Professions, Steinhardt School of Culture, Education, and Human Development, New York University
- 2017 Department, Member, Faculty Search Committee; Communicative Science and Disorders, Steinhardt School of Culture, Education, and Human Development, New York University
- 2018 – current Department, Co-Chair, Resident Research Committee, Department of Otolaryngology –Head and Neck Surgery, New York University School of Medicine
- 2019 Department, Member, Faculty Search Committee; Communicative Science and Disorders, Steinhardt School of Culture, Education, and Human Development, New York University

Professional Service

Professional Service for Professional Organizations

- 2002 – 2004 Corresponding Secretary, Chicago Chapter National Association of Teachers of Singing (NATS)
- 2002 – 2004 Secretary, Chicago Singing Teachers Guild
- 2004 – 2006 President, Chicago Chapter NATS
- 2006 – 2007 President, Chicago Singing Teachers Guild
- 2017 – 2019 President-Elect, Pan American Vocology Association

2018 – 2020	Member, Coordinating Committee, Special Interest Group 3, Voice and Voice Disorders, American Speech-Language-Hearing Association
2018 – 2021	Member, Board of Directors, National Association of Teachers of Singing Foundation
2019 – 2021	President, Pan American Vocology Association
2021	Associate Coordinator, Coordinating Committee, Special Interest Group 3, Voice and Voice Disorders, American Speech-Language-Hearing Association
2021 – 2022	Past-President, Pan American Vocology Association
2022 – present	Coordinator, Coordinating Committee, Special Interest Group 3, Voice and Voice Disorders, American Speech-Language-Hearing Association

Peer Review Groups, Grant Application Review Groups, and Study Sections

2015 – 2023	Reviewer, Hamdan International Presentation Award Committee, Voice Foundation Annual Symposium
2017	Reviewer, Mitacs Accelerate Grant

Advisory Boards and Consultant Positions

2018 – current	Member, Scientific Advisory Board, National Association of Teachers of Singing
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Organizing Roles in Scientific Meetings

2010	Voice, Resonance, & Alaryngeal Speech Program Committee, American Speech-Language Hearing Association National Convention
2011	Special Interest Division 13 Research Committee, American Speech-Language Hearing Association National Convention
2013	Speech-Language Pathology Committee, The Fall Voice Conference
2015	Speech-Language Pathology Committee, The Fall Voice Conference
2015	Voice, Resonance, & Alaryngeal Speech Program Committee, American Speech-Language Hearing Association National Convention
2018	Voice, Resonance, & Alaryngeal Speech Program Committee, American Speech-Language Hearing Association National Convention
2022	Scientific Program Chair, The Fall Voice Conference

Editorial and Journal Positions

2017 – 2018	Editorial board member, American Journal of Speech-Language Pathology
2011	Ad-hoc reviewer, Medical Engineering & Physics
2012 – current	Ad-hoc reviewer, Annals of Otology, Rhinology, and Laryngology
2012 – 2015	Ad-hoc reviewer, Journal of Voice
2012 – 2015	Ad-hoc reviewer, Folia Phoniatica et Logopaedica
2013	Ad-hoc reviewer, Journal of the Acoustical Society of America
2013	Ad-hoc reviewer, Journal of Experimental Biology
2013 – 2017	Ad-hoc reviewer, Otolaryngology - Head and Neck Surgery
2014	Ad-hoc reviewer, Ageing Research Reviews
2014 – current	Ad-hoc reviewer, Developmental Psychobiology
2014	Ad-hoc reviewer, Journal of Neurophysiology
2014	Ad-hoc reviewer, Pharmacology Research & Perspectives
2015 – 2017	Editorial board member, Perspectives of the American Speech-Language Hearing Association Special Interest Group 3, Voice and Voice Disorders
2015 – current	Editorial board member, Journal of Voice
2016	Ad-hoc reviewer, Journal of Communication Disorders
2016	Ad-hoc reviewer, Muscle and Nerve
2017 – current	Ad-hoc reviewer, Journal of Speech, Language, and Hearing Research
2017	Ad-hoc reviewer, Royal Society of Open Science
2018	Ad-hoc reviewer, Journal of Applied Toxicology
2018	Ad-hoc reviewer, Pharmacology, Biochemistry and Behavior
2019	Ad-hoc reviewer, Animal Behaviour
2019	Ad-hoc reviewer, Acoustics

