

## Curriculum Vitae

Notarization. I have read the following and certify that this *curriculum vitae* is a current and accurate statement of my professional record.

Signature: 

Date: 7/11/2024

### **I. Personal Information**

#### I.A. UID, Last Name, First Name, Middle Name, Contact Information

UID: 112816780

Lefrak Hall 0119B  
(301) 405-4224  
sander22@umd.edu

#### I.B. Academic Appointments at UMD

Hearing and Speech Sciences  
Professor (2023 – present)  
Associate Professor (2018 – 2023)  
Assistant Professor (2013 – 2018)

Comparative and Evolutionary Biology of Hearing (CEBH) Training Program  
Member (2013 – present)

Neuroscience and Cognitive Science (NACS) Program  
Faculty Member (2013 – present)

Language Science Center (LSC)  
Faculty Member (2014 – present)

#### I.C. Administrative Appointments at UMD

Chair (2024 – present)  
Director of Graduate Studies (2021 – 2024)

#### I.D. Other Employment

2009-2012, Graduate Research Assistant, Northwestern University  
2007-2009, Teaching Assistant, Northwestern University  
2000-2006, Facilitator, University of Florida, Doctor of Audiology program  
1997-2007, Clinical Audiologist, Allina Medical Clinics, Faribault and Northfield, MN  
1995-1997, Private Practice Audiologist, Center for Better Hearing, Inc., Faribault, MN  
1982-1995, Clinical Audiologist, State of Minnesota

#### I.E. Educational Background

2012 Ph.D. Communication Sciences and Disorders, Northwestern University, Evanston, IL  
2000 Au.D. Audiology, University of Florida, Gainesville, FL  
1981 M.A. Speech and Hearing Sciences, Indiana University, Bloomington, IN  
1979 B.A. Speech and Hearing Sciences, Indiana University, Bloomington, IN

#### I.G. Professional Certifications, Licenses, and Memberships

2013 Department of Health and Mental Hygiene, Audiologist, State of Maryland  
1981 Audiologist, American Speech-Language-Hearing Association, CCC-A

## II. Research, Scholarly, Creative and/or Professional Activities

Note: underlined names denote mentoring of doctoral students and postdoctoral fellows and \*asterisks placed before names denote mentoring of undergraduate students.

### II.A. Books

#### II.A.2. Books Edited

1. Kraus, N., **Anderson, S.**, White-Schwoch, T., Fay, R.R., Popper, A.N. (Eds.) (2017). *The Frequency-Following Response: A Window into Human Communication*. Springer International Publishing, Cham, Switzerland.

### II.B. Chapters

#### II.B.1. Books

1. Kraus, N. and **Anderson, S.** (2016). "Auditory processing disorder: Biological basis and treatment efficacy," in *Translational Research in Audiology and the Hearing Sciences: An Essential Guide for Scientists and Clinicians* by LePrell et al. (Springer International Publishing, Cham, Switzerland).
2. Kraus, N. and **Anderson, S.**, White-Schwoch, T. (2017). "The Frequency-Following Response: A window into human communication," in *The Frequency-Following Response: A Window into Human Communication* by Kraus et al. (Springer International Publishing, Cham, Switzerland).
3. **Anderson, S.** (2017). "Clinical translation: Aging, hearing loss, and amplification," in *The Frequency-Following Response: A Window into Human Communication* by Kraus et al. (Springer International Publishing, Cham, Switzerland).

### II.C. Articles in Refereed Journals

#### II.C.1. Refereed Journal Articles (Note: Online publications have DOIs in place of page numbers)

1. **Anderson, S.**, Skoe, E., Chandrasekaran, B., and Kraus, N. (2010). "Neural timing is linked to speech perception in noise," *J. Neurosci.* 30, 4922-4926.
2. **Anderson, S.**, Skoe, E., Chandrasekaran, B., Zecker, S., and Kraus, N. (2010). "Brainstem correlates of speech-in-noise perception in children," *Hear. Res.* 270, 151-157.
3. **Anderson, S.**, Chandrasekaran, B., \*Yi, H.-G., and Kraus, N. (2010). "Cortical-evoked potentials reflect speech-in-noise perception in children," *Eur. J. Neurosci.* 32, 1407-1413.
4. **Anderson, S.** and Kraus, N. (2010). "Objective neural indices of speech-in-noise perception." *Trends Amplif.* 14, 73-83.
5. **Anderson, S.** and Kraus, N. (2010). "Sensory-cognitive interaction in the neural encoding of speech in noise: A review," *J. Am. Acad. Audiol.* 21, 575-585.
6. **Anderson, S.**, Parbery-Clark, A., \*Yi, H.-G., and Kraus, N. (2011). "A neural basis of speech-in-noise perception in older adults," *Ear Hear.* 32, 750-757.
7. Parbery-Clark, A., Strait, D., **Anderson, S.**, Hittner, E., and Kraus, N. (2011). "Musical experience and the aging auditory system: Implications for cognitive abilities and hearing speech in noise," *Plos ONE* 6, e18082.
8. **Anderson, S.**, Parbery-Clark, A., White-Schwoch, T., and Kraus, N. (2012). "Aging affects neural precision of speech encoding," *J. Neurosci.* 32, 14156-14164.
9. Parbery-Clark, A., **Anderson, S.**, Hittner, E., and Kraus, N. (2012). "Musical experience offsets age-related delays in neural timing," *Neurobiol. Aging* 33, 1483.e1-4.