Bibliography

Publications

Peer-reviewed publications

1. **Johnson AM**, Ciucci MR, Russell JA, Hammer MJ, Connor NP. Ultrasonic output from the excised rat larynx. *J Acoust Soc Am* 2010;128:EL75-9.
2. **Johnson AM**, Connor NP. Effects of electrical stimulation on neuromuscular junction morphology in the aging rat tongue. *Muscle & Nerve* 2011;43:203-11.
3. **Johnson AM**, Doll EJ, Grant LM, Ringel L, Shier JN, Ciucci MR. Targeted Training of Ultrasonic Vocalizations in Aged and Parkinsonian Rats. *J Vis Exp.* 2011;54.
4. **Johnson AM**, Kempster GB. Classification of the Classical Male Singing Voice Using Long-Term Average Spectrum. *J Voice* 2011;25:538-43.
5. **Johnson AM**, Ciucci MR, Connor NP. Vocal Training Mitigates Age-Related Changes Within the Vocal Mechanism in Old Rats. *J Gerontol A Biol Sci Med Sci* 2013;68:1458-68.
6. **Johnson AM**, Grant LM, Schallert T, Ciucci MR. Changes in Rat 50-kHz Ultrasonic Vocalizations During Dopamine Denervation and Aging: Relevance to Neurodegeneration. *Curr Neuropharmacol* 2015;13:211-9.
7. Belagodu AP, **Johnson AM**, Galvez R. Characterization of ultrasonic vocalizations of Fragile X mice. *Behavioural Brain Research* 2016;310:76-83.
8. **Johnson AM**. Basic Science: The Foundation of Evidence-Based Voice Therapy. Perspectives of the ASHA Special Interest Groups. 2016;1(3):7-13. doi: 10.1044/persp1.SIG3.7.
9. **Johnson AM**, Goldfine A. Intrasubject Reliability of Maximum Phonation Time. *J Voice* 2016;30:775 e771-775 e774.
10. Pultorak JD, Kelm-Nelson CA, Holt LR, Blue KV, Ciucci MR, **Johnson AM**. Decreased approach behavior and nucleus accumbens immediate early gene expression in response to Parkinsonian ultrasonic vocalizations in rats. *Social Neuroscience* 2016;11:365-79.
11. Barker DJ, **Johnson AM**. Automated acoustic analysis of 50-kHz ultrasonic vocalizations using template matching and contour analysis. *J Acoust Soc Am* 2017;141:EL281.
12. *Lenell C, **Johnson AM**. Sexual dimorphism in laryngeal muscle fibers and ultrasonic vocalizations in the adult rat. *The Laryngoscope* 2017;127:E270-E276.
13. Benedict PA, Ruiz R, Verma A, Dion GR, Oh P, Wang B, Ahmed O, Hiwatashi N, Bing R, Victor K, Hu KS, **Johnson AM**, Branski RC, & Amin MR. The acute and chronic effects of concurrent chemoradiation therapy to the base of tongue in a pre-clinical model. *The Laryngoscope* 2018;128(8):1783-1790.
14. **Johnson AM**. Exercising the aging voice. Perspectives of the ASHA Special Interest Groups 2018;3:12-18.
15. Pultorak J, Alger SJ, **Johnson AM**, Loria S, Marler C. Changes in behavior and ultrasonic vocalizations during pair bonding and in response to an infidelity challenge in monogamous California mice. *Front. Ecol. Evol. - Behavioral and Evolutionary Ecology* 2018;6:125.
16. Shembel AC, Hartnick C, Bunting G, Ballif C, Vanswearingen J, Shaiman S, **Johnson AM**, de Guzman V, Verdolini Abbott K. The study of laryngoscopic and autonomic patterns in exercise-induced laryngeal obstruction. *Annals of Otolaryngology, Rhinology, and Laryngology.* 2018 Nov;127(11):754-762. PMID: 30187760.
17. Amin AR, Achlatis S, Gherson S, Fang Y, Wang B, Born H, Branski RC, **Johnson AM**. The role of oral steroids in the treatment of phonotraumatic vocal fold lesions in women. *Otolaryngology-Head and Neck Surgery.* 2019 Mar;160(3):512-518. PMID: 30322353.
18. Hersey A, Scarce L, **Johnson AM**. Pan American Vocology Association's "Recognized Vocologist" Designation: The Road to Creating Professional Standards in Vocology. *Voice and Speech Review.* 2020;14:2, 227-239.
19. **Johnson AM**. Social isolation alters ultrasonic vocalizations but not thyroarytenoid neuromuscular junctions in old rats. *The Laryngoscope* 2019;129:E9-E14.
20. Kammer RE, Jones CA, **Johnson AM**, Dailey SH, McCulloch TM, Thibeault SL. High-resolution manometry and swallow outcomes after vocal fold injection medialization for unilateral vocal fold paralysis/paresis. *Head Neck.* 2019;41(7):2389-2397. PMID: 30811725.
21. *Lenell C, Newkirk B, **Johnson AM**. Laryngeal Neuromuscular Response to Short- and Long-Term Vocalization Training in Young Male Rats. *J Speech Lang Hear Res.* 2019 Feb 26;62(2):247-256. PMID: 30950702.

22. *Lenell C, Sandage MJ, **Johnson AM**. A Tutorial of the Effects of Sex Hormones on Laryngeal Senescence and Neuromuscular Response to Exercise. *J Speech Lang Hear Res*. 2019 Mar 25;62(3):602-610. PMID: 30950744.
23. Flynn A, Trudeau J, **Johnson AM**. Acoustic Comparison of Lower and Higher Belt Ranges in Professional Broadway Actresses. *J Voice*. 2020;34:410-414. PMID: 30409455.
24. Garber D, Rotsides J, Abu-Ghanem S, Bandler I, Smith A, Oyfe I, Swahn DM, Hagiwara M, Amin M, **Johnson AM**. Decreased Tongue Volume Post Radiation. *Ann Otol Rhinol Laryngol*. 2020;129(8):741-747. PMID: 32126808.
25. *Glasner JD, **Johnson AM**. Effects of Historical Recording Technology on Vibrato in Modern-Day Opera Singers. *J Voice*. 2020;S0892-1997(20)30271-X. [Epub ahead of print]. PMID: 32819779.
26. Gómez P, Kist A, Schlegel P, Berry D, Chhetri D, Dürr S, Echternach M, **Johnson AM**, Kniesburges S, Kunduk M, Maryn Y, Schützenberger A, Verguts M, Döllinger M. BAGLS, a multihospital Benchmark for Automatic Glottis Segmentation. *Sci Data*. 2020;7(1):186. PMC7305104.
27. *Lenell C, *Shembel AC, **Johnson AM**. Preparation of the Rat Vocal Fold for Neuromuscular Analyses. *J Vis Exp*. 2020(159). PMID: 32478747.
28. *Houle N, **Johnson AM**. Relationships across clinical measures of vocal quality and functioning and their relationship with patient perception. *Am J Speech Lang Pathol*. 2021;30(6):2668-80. Epub 2021/11/02. doi: 10.1044/2021_AJSLP-21-00128. PMID: 34723650.
29. **Johnson AM**, Sandage MJ. Exercise Science and the Vocalist. *J Voice*. May 2021;35(3):376-385. PMID: 31628045.
30. *Lenell C, **Johnson AM**. The effects of the estrous cycle, menopause, and recording condition on female rat ultrasonic vocalizations. *Physiol. Behav*. Feb 1 2021;229:113248. PMC7775331.
31. *Lenell C, **Johnson AM**. The effects of the menopause on neuromuscular parameters of the rat vocal folds. *Laryngoscope*. Jun 2021;131(6):1343-1348. PMID: 32738183
32. *Lenell C, Shao Q, **Johnson AM**. Identifying Concomitant Health Conditions in Individuals with Chronic Voice Problems. *J Voice*. 2021;35(5):810 e1- e5. Epub 2020/02/02. doi: 10.1016/j.jvoice.2020.01.007. PMC7384965.
33. Naunheim MR, Bock J, Doucette PA, Hoch M, Howell I, Johns MM, **Johnson AM**, Krishna P, Meyer D, Milstein CF, Nix J, Pitman MJ, Robinson-Martin T, Rubin AD, Sataloff RT, Sims SH, Titze IR, Carroll TL.. Safer Singing During the SARS-CoV-2 Pandemic: What We Know and What We Don't. *J Voice*. 2021;35(5):765-71. Epub 2020/08/06. doi: 10.1016/j.jvoice.2020.06.028. PubMed PMID: 32753296; PMCID: PMC7330568.
34. Popolo PS, **Johnson AM**. Relating cepstral peak prominence to cyclical parameters of vocal fold vibration from high-speed videoendoscopy using machine learning: A pilot study. *J Voice*. 2021;35(5):703-16. Epub 2020/03/17. doi: 10.1016/j.jvoice.2020.01.026. PMID: 32173147.
35. Rotsides J, Chen S, Winchester A, Amin MR, **Johnson AM**. Laryngeal pathologies associated with the genre of singing and professional singing status in a treatment-seeking population. *Laryngoscope*. 2021;131(9):2076-80. Epub 2020/12/04. doi: 10.1002/lary.29303. PMID: 33270237.
36. *Shembel AC, Lee J, Sacher JR, **Johnson AM**. Characterization of primary muscle tension dysphonia using acoustic and aerodynamic voice metrics. *J Voice*. Jul 16 2021;doi:10.1016/j.jvoice.2021.05.019 [Epub ahead of print].
37. *Shembel AC, Chen S, *Lenell C, **Johnson AM**. Effects of vocal training on thyroarytenoid muscle neuromuscular junctions and myofibers in young and older rats. *J Gerontol A Biol Sci Med Sci*. 2021;76(2):244-252. PMID: 32738046
38. Nakamura R, Doyle C, Bing R, **Johnson AM**, Branski RC. Preliminary investigation of in vitro, bidirectional vocal fold muscle-mucosa interactions. *Ann Otol Rhinol Laryngol*. 2022;131(5):512-519. PMID: 34192972.
39. O'Keefe R, Shirazi SY, Mehrdad S, Crosby T, **Johnson AM**, Atashzar SF. Perilaryngeal-cranial functional muscle network differentiates vocal tasks: A multi-channel sEMG approach. *IEEE Trans. Biomed. Eng*. 2022;PP. PMID: 35594214.
40. *Shembel AC, Kanshin E, Ueberheide B, **Johnson AM**. Proteomic characterization of senescent laryngeal adductor and plantaris hindlimb muscles. *Laryngoscope*. 2022;132(1):148-155. PMID: 34115877.
41. *Shembel AC, Siu Y, Lhaxhang T, Ash L, Jones D, **Johnson AM**. Metabolomic expression of laryngeal and hindlimb muscles in adult versus senescent rats. *Ann Otol Rhinol Laryngol*. 2022;131(3):259-267. PMID: 34041924.