10. Parbery-Clark, A., **Anderson, S.**, Hittner, E., and Kraus, N. (2012). "Musical experience strengthens the neural representation of sounds important for communication in middle-aged adults," *Front. Aging Neurosci.* 4, 1-12.
11. Hornickel, J., **Anderson, S.**, Skoe, E., \*Yi, H.-G., and Kraus, N. (2012). "Subcortical representation of speech fine structure relates to reading ability," *NeuroReport* 23, 6-9.
12. **Anderson, S.**, White-Schwoch, T., Parbery-Clark, A., and Kraus, N. (2013). "Reversal of age-related neural timing delays with training," *Proc. Natl. Acad. Sci. USA* 110, 4357-4362.
13. **Anderson, S.**, White-Schwoch, T., \*Choi, H J., and Kraus, N. (2013). "Training changes processing of speech cues in older adults with hearing loss," *Front. Syst. Neurosci.* 7, 1-9.
14. **Anderson, S.**, Parbery-Clark, A., White-Schwoch, T., Drehobl, S., and Kraus, N. (2013). "Effects of hearing loss on the subcortical representation of speech cues," *J. Acoust. Soc. Am.* 133, 3030-3038.
15. **Anderson, S.**, White-Schwoch, T., Parbery-Clark, A., and Kraus, N. (2013). "A dynamic auditory-cognitive system supports speech-in-noise perception in older adults," *Hear. Res.* 300, 18-32.
16. **Anderson, S.**, Parbery-Clark, A., White-Schwoch, T., and Kraus, N. (2013). "Auditory brainstem response to complex sounds predicts self-reported speech-in-noise performance," *J. Speech Lang. Hear. Res.* 56, 31-43.
17. White-Schwoch, T., Woodruff, K., **Anderson, S.**, Strait, D., and Kraus, N. (2013). "Older adults benefit from music training early in life: Biological evidence for long-term training-driven plasticity," *J. Neurosci.* 33, 17667-17674.
18. **Anderson, S.** and Kraus, N. (2013). "The potential role of the cABR in assessment and management of hearing impairment," *Int. J. Otolaryngol.* 2013, 604729.
19. **Anderson, S.** and Kraus, N. (2013). "Auditory training: Evidence for neural plasticity in older adults," *Perspect. Hear. Hear. Disord. Res. Res. Diagn.* 17, 37-57.
20. Parbery-Clark, A., **Anderson, S.**, and Kraus, N. (2013). "Musicians change their tune: How hearing loss alters the neural code," *Hear. Res.* 302, 121-131.
21. **Anderson, S.**, White-Schwoch, T., \*Choi, H J., and Kraus, N. (2014). "Partial maintenance of auditory-based cognitive training benefits in older adults," *Neuropsychologia* 62, 286-296.
22. Skoe, E., Krizman, J., **Anderson, S.**, and Kraus, N. (2015). "Stability and plasticity of auditory brainstem function across the lifespan," *Cereb. Cortex* 25, 1415-26.
23. White-Schwoch, T., Woodruff Carr, K., Thompson, E., **Anderson, S.**, Nicol, T., Bradlow, A., Zecker, S., and Kraus, N. (2015). "Auditory processing in noise: A pre-school biomarker for literacy." *PLOS Biol.* 13, e1002196.
24. **Anderson, S.**, Parbery-Clark, P., White-Schwoch, T., and Kraus, N. (2015). "Development of subcortical speech representation in infant humans," *J. Acoust. Soc. Am.* 137, 3346-55.
25. **Anderson, S.** and Jenkins, K. (2015). "Electrophysiological assessment of auditory training benefits in older adults," *Semin. Hear.* 36, 250-262.
26. Presacco, A., Jenkins, K., Lieberman, R., and **Anderson, S.** (2015). "Effects of aging on the encoding of dynamic and static components of speech," *Ear Hear.* 36, e352-63.
27. Presacco, A., Simon, J.Z., and **Anderson, S.** (2016). "Evidence of degraded representation of speech in noise, in aging midbrain and cortex," *J. Neurophysiol.* 116, 2346-2355.
28. Presacco, A., Simon, J.Z., and **Anderson, S.** (2016). "Effect of informational content of noise on speech representation in the aging midbrain and cortex," *J. Neurophysiol.* 116, 2356-2367.

29. Presacco, A., Innes-Brown, H., Goupell, M.J, and **Anderson, S.** (2017). “Effects of stimulus duration on event-related potentials recorded from cochlear-implant users,” *Ear Hear.* 38, e389-e393.
30. Goupell, M.J., Gaskins, C.R., Shader, M.J., \*Walter, E.P., **Anderson, S.**, and Gordon-Salant, S. (2017). “Age-related differences in the processing of temporal envelope and spectral cues in a speech segment,” *Ear Hear.* 38, e335-342.
31. Van Dyke, K., Lieberman, R., Presacco, A., and **Anderson, S.** (2017). “Development of phase locking and frequency representation in the infant Frequency-Following Response,” *J. Speech Lang. Hear. Res.* 60, 2740-2751.
32. Jenkins, K., Fodor, C., Presacco, A., and **Anderson, S.** (2018). “Effects of amplification on neural phase locking, amplitude, and latency to a speech syllable,” *Ear Hear.* 39, 810-824.
33. Karawani, H., Jenkins, K. A., and **Anderson, S.** (2018). "Neural and behavioral changes after the use of hearing aids," *Clin. Neurophysiol.* 129, 1254-1267.
34. Karawani, H., Jenkins, K., and **Anderson, S.** (2018). "Restoration of sensory input may improve cognitive and neural function," *Neuropsychologia* 114, 203-213.
35. **Anderson, S.** (2018). "The role of electrophysiology in the assessment of age-related deficits in speech perception," *Perspect ASHA Spec Interest Groups.* 3, 28-42.
36. **Anderson, S.**, Ellis, R.B., \*Mehta, J., and Goupell, M.J. (2018). “Age-related differences in binaural masking level differences: Behavioral and electrophysiological evidence,” *J. Neurophysiol.*, 120, 2939-2952.
37. Brodbeck, C. Presacco, A., **Anderson, S.**, and Simon, J.Z. (2018). “Over-representation of speech in older adults originates from early response in higher order auditory cortex,” *Acta Acustica* 104, 774-777.
38. Gaskins, C., Jaekel, B.N., Gordon-Salant, S., Goupell, M.J., and **Anderson, S.** (2019). “Effects of aging on perceptual and electrophysiological responses to acoustic pulse trains as a function of rate,” *J. Speech Lang. Hear Res.* 62, 1087-1098.
39. Roque, L., Gaskins, C. Gordon-Salant, S., Goupell, M.J., and **Anderson, S.** (2019). “Age effects on neural representation and perception of silence duration cues in speech,” *J. Speech Lang. Hear Res.* 62, 1099-1116.
40. Presacco, A., Simon, J.Z., and **Anderson, S.** (2019). “Effect of hearing loss on speech-in-noise representation in the aging midbrain and cortex,” *Plos ONE* 14, e0213899.
41. White-Schwoch, T., **Anderson, S.**, Krizman, J., Nicol, T., and Kraus, N. (2019). “Case studies in neuroscience: Subcortical origins of the frequency-following response.” *J. Neurophys.* 122, 844-848.
42. Roque, L., Karawani, H., Gordon-Salant, S., and **Anderson, S.** (2019). “Effects of age, cognition, and neural encoding on the perception of a temporal speech cue,” *Front. Aging Neurosci.* 13, 749.
43. Shader, M. J., Nguyen, N., Hertzano, R., Eisenman, D. J., **Anderson, S.**, Gordon-Salant, S., and Goupell, M. J. (2019). “Lower stimulation rates improve speech understanding in low-performing cochlear-implant users,” *Ear Hear.* 41, 640-651.
44. Zan, P., Presacco, A., **Anderson, S.**, and Simon, J.Z. (2019). “Mutual information analysis of neural representations of speech in noise in the aging midbrain,” *J. Neurophys.* 122, 844-848.
45. Xie, Z., Gaskins, C.R., Shader, M.J., Gordon-Salant, S., **Anderson, S.**, and Goupell, M. J. (2019). “Age-related temporal processing deficits in word segments in adult cochlear-implant users,” *Trends Hear.* 23, 1-19.
46. White-Schwoch, T., **Anderson, S.**, and Kraus, N. (2020). “Long-term follow-up of a patient with auditory neuropathy and normal hearing thresholds,” *JAMA Otolaryngol. Head Neck Surg.* 146, 499-501.