42. **Johnson AM**, Lenell C, Severa E, Rudisch DM, Morrison RA, Shembel AC. Semi-automated training of rat ultrasonic vocalizations. *Front Behav Neurosci*. 2022;16:826550. doi:10.3389/fnbeh.2022.826550. eCollection 2022. PMID: 35309686; PMCID: PMC8931525.
43. **Johnson AM**, Pukin F, Krishna V, Phansikar M, Mullen SP. Feasibility and preliminary efficacy of two technology-assisted vocal interventions for older adults living in a residential facility. *J Voice*. In press.
44. Benedict PA, Kravietz A, Yang J, Achlatis E, Doyle C, **Johnson AM**, Dion GR, & Amin MR. Longitudinal effects of base of tongue concurrent chemoradiation therapy in a pre-clinical model. *Laryngoscope*. Sep 22 2022;doi:10.1002/lary.30393. [Epub ahead of print]. PMID: 36134872.
45. Vara Almirall B, Inthavong K, Bradshaw K, Singh N, **Johnson AM**, Storey P, Salati H. Flow Patterns and Particle Residence Times in the Oral Cavity during Inhaled Drug Delivery. *Pharmaceuticals (Basel)*. 2022 Oct 13;15(10):1259. doi: 10.3390/ph15101259. PMID: 36297371; PMCID: PMC9612176.
46. Jeong H, Yoo JY, Ouyang W, Greane ALJX, Wiebe AJ, Huang I, Lee YJ, Lee JY, Kim J, Ni X, Kim S, Huynh HL, Zhong I, Chin YX, Gu J, **Johnson AM**, Brancaccio T, Rogers JA. Closed-loop network of skin-interfaced wireless devices for quantifying vocal fatigue and providing user feedback. *Proc Natl Acad Sci U S A*. 2023 Feb 28;120(9):e2219394120. doi: 10.1073/pnas.2219394120. Epub 2023 Feb 21. PMID: 36802437.
47. Stager SV, Goudelias D, **Johnson AM**. Effects of participation in a structured choral program on the voice of older adults. *J Voice*. 2023 Mar 30;S0892-1997(23)00076-0. doi: 10.1016/j.jvoice.2023.02.018. Epub ahead of print. PMID: 37003864.
48. Montalbaron MB, Achlatis E, **Johnson AM**, Ma Y, Young VN, Rosen CA, Amin MR, Kwak PE. Presumptive diagnosis in tele-health laryngology: A multi-center observational study. *Ann Otol Rhinol Laryngol*. 2023 Apr 18;:34894231165811. doi: 10.1177/00034894231165811. [Epub ahead of print] PubMed PMID: 37070580.

Non peer-reviewed publications

1. **Johnson AM**. Guilt-free Breathing for Singers. *The Voice Foundation Newsletter*. 2010;15(1):3-4.
2. **Johnson AM**. The inherent need for translational science in a multidisciplinary voice world. *The Voice Foundation Newsletter*. 2017;22(3):8-10.

Book Chapters, Books

1. **Johnson AM**, Brunssen KA. The Mature Adult Years. In *The Evolving Singing Voice*. Plural Publishing, Inc., San Diego, CA. 2018.
2. Kelm-Nelson CA, Lenell C, **Johnson AM**, Ciucci MR. Laryngeal activity for production of ultrasonic vocalizations in rats. In: Brudzynski SM, ed. *Handbook of Ultrasonic Vocalizations 2018*.
3. Lenell C, Kelm-Nelson CA, Ciucci MR, **Johnson AM**. Changes in ultrasonic vocalizations in senescent rats. In: Brudzynski SM, ed. *Handbook of Ultrasonic Vocalizations 2018*.

Media appearances

- 2017 Doctor Radio, Otolaryngology Show, Radio, Sirius Satellite Radio,
- 2017 Saint Louis C, “Singing While Pregnant”, Print, New York Times, <https://www.nytimes.com/2017/02/23/well/family/beyonce-singing-while-pregnant.html>
- 2017 Groskin L, “The Highs and Lows of Tuvan Throat Singing”, Radio/Online, <https://www.sciencefriday.com/videos/the-highs-and-lows-of-tuvan-throat-singing/>
- 2017 Chowdhury J, “A Guide to Protesting Without Wearing Yourself Down”, Online, https://www.vice.com/en_us/article/5355y3/a-guide-to-protesting-without-wearing-yourself-down
- 2019 Cheddar, “This Animal Can Teach You to Sing Like Mariah Carey”, Online, <https://cheddar.com/media/this-animal-can-teach-you-to-sing-like-mariah-carey>
- 2019 Zimmerman E, “Most Days I Don’t Speak at All”, Online, <https://www.thecut.com/2019/03/what-happens-when-you-stop-speaking.html>
- 2019 “Is Laryngeal Exercise Good for Your Voice?”, Print, The ASHA Leader, <https://leader.pubs.asha.org/doi/10.1044/leader.FQ.24012019.np>
- 2019 “Once a Professional Singer, Now a Professional Voice Specialist”, Print, The ASHA Leader, <https://leader.pubs.asha.org/doi/10.1044/leader.LML.24112019.28>

Discography

- 1995 Chicago Symphony Orchestra, Symphony No. 13, Shostakovich [CD]. London, England: London/Decca.
- 1997 Chicago Symphony Orchestra, Die Meistersinger von Nürnberg, Wagner [CD]. London, England: London/Decca.