47. **Anderson, S., Roque, L., Gaskins, C.R.,** Gordon-Salant, S., and Goupell, M.J. (2020). "Age-related compensation mechanism revealed in the cortical representation of degraded speech," *J. Assoc. Res. Otolaryngol.* 21, 373-391.
48. Zan, P., Presacco, A., **Anderson, S.,** and Simon, J. Z. (2020). "Exaggerated cortical representation of speech in older listeners: Mutual information analysis," *J. Neurophysiol.* 124, 1152-1164.
49. Kulasingham, J. P., Brodbeck, C., Presacco, A., Kuchinsky, S. E., **Anderson, S.,** and Simon, J. Z. (2020). "High gamma cortical processing of continuous speech in younger and older listeners," *NeuroImage* 222, 117291.
50. White-Schwoch, T., **Anderson, S.,** and Kraus, N. (2020). "Long-term follow-up of a patient with auditory neuropathy and normal hearing thresholds," *JAMA Otolaryngol. Head Neck Surg.* 146, 499-501.
51. **Anderson, S.,** and Karawani, H. (2020). "Objective evidence of temporal processing deficits in older adults," *Hear Res* 397, 108053.
52. **Anderson, S.,** Bieber, R.B., and Schloss (2021). "Peripheral deficits and phase-locking declines in aging adults," *Hear. Res.* 403, 108188.
53. Xie, Z., Stakhovskaya, O. Goupell, M.J., and **Anderson, S.** (2021). "Aging effects on cortical responses to tones and speech in adult cochlear-implant users," *J. Assoc. Res. Otolaryngol.* 22, 719-740.
54. White-Schwoch, T., **Anderson, S.,** Krizman, J., Bonacina, S., Nicol, T., Bradlow, A., and Kraus, N. (2021). "Multiple cases of auditory neuropathy illuminate the importance of subcortical neural synchrony for speech-in-noise recognition and the frequency-following response," *Ear Hear.* 43, 605-619.
55. Devries, L., **Anderson, S.,** Goupell, M.J., Smith, E., Gordon-Salant, S. (2022). "Effects of aging and hearing loss on perceptual and electrophysiological pulse rate discrimination," *J. Acoust. Soc. Am.* 151, 2149.
56. Bieber, R.L., Brodbeck, C., and **Anderson, S.** (2022), "Examining the context benefit in older adults: A combined behavioral-electrophysiologic word identification study," *Neuropsychologia* 170, 108224.
57. Xie, Z., **Anderson, S.,** and Goupell, M.J. (2022), "Stimulus context affects the phonemic categorization of temporally based word contrasts in adult cochlear-implant users," *J. Acoust. Soc. Am.* 151, 2149.
58. Karawani, H., Jenkins, K.A., and **Anderson, S.** (2022). "Neural acclimatization to hearing aids" *Front. Aging Neurosci.* 19, 884917.
59. **Anderson, S.,** DeVries, L., Smith, E., Goupell M.J., Gordon-Salant, S. (2022) "Rate discrimination training may partially restore temporal processing abilities from age-related deficits," *J. Assoc. Res. Otolaryngol,* 23, 771-786
60. Karunathilake, I.M., Dunlap, J.L., Perera, J., Presacco, A., **Anderson, S.,** Kuchinsky, S.E., and Simon, J.Z. (2023). "Effects of aging on cortical representations of continuous speech," *J. Neurophysiol.* 12, 1359-1377.
61. Zhou, M., Suleimanpour, R., Mahajan, A., and **Anderson, S.** (2024). "Effects of hearing aid delay times on neural processing," *Ear Hear,* 45(1):142-150
62. Poe, A., Karawani, H., and **Anderson, S.** (2024). "Aging effects on neural representation of consonant transitions," *Hear Res,* 448:109034, doi: 10.1016/j.heares.2024.109034
63. Johns MA, Calloway RC, Karunathilake IMD, Decruy LP, Anderson S, Simon JZ, Kuchinsky SE. (2024). Attention Mobilization as a modulator of listening effort: evidence from pupillometry. *Trends Hear.* doi: 10.1177/23312165241245240
64. Xie, Z, Gaskins, C., Tinnemore, T., Shader, M., Gordon-Salant, S.G., **Anderson, S.,** Goupell, M.J. (2024) "Spectral degradation and carrier sentences increase age-related temporal processing deficits in a cue-specific manner." *JASA,* 155(6): 3983-3994

65. **Anderson, S.**, Cavaletti, G., Hood, L.J., Polydefkis, M., Hermann, D.N., Rance, G., King, B., McMichael, A.J., Senna, M.M., Kim, B.S., Napatalung, L., Wolk, R., Zwillich, S.H., Schaefer, G., Gong, Y., Sisson, M., Posner, H.B. (2024) "A Phase 2a, randomized, double-blind, placebo-controlled study investigating the safety of ritlecitinib in adults with alopecia areata." *Pharm Res Persp*, 12(4): e1204

II.C.4. Other - Manuscripts in Preparation or Submission

1. **Gibbs, B., Anderson, S.**, and Gordon-Salant, S. 2023. "Demographic Differences in Hearing Thresholds Compared to Suprathreshold Measures." *PsyArXiv*. May 5. doi:10.31234/osf.io/5mbes.

II.D. Published Conference Proceedings

II.D.1. Refereed Conference Proceedings

1. **Anderson, S.** and Kraus, N. (2010). "Neural encoding of speech and music: Implications for hearing speech in noise," *Semin. Hear.* 32, 129-141.

II.D.2. Non-Refereed Conference Proceedings

1. **Anderson, S.** and Kraus, N. (2012). "cABR: A neural probe of speech-in-noise processing," in *Proceedings of ISAAR 2011: Speech perception and auditory disorders* by Dau et al. (ISAAR 2011 International Symposium on Auditory and Audiological Research, August 2011, Nyborg, DK).

II.E. Conferences, Workshops, and Talks

II.E.1. Keynotes

1. **Anderson, S.** "Music and speech-in-noise perception," 7th International Adult Aural Rehabilitation Conference: Maximizing the Benefits of Technology through Innovative Intervention, St. Pete Beach, FL, May 2013.
2. **Anderson, S.** "Central assessment of auditory function across the lifespan," The Newfoundland and Labrador Association of Speech-Language Pathologists and Audiologists 36th Annual Conference, St. John's, Newfoundland, September 2014.
3. **Anderson, S.** "Use of the cABR in the assessment and management of auditory function," Upper Midwest Audiology Conference, Bloomington, MN, February 2015.
4. **Anderson, S.** "Evaluation of neural adaptation in new hearing aids users," XIIth International Meeting on Auditory Prostheses, Sao Paulo, Brazil, June 2015.
5. **Anderson, S.** "Objective assessment of central auditory function in children," Missouri Academy of Audiology Scope of Practice, St. Louis, MO, September 2015.
6. **Anderson, S.** "Aging effects on the hearing brain: Clinical implications," NIDCD/UMD Joint Meeting, College Park, MD, October 2016.
7. **Anderson, S.** "Effects of age and training on auditory processing from brainstem to cortex," Hearing4All Symposium, Oldenburg, Germany, November 2021.
8. **Anderson, S.**, "Clinical applications of the FFR for older listeners," FFR Workshop, Chicago, IL 2024.

II.E.2. Invited Talks

1. **Anderson, S.** and Kraus, N. "cABR - A neural probe of auditory processing," *Audition, Listening and Language Acquisition in Children: Nature, Assessment and Multidisciplinary Approach*, Edinburgh, Scotland, March 2011.
2. Kraus, N., **Anderson, S.**, and Parbery-Clark, A. "Hearing in noise across the lifespan and impact of musical experience," *AudiologyNOW*, Chicago, IL, March 2011.
3. **Anderson, S.** and Kraus, N. "Neural correlates of speech-in-noise perception across the lifespan," *International Congress of Audiology and Otolaryngology*, Bogota, Columbia, October 2011.

4. **Anderson, S.** and Kraus, N. “Neural correlates of auditory function and training in older adults,” Ear Day at Rush University, Chicago, IL, November 2012.
5. **Anderson, S.**, and Levitt, H. “Auditory training: Evidence for neural plasticity in older adults,” ASHA Live Event, August 2013.
6. **Anderson, S.** “Neural correlates of auditory function,” Kaiser Permanente Regional Audiology Conference, Oakland, CA, May 2014.
7. **Anderson, S.** “Neural correlates of auditory function: cABR assessment,” 4th National ENT Physician Association Annual Congress, Beijing, China, October 2014.
8. Presacco, A., Simon, J.Z., and **Anderson, S.** “Effects of aging on temporal synchronization of speech in noise investigated in the cortex by using MEG and in the midbrain by using EEG techniques,” Universitas 21 Graduate Research Conference 2014: Celebrating Ageing Research, University of Auckland, New Zealand. \*Travel award.
9. **Anderson, S.** “Biologic index of auditory processing disorders in children,” Rhode Island Hearing Assessment Program 21st Annual Seminar, Providence, RI, May 2015.
10. **Anderson, S.** “What can evoked potentials tell you about the hearing aid fitting?” Maryland Academy of Audiology Annual Conference, Baltimore, MD, October 2015.
11. **Anderson, S.** “Electrophysiologic evaluation of auditory function across the lifespan,” SHAV Conference, Chantilly, VA, March 2016.
12. **Anderson, S.** “Amplification effects on neural processing,” American Academy of Audiology conference, Phoenix, AZ, April 2016.
13. **Anderson, S.** “Effects of aging, hearing loss, and amplification on neural speech encoding,” Saskatchewan Hearing Healthcare Conference, Regina, SK, June 2016.
14. **Anderson, S.** “Aging, cognition, and hearing loss: Clinical implications,” Michigan Audiology Coalition Conference, East Lansing, MI, October 2016.
15. **Anderson, S.** “Evoked potential testing and the hearing brain,” 18th Annual Texas Academy of Audiology Conference, San Marcos, TX, October 2017.
16. **Anderson, S.** “Beyond the audiogram: Identifying the critical factors that contribute to successful management of hearing loss,” 2017 ACSLPA conference, Edmonton, AB, October 2017.
17. Ananthakrishnan, S., Easwar, V., and **Anderson, S.** “Beyond the audiogram: Clinical applications of the frequency-following response,” 2017 ASHA Convention, Los Angeles, CA, November 2017.
18. **Anderson, S.** “New directions in audiological practice: Role of evoked potentials,” SHAV Conference, Williamsburg, VA, March 2018.
19. Karawani, H., Roque, L., Schloss, A., and **Anderson, S.**, “Age-related temporal processing deficits along the auditory pathway,” Association for Research in Otolaryngology MidWinter Meeting, Baltimore, MD, February 2019.
20. Brodbeck, C., Presacco, A., **Anderson, S.**, and Simon, J.Z., “Increased speech representation in older adults originates from early response in higher order auditory cortex,” Association for Research in Otolaryngology MidWinter Meeting, Baltimore, MD, February 2019.
21. **Anderson, S.**, “Aging and hearing loss effects on neural speech processing,” Acoustical Society of America, Louisville, KY, May 2019.
22. **Anderson, S.**, “Does hearing aid use improve brain function?” Sounds+ Conference, Halifax, Nova Scotia, June 2019.
23. **Anderson, S.**, “Beyond the Audiogram: New directions in audiological practice,” Kaiser Permanente Audiology Virtual Conference, May 2020.
24. **Anderson, S.**, “Beyond the Audiogram, Effects of aging and hearing loss on central auditory function,” New Zealand Audiological Society Virtual Conference, July 2020
25. **Anderson, S.**, “Age-related hearing loss: Problems and solutions,” Hearing Health Hour of the Hearing Health Foundation, October 2020.

26. **Anderson, S.**, “Why can’t I hear in noise? Looking for answers beyond the audiogram,” Northeast Audiology Virtual Conference, November 2020.
27. **Anderson, S.**, “Potential uses of the speech-evoked brainstem responses in early identification of auditory processing disorders,” cABR CAPD Annual Workshop, online, January 2021.
28. **Anderson, S.**, “Beyond the audiogram: New directions in audiological practice,” Hearing research in the lab, the clinic, and the real world, University of Haifa, online, May, 2021
29. **Anderson, S.**, “New approaches to objective diagnosis of hearing disorders in older adults,” American Speech-Language-Hearing Association Convention, Washington, D.C., November 2021
30. **Anderson, S.**, “Incorporation of the cABR/FFR and other electrophysiological assessments in evaluation of auditory function across the lifespan,” Emerging Trends in Evaluation and Management of Central Auditory Processing Disorder (CAPD), online, January 2022.
31. **Anderson, S.**, “Neuroplasticity and Auditory Aging.” John Niparko/Karin Young Lecture, Johns Hopkins University, March 2023.
32. **Anderson, S.**, “Electrophysiological advances to improve management with hearing aids and cochlear implants,” 4th Annual Audiology Conference Centering Central Auditory Processing: From Research to Evidence-Based Practice, online, April 2023.
33. **Anderson, S.**, “Auditory aging: Timing is (almost) everything,” Symposium in honor Sandra Gordon-Salant, University of Maryland, May 2023.