- 2000 Chicago a cappella, Go Down Moses: Tracing the Roots of the African-American Spiritual [CD]. Chicago, IL: Chicago a cappella Records.
- 2001 Chicago a cappella, Holidays a cappella, live [CD]. Chicago, IL: Chicago a cappella Records.
- 2005 Chicago a cappella, Eclectic [CD]. Chicago, IL: Centaur Records.
- 2005 Chicago a cappella, Shall I Compare Thee? [CD]. Chicago, IL: Cedille Records.

Oral and poster presentations

- 2006 **Johnson AM**, Rainero R. *Vocal technique vs. singing style: finding a common ground across aesthetics*. Paper presented at University of California San Francisco Voice Conference, San Francisco, CA.
- 2008 **Johnson AM**. *Classification of the male singing voice using long-term average spectrum*. Paper presented at The Voice Foundation's 37th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2008 Ciucci MR, Wang H, Russell J, Schaser A, **Johnson AM**, Vinney L, Connor NP. *Dopaminergic influence on rat tongue sensorimotor function and impairment*. Paper presented at American Speech-Language-Hearing Association Annual Convention, Chicago, IL.
- 2008 **Johnson AM**, Ciucci MR, Russell, J., Hammer, M. J., Connor NP. *Source of ultrasonic vocalizations in rats*. Poster presented at the American Speech Language Hearing Association Annual Convention, Chicago, IL.
- 2009 **Johnson AM**, Ishikawa, K. *The use of LTAS as a measurement of the singing voice*. Poster presented at the 4th International Conference on the Physiology and Acoustics of Singing, San Antonio, TX.
- 2010 **Johnson AM**, Connor NP. Effect of chronic hypoglossal nerve stimulation on three-dimensional neuromuscular junction morphology in the aging rat tongue. Paper presented at Dysphagia Research Society annual meeting, San Diego, CA.
- 2010 **Johnson AM**, Ciucci MR, Russell, J., Hammer, M. J., Connor NP. *The rat larynx as a behavioral and molecular model for vocal control*. Paper presented at International Conference on Advances in Laryngeal Biophysiology and the International Conference on Voice Physiology and Biomechanics, Madison, WI.
- 2011 **Johnson AM**, Ciucci MR, Connor NP. *How vocal exercise changes rat vocalizations and laryngeal neuromuscular junctions*. Poster presented at the American Speech Language Hearing Association Annual Convention, San Diego, CA.
- 2012 **Johnson AM**, Ciucci MR, Connor NP. *Rat ultrasonic vocalizations: A behavioral model for studying laryngeal neurobiology*. Paper presented at The Voice Foundation's 41st Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2012 **Johnson AM**, Connor NP. Differences in age-related synaptic remodeling between lateral and medial thyroarytenoid neuromuscular junctions. Paper presented at The Fall Voice Conference, New York, NY.
- 2013 **Johnson AM**, Ciucci MR, Connor NP. *Vocal training mitigates the effects of age on rat vocalizations and laryngeal neuromuscular junctions*. Paper presented at The Voice Foundation's 42nd Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2013 **Johnson AM**. *Quantitative laryngeal image analysis: A practical & accessible method for clinicians*. Seminar presented at the American Speech Language Hearing Association Annual Convention, Chicago, IL.
- 2015 Mullen S, Bullard T, Cohen J, Palac D, Hua A, **Johnson AM**, & Mudar R. *A comparison of traditional and tablet-delivered Trails A&B in Three Samples*. Abstract #B48 Poster presented at the Annual Meeting for the Cognitive Neuroscience Society. San Francisco, CA.
- 2015 Pultorak J, Alger SJ, **Johnson AM**, & Marler C. Consequences of mate separation and extra-pair mating opportunities on pair bonding and paternal care in an animal model of monogamy, the California mouse. Poster presented at the Human Behavior and Evolution Society, 27th Annual Conference, Columbia, MO.
- 2015 **Johnson AM**, Seadler B., Sutton BP. *Assessing age-related laryngeal changes with high-resolution MRI*. Paper presented at The Voice Foundation's 45th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2015 Lenell C, **Johnson AM**. *Rat vocalizations: a model to study sexual dimorphism in vocal aging*. Paper presented at The Fall Voice Conference, Pittsburgh, PA.
- 2015 Pultorak J, Kelm-Nelson C, Holt L, Blue K, Ciucci MR, **Johnson AM**. Decreased approach behavior and nucleus accumbens immediate early gene expression in response to parkinsonian ultrasonic vocalizations in rats. Poster presented at the Society for Social Neuroscience 6th Annual Meeting, Chicago, IL.
- 2015 Belagodu A, **Johnson AM**, Galvez R. *Detailed spectral analysis of Fragile X Syndrome mice vocalizations, a model to study speech deficits*. Poster presented at the 45th Annual Meeting of the Society for Neuroscience, Chicago, IL.