#### II.E.3. Refereed Presentations

1. **Anderson, S.** and Kraus, N. “Training improves brainstem timing in older adults,” Illinois Academy of Audiology Annual Conference, Chicago, IL, January 2012.
2. **Anderson, S.** and Kraus, N. “Training effects in older adults: Neural mechanisms,” American Auditory Society Annual Meeting, Scottsdale, AZ, March 2013.
3. **Anderson, S.** “What can the cABR tell us about temporal processing deficits in older adults?” American Speech-Language-Hearing Association Convention, Orlando, FL, November 2014.
4. **Presacco, A., Jenkins, K., Lieberman, R., and Anderson, S.** “The effects of aging on dynamic and static encoding of speech processing,” MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA, February 2014. \*Travel award.
5. \*Gaskins, C., **Shader, M.**, Gordon-Salant, S., **Anderson, S.**, and Goupell, M.J. “Age-related differences in consonant perception in real and simulated cochlear-implant users,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2015.
6. **Shader, M.**, Nguyen, N., Hertzano, R., Eisenman, D., **Anderson, S.**, Gordon-Salant, S., and Goupell, M.J. “Do lower stimulation rates improve speech understanding in typically low-performing groups of cochlear-implant users?” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2015.
7. **Anderson, S.** and Goupell, M.J. “Effects of aging and bandwidth on the binaural masking level difference assessed with electrophysiological and psychophysical measures,” Association for Research in Otolaryngology Midwinter Meeting, San Diego, CA, February 2016.
8. **Karawani, H., Jenkins, K., and Anderson, S.** “Neural and behavioral changes after the use of hearing aids,” Eastern Auditory Retreat, Washington, D.C., June 2017.



9. **Anderson, S., Kronzek, E., Chisholm, J.,** Gordon-Salant, and Goupell, M. “Training effects on perception and neural representation of temporal speech cues,” Aging and Speech Communication Research Conference, Tampa, FL, November 2017.
10. **Anderson, S., Roque, L., Schloss, A., and Karawani, H.** “Aging effects on neural representation and perception of duration cues in speech,” Association for Research in Otolaryngology Midwinter Meeting, San Diego, CA, February 2018.
11. **Karawani, H., Roque, L., Schloss, A., and Anderson, S.** “Age-related temporal processing deficits revealed in cortical auditory evoked potentials,” American Auditory Society, Scottsdale, AZ, March 2018.
12. **Anderson, S., Kronzek, E., Chisholm, J.,** Gordon-Salant, and Goupell, M. “Training effects on perception and neural representation of temporal speech cues,” Gordon Research Conference: Neuroplasticity of Sensory Systems, Hong Kong, June 2018.
13. **Karawani, H. and Anderson, S.,** “Neural acclimatization to hearing aids,” Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, February 2020.
14. **Anderson, S., Perera, J., Kuchinsky, S., and Simon, J.Z.,** “Central compensation underlies over-representation of speech signals in the aging auditory cortex,” Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, February 2022.

#### II.E.6. Refereed Posters

1. **Anderson, S., Skoe, E., Zecker, S., and Kraus, N.** “Brainstem encoding of speech in noise and its relationship to reading and listening in noise,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2009.
2. **Anderson, S., Chandrasekaran, B., \*Yi, H.-G., and Kraus, N.** “Cortical evoked auditory processing: Index of neural efficiency in speech-in-noise perception,” Society for Neuroscience Annual Meeting, Chicago, IL, October 2009.
3. **Anderson, S., Parbery-Clark, A., Skoe, E., and Kraus, N.** “Brainstem correlates of speech-in-noise perception in older adults,” National Center for Rehabilitative Auditory Research Conference: The Ear-Brain System, Portland, OR, October 2009.
4. **Anderson, S., Parbery-Clark, A., Skoe, E., and Kraus, N.** “Brainstem correlates of speech-in-noise perception in older adults,” Aging and Speech Communication Conference, Bloomington, IN, October 2009.
5. **Anderson, S. and Kraus, N.** “Speech-in-noise difficulties in older adults: Biological insights,” American Auditory Society Annual Meeting, Scottsdale, AZ, March 2010.
6. **Anderson, S., Skoe, E., Parbery-Clark, A., and Kraus, N.** “Neural signatures of speech-in-noise perception in older adults,” MidWinter Meeting for the Association for Research in Otolaryngology, Anaheim, CA, February 2010.
7. **Anderson, S. and Kraus, N.** “Training improves neural timing in older adults,” Aging and Speech Communication Conference,” Bloomington, IN, October 2011.
8. **Anderson, S., Parbery-Clark, A., Hittner, E., and Kraus, N.** “A structural equation modeling approach to understanding speech-in-noise perception in older adults,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2011.
9. Parbery-Clark, A., **Anderson, S., Strait, D., Hittner, E., and Kraus, N.** “Benefits of musical training for speech-in-noise perception in middle-aged adults,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2011.
10. Parbery-Clark, A., **Anderson, S., Hittner, E., and Kraus, N.** “Musical training offsets age-related decline in neural timing,” Music, Science and Medicine: Frontiers in

- Biomedical Research and Clinical Applications. New York Academy of Sciences, New York, March 2011.
11. Parbery-Clark, A., Hittner, E., Strait, D., **Anderson, S.**, and Kraus, N. "Musical training and the aging auditory system: Implications for cognitive abilities and hearing speech in noise," Music, Science and Medicine: Frontiers in Biomedical Research and Clinical Applications. New York Academy of Sciences, New York, March 2011.
  12. **Anderson, S.**, Parbery-Clark, A., White-Schwoch, T., and Kraus, N. "Sensory-cognitive interactions predict speech-in-noise perception: A structural equation modeling approach," Cognitive Neuroscience Society Annual Meeting, Chicago, IL, April 2012.
  13. **Anderson, S.**, Parbery-Clark, A., \*Choi, H.J., and Kraus, N. "Neural precision with auditory training in older adults," MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA, February 2012.
  14. Parbery-Clark, A., **Anderson, S.**, and Kraus, N. "Age-related increases in neural response variability are mitigated by musical experience," Association for Psychological Science Convention, Chicago, IL, May 2012.
  15. Parbery-Clark, A., **Anderson, S.**, Hittner, E., White-Schwoch, T., and Kraus, N. "Musical experience across the lifespan: implications for perceptual and cognitive abilities," Cognitive Neuroscience Society Annual Meeting, Chicago, IL, May 2012.
  16. White-Schwoch, T., **Anderson, S.**, Parbery-Clark, A., and Kraus, N. "Working memory relates to neural timing in older adults," Cognitive Neuroscience Society Annual Meeting, Chicago, IL, May 2012.
  17. Parbery-Clark, A., **Anderson, S.**, Hittner, E., and Kraus, N. "Perceptual and cognitive advantages in adult musicians across the life-span," MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA, February 2012.
  18. **Anderson, S.**, White-Schwoch, T., and Kraus, N. "Training reverses central processing effects of sensorineural hearing loss in older adults," MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, February 2013.
  19. **Anderson, S.** and Kraus, N. "Maintenance of auditory-based cognitive training in older adults," Aging and Speech Communication Conference, Bloomington, IN, October 2013.
  20. White-Schwoch, T., Woodruff, K., **Anderson, S.**, and Kraus, N. "Musical training early in life protects against age-related declines in cognition and neural speech processing," Cognitive Neuroscience Society Meeting, San Francisco, CA, May 2013.
  21. Parbery-Clark, A., **Anderson, S.**, and Kraus, N. "What musicians reveal about the aging brain: Behavioral and neural indices," MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2013.
  22. Skoe, E., Krizman, J., **Anderson, S.**, and Kraus, N. "Stability and plasticity of brainstem function across the lifespan," MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2013.
  23. White-Schwoch, T., **Anderson, S.**, and Kraus, N. "Auditory-based cognitive training improves the subcortical differentiation of stop consonants in older adults," MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2013.
  24. Parbery-Clark, A., **Anderson, S.**, and Kraus, N. "Musical experience and hearing loss: Perceptual, cognitive and neural benefits," MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA, February 2014.
  25. **Anderson, S.** and Kraus, N. "Development of subcortical speech representation in infants," American Auditory Society Annual Conference, Scottsdale, AZ, March 2014.
  26. Presacco, A. and **Anderson, S.** "Effects of aging on subcortical encoding of speech in noise," American Auditory Society Annual Conference, Scottsdale, AZ, March 2014.
- \*Mentored Student Presentation Award.

27. Lieberman R., Presacco, A., and **Anderson S.** “Brainstem differentiation of stop consonants during the first year of life,” American Auditory Society Annual Conference, Scottsdale, AZ, March 2014.
28. Jenkins, K., Presacco, A., and **Anderson, S.** “The efficacy of using auditory brainstem responses in the hearing aid evaluation,” Academy Research Conference, Orlando, FL, March 2014. \*Travel award.
29. \*Erhardt, K., Presacco, A., Simon, J.Z., and **Anderson, S.** “Differing effects of noise on subcortical speech representation in younger and older adults,” Society for Neuroscience Annual Meeting, Washington, D.C., November 2014.
30. Presacco, A., **Anderson, S.**, and Simon, J.Z. “Influence of aging on cortical auditory temporal processing of speech in noise,” Society for Neuroscience Annual Meeting, Washington, D.C., November 2014.
31. Presacco, A., Simon, J.Z, and **Anderson, S.** “Evidence of age-related temporal processing deficits in EEG and MEG recordings,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2015.
32. Jenkins, K., Presacco, A., and **Anderson, S.** “Effects of amplification on auditory evoked responses,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2015.
33. Jenkins, K. and **Anderson, S.** “Subcortical plasticity in first-time hearing aid users,” American Auditory Society Annual Conference, Scottsdale, AZ, March 2015. \*Mentored Student Presentation Award.
34. Presacco, A., Simon, J.Z, Gordon-Salant, S., and **Anderson, S.** “Interacting effects of aging and context on neural temporal processing,” American Auditory Society Annual Conference, Scottsdale, AZ, March 2015.
35. **Anderson, S.**, Presacco, A., and Goupell, M.J. “Aging effects on cortical speech processing in cochlear-implant users,” Aging and Speech Communication Conference, Bloomington, IN, October 2015.
36. Presacco, A., \*Eyiba, C., Simon, J.Z., and **Anderson, S.** “Effect of meaningful and meaningless noise on speech processing in auditory cortex and midbrain in younger and older adults,” Aging and Speech Communication Conference, Bloomington, IN, October 2015. \*Travel award.
37. Shader, M., Nguyen, N., Hertzano, R., Eisenmann, D., **Anderson, S.**, Gordon-Salant, S., and Goupell, M.J. “The effect of stimulation rate on speech recognition in older cochlear-implant users,” Aging and Speech Communication Conference, Bloomington, IN, October 2015.
38. Goupell, M., \*Gaskins, C., Shader, M., Presacco, A., **Anderson, S.**, and Gordon-Salant, S. “Gap detection in cochlear-implant users reveals age-related central temporal processing deficits,” Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July 2015.
39. Presacco, A., Simon, J.Z., and **Anderson, S.** “Effects of meaningful vs. meaningless noise on speech representations in the aging midbrain and cortex,” MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA, February 2016.
40. **Anderson, S.**, Gordon-Salant, S., \*Gaskins, C., and Goupell, M.J. “Neural correlates of age-related changes in auditory temporal processing,” American Auditory Society Annual Conference, Phoenix, AZ, March 2016.
41. Fodor, C. and **Anderson, S.** “Effects of amplification on phase locking and response amplitude to a speech syllable,” American Auditory Society Annual Conference, Phoenix, AZ, March 2016. \*Mentored Student Presentation Award.
42. Presacco, A., Goupell, M.J., \*Gaskins, C., Shader, M., and **Anderson, S.** “Neural correlates of age-related perceptual deficits in cochlear implant users,” American Auditory Society Annual Conference, Phoenix, AZ, March 2016.

43. Bostic, K., Presacco, A., and **Anderson, S.** “Assessment of subcortical physiological discrimination and phase locking in infants,” Advances and Perspectives in Auditory Neuroscience Satellite Symposium of the Society for Neuroscience, San Diego, CA, November 2016.
44. Rosner, R.S., Bernstein Ratner, N., and **Anderson, S.** “Auditory brainstem encoding of stop consonants in infants and pace of later language development,” American Speech-Language-Hearing Association Convention, Philadelphia, PA, November 2016.
45. Presacco, A., Bostic, K., Simon, J.Z, and **Anderson, S.** “Effect of informational content of noise on neural speech representations, with and without peripheral hearing loss,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2017.
46. Gaskins, C., \*Walter, E., Gordon-Salant, S., **Anderson, S.**, and Goupell, M.J. “Temporal processing as a function of pulse rate and age: Behavior and electrophysiology,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2017.
47. Kuchinsky, S., Presacco, A., **Anderson, S.**, and Simon, J.Z. “Auditory-cognitive training alters the neural encoding of speech for older adults with normal hearing,” MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD, February 2017.
48. Roque, L., Goupell, M.J., and **Anderson, S.** “Neural representation of temporal cues: aging and spectral degradation effects,” American Auditory Society Annual Conference, Scottsdale, AZ, March 2017.
49. Karawani, H., Presacco, A., and **Anderson, S.** “Behavioral and neural plasticity induced by hearing aid use,” American Auditory Society Annual Conference, Scottsdale, AZ, March 2017.
50. Roque, L., Gaskins, C., Goupell, M.J., and **Anderson, S.** “Age and spectral degradation effects on neural representations of temporal speech cues,” Eastern Auditory Retreat, Washington, D.C., June 2017.
51. Presacco, A., Bostic, K., Simon, J., and **Anderson, S.**\* “Effect of informational content of noise on neural speech representation, with and without peripheral hearing loss,” U13 Bedside-to-Bench Conference Series: Sensory Impairment and Cognitive Decline, Bethesda, MD, October 2017. \*Selected as “Rising Star”
52. Stakhovskaya, O., \*McLean, I., Gaskins, C., Presacco, A., Shader, M., Goupell, M., and **Anderson, S.** “The effect of stimulation rate on electrophysiological responses in older cochlear-implant listeners,” Aging and Speech Communication Research Conference, Tampa, FL, November 2017.
53. Roque, L., Gaskins, C., Gordon-Salant, S., Goupell, M., and **Anderson, S.** “Aging effects on neural representation of temporal envelope and fine structure speech cues,” Aging and Speech Communication Research Conference, Tampa, FL, November 2017.
54. Gaskins, C., Walter, E., Gordon-Salant, S., **Anderson, S.**, Goupell, M. “Behavioral and electrophysiological representation of temporal processing as a function of rate and age,” Aging and Speech Communication Research Conference, Tampa, FL, November 2017.
55. Karawani, H., Jenkins, K., and **Anderson, S.** “Behavioral and neural plasticity induced by hearing aid use,” Association for Research in Otolaryngology Midwinter Meeting, San Diego, CA, February 2018.
56. Schloss, A., \*Yevsukov, V., and **Anderson, S.** “Peripheral role in temporal processing deficits,” American Auditory Society, Scottsdale, AZ, March 2018.