- 2016 Kammer R, Jones C, **Johnson AM**, Dailey S, McCulloch T, Thibeault S. *High resolution manometry and FEES swallow outcomes after unilateral vocal fold injection medialization*. (Abstract CID: 2374966), paper presented at the Dysphagia Research Society 2016 Annual Meeting, Tucson, AZ.
- 2016 **Johnson AM**. *The effect of social isolation on vocalizations and neuromuscular junctions of aged rats*. Paper presented at the 10th International Conference on Voice Physiology and Biomechanics, Viña del Mar, Chile.
- 2016 Lenell C., **Johnson AM**. *Sexual dimorphism of muscle fiber size and type in the adult rat thyroarytenoid*. Paper presented at the Modeling Laryngology Biology conference, Madison, WI.
- 2016 **Johnson AM**, Sexton B, Lenell C. *Laryngeal neuromuscular response to short- & long-term vocal exercise in young rats*. Paper presented at the American Speech Language Hearing Association Annual Convention, Philadelphia, PA.
- 2017 **Johnson AM**, Mullen SP. Effects of an independent at-home mobile health vocal training program on vocal function and practice adherence in older adults. Paper presented at the 2017 Fall Voice Conference, Washington, DC.
- 2017 Lenell C., **Johnson AM**. *A review of the influence of sex hormones on laryngeal senescence and neuromuscular response to exercise*. Poster presented at the 2017 Fall Voice Conference, Washington, DC.
- 2017 Piper R, Gherson S, & **Johnson AM**. *Etiology, evaluation & treatment of voice disorders secondary to post-lingual hearing loss: a case study*. Poster presented at the American Speech Language Hearing Association Annual Convention, Los Angeles, CA.
- 2018 Benedict P, Ruiz R, Verma A, Dion GR, Oh P, Wang B, Ahmed O, Hiwatashi N, Bing R, Victor K, Hu KS, **Johnson AM**, Branski RC, Amin MR. *The effects of concurrent chemoradiation therapy to the base of tongue in a pre-clinical model*. Paper presented at the American Broncho-Esophagological Association/Combined Otolaryngology Spring Meetings, National Harbor, MD.
- 2018 Flynn A, Trudeau J, **Johnson AM**. *Acoustic investigation of the female belt in professional Broadway actresses*. Paper presented at The Voice Foundation's 47th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2018 **Johnson AM**. *Can we strengthen the voice?* Paper presented at the VASTA/PAVA Joint Conference, Soma & Science: Bridging the Gap in Interdisciplinary Voice Training, Seattle, WA.
- 2019 **Johnson AM**, Lenell C. *Health conditions associated with chronic voice problems in the United States*. Paper presented at the American Laryngological Association/Combined Otolaryngology Spring Meetings, Austin, TX.
- 2019 **Johnson AM**, Block T, Edwards M. *Dynamic magnetic resonance imaging study of vocal tract kinematics in contemporary musical theatre singing*. Paper presented at The Voice Foundation's 48th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2019 **Johnson AM**, Molfenter S. *Effects of high-intensity group singing training on vocal function in patients with Parkinson disease*. Paper presented at The Voice Foundation's 48th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2019 Glasner JD, **Johnson AM**. *Effects of historical recording technology on vibrato in modern-day opera singers*. Paper presented at The Voice Foundation's 48th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2019 Garber D, Rotsides J, Abu-Ghanem S, Hagiwara M, **Johnson AM**, Amin M. *Decreased tongue volume post radiation*. Paper presented at the AAO-HNSF Annual Meeting, New Orleans, LA.
- 2019 Shembel AC, Lenell C, **Johnson AM**. *Effects of age and vocal exercise on laryngeal muscle structure and function*. Paper presented at the 2019 Fall Voice Conference, Plano, TX.
- 2019 Kwak P, Horne N, **Johnson AM**. *Vitamin B12 injections in vocal performers: Science versus myth*. Paper presented at the 2019 Fall Voice Conference, Plano, TX.
- 2019 Garber D, Rotsides J, Abu-Ghanem S, Hagiwara M, **Johnson AM**, Amin M. *Decreased tongue volume post radiation*. Paper presented at the 2019 Fall Voice Conference, Plano, TX.
- 2020 Lenell C. & **Johnson AM**. *The effects of estrogen on the larynx*. Poster presented at the American Laryngological Association/Combined Otolaryngology Spring Meetings, online.
- 2020 Brancaccio T. & **Johnson AM**. *The SINGER SAVVY APP: Vanquish Vocal Fatigue*. Session presented at the National Association of Teachers of Singing 56th National Virtual Conference, online.
- 2020 Glasner J. & **Johnson AM**. *Listening to the Past: Understanding the Effects of Historical Singing*. Poster presented at the National Association of Teachers of Singing 56th National Virtual Conference, online.
- 2020 **Johnson AM**. *Inventing a research questions*. Workshop presented at the Pan American Vocology Association Symposium, online.