57. Gaskins, C., Roque, L., Goupell, M.J., and **Anderson, S.** “Age and spectral degradation effects on neural representations of temporal speech cues,” American Auditory Society, Scottsdale, AZ, March 2018.
58. Roque, L., \*Fraser, L., and **Anderson, S.** “Aging effects on neural representations of vowel duration speech cues,” American Auditory Society, Scottsdale, AZ, March 2018.
59. Kronzek, E., Chisholm, J., Gordon-Salant, S., Goupell, M.J., and **Anderson, S.** “Training effects on perception and neural representation of temporal speech cues,” American Auditory Society, Scottsdale, AZ, March 2018.
60. **Anderson, S., \*Poe, A., Roque, L., Le, Caitlin,** and Karawani, H. “Age-related degradation is more evident for speech stimuli with longer than with shorter consonant transitions,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
61. **Anderson, S., Presacco, A., DeVries, L.,** Goupell, M.J., Schapira, A., Robinson, R., \*Hernandez, R., and Gordon-Salant, S. “Experimental auditory training for older listeners using rate discrimination: effects on perceptual and neural measures,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
62. **Anderson, S.,** Goupell, M.J., Schapira, A., Robinson, R., \*Hernandez, R., and Gordon-Salant, S., “Blocked training, but not randomized training, leads to improvement in temporal rate discrimination and increased energy in auditory steady state responses,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
63. \*McClean, I., Goupell, M.J., **Anderson, S.,** and Stakhovskaya, O. “Effect of simulated interaural frequency mismatch on interaural time difference lateralization and the relationship to the amplitude of the binaural interaction component,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
64. Schloss, A., \*Fraser, L., and **Anderson, S.** “Role of the auditory periphery in self-assessment of hearing ability in younger and older adults,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
65. White-Schwoch, T., **Anderson, S.,** Krizman, J., Nicol, T., and Kraus, N., “Subcortical origins of the frequency-following response: Evidence from two case studies,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
66. Zan, P., Presacco, A., **Anderson, S.,** and Simon, J.Z., “Mutual information analysis of neural representations of speech in noise in the aging midbrain,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
67. Zan, P., Presacco, A., **Anderson, S.,** and Simon, J.Z., “Cortical over-representation of speech in older listeners correlates with a reduction in both behavioral inhibition and speech intelligibility,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
68. Xie, Z., Stakhavoskaya, O., Goupell, M., and **Anderson, S.** “Aging effects on the auditory evoked cortical potentials in cochlear-implant users,” Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD, February 2019.
69. Roque, L., and **Anderson, S.** “Effects of Age, Cognition, and Neural Encoding on Speech Perception,” American Auditory Society, Scottsdale, AZ, March 2019.
70. Kulasingham, J., Brodbeck, C., Presacco, A., **Anderson, S.,** and Simon, J.Z. “High frequency phase locking in auditory cortex to continuous speech,” Ninth International Workshop Statistical Analysis of Neuronal Data, Pittsburg, PA, May 2019.
71. Xie, Z., Stakhavoskaya, O., Goupell, M., and **Anderson, S.** “Age-related deficits in auditory cortical processing in cochlear-implant users,” 2019 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA., July 2019.

72. Kulasingham, J., Brodbeck, C., Presacco, A., **Anderson, S.**, and Simon, J.Z. “High frequency phase locking in auditory cortex to continuous speech,” Society for Neuroscience 2019, Chicago, IL, November 2019.
73. Xie, Z., **Anderson, S.**, Gordon-Salant, S., and Goupell, M.J. “Processing temporal cues for word identification in adult cochlear-implant users: Effects of aging and context,” Aging and Speech Communication Research Conference, Tampa, FL, November 2019.
74. **Anderson, S.**, DeVries, L., Goupell, M.J., Smith, E., and Gordon-Salant, S. “Temporal rate discrimination training effects on perception and neural encoding in younger and older listeners,” Aging and Speech Communication Research Conference, Tampa, FL, November 2019.
75. DeVries, L., Schapira, A., **Anderson, S.**, Goupell, M.J., Smith, E., and Gordon-Salant, S., “Assessing the time course of perceptual learning with pulse rate discrimination training in younger and older adults,” Aging and Speech Communication Research Conference, Tampa, FL, November 2019.
76. Bieber, R., Brodbeck, C., \*Yevsukov, V., and **Anderson S.**, “Effects of listener age, talker accent, and sentential context on lexical access,” Aging and Speech Communication Research Conference, Tampa, FL, November 2019.
77. Goupell, M.J., Shader, M.J., **Anderson, S.**, and Gordon-Salant, S., “Peripheral versus central age-related temporal processing deficits: Insights from cochlear-implant users,” Aging and Speech Communication Research Conference, Tampa, FL, November 2019.
78. White-Schwoch, T., **Anderson, S.**, Krizman, J., Bonacina, S., Nicol, T., and Kraus, N., “Subcortical synchrony drives speech-in-noise perception: Evidence from multiple cases of auditory neuropathy,” Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, February 2020.
79. **Anderson, S.**, Schloss, A., and Bieber, R., “Peripheral contributions to age-related reductions in phase locking,” Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, February 2020.
80. Xie, Z., **Anderson, S.**, Gordon-Salant, S., and Goupell, M.J., “Age-related temporal processing deficits for word segments in adult cochlear-implant users: Perceptual and electrophysiological evidence,” Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, February 2020.
81. Kulasingham, J., Brodbeck, C., Presacco, A., Kuchinsky, S. Anderson, S., and Simon, J.A., “High frequency cortical processing of continuous speech in younger and older listeners,” Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, February 2020.
82. Nguyen, N., Shields, C., Sohns, S., Borja, J., **Anderson, S.**, “Assessment of tinnitus outcomes with behavioral and objective measures,” American Auditory Society Conference, Scottsdale, AZ, March 2020.
83. Karunathilake, I.M., Dunlap, J., Perera, J., Presacco, A., Decruy, L., **Anderson, S.**, Kuchinsky, S., and Simon, J.Z., “Effects of aging on the cortical representation of continuous speech,” Association for Research in Otolaryngology Midwinter Meeting, Virtual, February 2021.
84. **Anderson, S.**, DeVries, L., Smith, E., Goupell, M.J., and Gordon-Salant, S., “Rate discrimination training may partially restore age-related temporal processing deficits,” Association for Research in Otolaryngology Midwinter Meeting, Virtual, February 2021.
85. Decruy, L., Karunathilake, I.M., Dunlap, J., Perera, J., **Anderson, S.**, Kuchinsky, S., and Simon, J.Z., “Pupil dilation, as a continuous measure of listening effort, during sustained attention to competing talkers,” Association for Research in Otolaryngology Midwinter Meeting, Virtual, February 2021.
86. Dunlap, J., Perera, J., Karunathilake, I.M., Simon, J.Z., Kuchinsky, S., **Anderson, S.**, “Relationships between subjective and objective measures of continuous speech