- 2020 Houle N., **Johnson AM**. *Relationships across measures of vocal quality and functioning and their relationship with patient-reported severity*. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).
- 2020 Lenell C., **Johnson AM**. *The effects of estrogen on the thyroarytenoid muscles*. Poster presented at the 2020 Fall Voice Conference, online.
- 2020 Lenell C., **Johnson AM**. *Exercise physiology principles for the aging voice of men and women*. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).
- 2021 Nakamura R, Doyle C, Bing R, **Johnson AM**, Branski RC, Vocal fold mucosa-muscle interactions underlying tissue health and injury. Poster presented at the American Laryngological Association/Combined Otolaryngology Spring Meetings, online.
- 2021 Glasner JD, **Johnson AM**. *Effects of historical wax cylinder recording technology on spectral measurements of treble operatic singer chest voice*. Paper presented at The Voice Foundation's 50th Annual Symposium: Care of the Professional Voice, online.
- 2022 Benedict PA, Kravietz A, Yang J, Achlatis E, Doyle C, **Johnson AM**, Dion GR, Amin MR. *The longitudinal biomechanical effects of concurrent chemoradiation therapy to the base of tongue in a pre-clinical model*. Paper presented at the American Laryngological Association/Combined Otolaryngology Spring Meetings, Dallas, TX.
- 2022 Crosby T, Ruckles M, **Johnson AM**. *Effect of crack/sob onset on acoustic measures of voice quality and closed quotient*. Paper presented at The Voice Foundation's 51st Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
- 2022 Kervin S, Warner G, Tan B, **Johnson AM**. *How We Did It: Remote Collaboration on a Scoping Literature Review of the Belt Voice*. Paper presented at the Pan American Vocology Association annual symposium, Minneapolis, MN.
- 2023 Molfenter SM, Amin MR, Balou M, Herzberg EG, Jones-Rastelli RB, **Johnson AM**. *Do vocal acoustics vary systematically with internal pharyngeal edema after ACDF surgery?* Poster presented at the Annual Dysphagia Research Society Meeting. San Francisco, CA.
- 2023 O'Keeffe R, Shirazi SY, Mehrdad S, Crosby T, **Johnson AM**, Atashzar SF. *Perilaryngeal-centric functional muscle network in patients with vocal hyperfunction - a case study*. Paper presented at the 11th International IEEE EMBS Conference on Neural Engineering (NER'23). Baltimore, MD.
- 2023 Landsberger DM, Stupak N, Sinha R, McDerment G, **Johnson AM**, Galvin III JJ. *Vocal mimicry of a cochlear implant*. Poster presented at the 50th Annual Scientific and Technology Meeting of the American Auditory Society. Scottsdale, AZ.