- understanding reveal age-related deficits,” Association for Research in Otolaryngology Midwinter Meeting, Virtual, February 2021.
87. Karunathilake, I.M., Dunlap, J., Perera, J., Presacco, A., Decruy, L., **Anderson, S.**, Kuchinsky, S., and Simon, J.Z., “Effects of aging on the cortical representation of continuous speech,” 8<sup>th</sup> International Symposium on Auditory Research, online, August 2021.
  88. Cohen, J.I., Ezenwa, A., DeVries, L. Smith, E.W., Goupell, M.J., **Anderson, S.**, and Gordon-Salant, S., “Auditory learning on a pulse rate discrimination training paradigm in younger and older adults,” American Speech-Language-Hearing Association convention, November, 2021.
  89. Calloway, R., Decruy, L., Karunathilake, I.M., Dunlap, J., **Anderson, S.**, Simon, J.Z., Kuchinsky, S., “Pupil diameter indexes time-course shifts in older adults’ sustained listening effort,” Society for Neuroscience convention, November, 2021.
  90. Sajjadi, E., **Anderson, S.**, “Aging and time compression: Subcortical and perceptual speech processing dynamics,” FFR Workshop, June, 2024.

#### II.E.8. Non-Refereed Presentations

1. **Anderson, S.** and Presacco, A. “Effects of stimulus degradation and aging on cortical encoding of speech,” Mid-Atlantic Seminar on Hearing, College Park, MD, January 2015.
2. **Anderson, S.**, Presacco, A., Shader, M., and Goupell, M.J. “Stimulation rate effects on cortical evoked potentials in cochlear-implant users,” Mid-Atlantic Seminar on Hearing, College Park, MD, January 2017.
3. **Anderson, S.**, Roque, L., Gaskins, C., and Goupell, M.J. “Spectral degradation effects on neural processing of temporal speech cues,” Mid-Atlantic Seminar on Hearing, College Park, MD, January 2018.
4. Xie, Z., Stakhavoskaya, O., Goupell, M., and **Anderson, S.** “Aging effects on the auditory evoked cortical potentials in cochlear-implant users,” Mid-Atlantic Seminar on Hearing, College Park, MD, February 2019

#### Non-Refereed Posters

1. Presacco, A., Jenkins, K., Lieberman, R., and **Anderson, S.** “Dynamic and static encoding of speech processing in younger and older adults,” Bridges, College Park, MD, November 2013.
2. Presacco, A., Jenkins, K., Lieberman, R., and **Anderson, S.** “Phase differences explain the effects of aging on dynamic and static encoding of speech processing,” Biomedical Engineering Society Meeting, Washington, D.C., October 2013.
3. Presacco, A., \*Erhardt, K., Jenkins, K., Lieberman, R., Simon, J.Z., and **Anderson, S.** “Effects of aging on cortical and subcortical encoding of speech in noise: an EEG and MEG study,” Neuroscience and Cognitive Science Research Day, College Park, MD, April 2014.
4. Mehta, J. and **Anderson, S.**, “Neural correlates of temporal processing in young adults,” Undergraduate Research Day, College Park, MD, April 2016.
5. Bostic, K., Presacco, A., Simon, J.Z., and **Anderson, S.** “Effects of hearing loss and aging on midbrain processing of speech in noise,” Language Science Day, College Park, MD, September 2016.

6. Zan, P., Presacco, A., Anderson, S., and Simon, J.Z. “Mutual information analysis of neural representations of speech in noise in the aging midbrain,” Annual Combine Symposium on Network Biology, College Park, MD, May 2018.



### I.I.E.13. Symposia

1. **Anderson, S.** and Kraus, N. “cABR: A neural probe of speech-in-noise processing,” ISAAR 2011 3rd International Symposium on Auditory and Audiological Research, Speech Perception and Auditory Disorders, Nyborg, Denmark, August 2011.
2. **Anderson, S.** and Kraus, N. “Auditory training for older adults,” The Inaugural MED-EL UK Rehabilitation Symposium, York, UK, October 2012.
3. **Anderson, S.** “Neural mechanisms of hearing loss and training and their clinical implications,” 8th Annual Hearing Symposium: Complex Auditory Processing and Disorders, Center for Hearing Research, University of California, Irvine, CA, May 2013.
4. **Anderson, S.** “Electrophysiological assessment of central auditory dysfunction,” Military Central Auditory Processing Symposium, Bethesda, MD, October 2016.
5. **Anderson, S.**, “Age-related deficits in neural processing revealed for specific temporal components of speech,” AESoP 2019 Symposium, Leuven, Belgium, September 2019.
6. **Kulasingham, J., Brodbeck, C., Presacco, A., Kuchinsky, S., Anderson, S., and Simon, J.Z.** “High frequency cortical processing of continuous speech in younger and older listeners,” AESoP 2019 Symposium, Leuven, Belgium, September 2019.
7. **Anderson, S.**, “Beyond the audiogram: New directions in audiological practice,” Hearing Research in the Lab, the Clinic, and the Real World, University of Haifa, online, May 2021.
8. **Anderson, S., Gordon-Salant, S., Simon, J.Z., Kuchinsky, S., Goupell, M.J.,** “Evidence of neuroplasticity in the aging brainstem and cortex,” Association for Research in Otolaryngology Midwinter Conference, February 2024.

### Workshops

9. **Anderson, S.** and Kraus, N. “Brainstem correlates of speech-in-noise perception,” Auditory Temporal Processing in Normal and Impaired Ears, TFS Workshop at École Normale Supérieure, Département d’Études Cognitives, Paris, France, December 2009.
10. **Anderson, S.** and Kraus, N. “The essential audiologists workshop: cABR, MLR, and LLR,” Minnesota Speech and Hearing Association conference, Burnsville, MN, October 2012.
11. **Anderson, S.,** and Kraus, N. “Music and speech-in-noise perception,” MED-EL UK 17th Annual Workshop, Zell am Ziller, Austria, January 2013.
12. **Anderson, S.** “Music: Impact on aging and hearing,” National Center for Creative Aging National Leadership Exchange and Conference, Washington, D.C., June 2014.
13. **Anderson, S.** “Introduction to occupational noise exposure,” 3<sup>rd</sup> Auditory and Vestibular Translational Research Day, Baltimore, MD, October 2017.
14. **Anderson, S.** “Interacting effects of aging, hearing loss, and cognition on midbrain and cortical processing,” Signal and Noise along the Auditory Pathway 2017, Lubeck, German, December 2017.

### I.I.E.14. Colloquia

1. **Anderson, S., Skoe, E., and Kraus, N.** “Hear with our brains, not just with our ears,” Northshore Senior Center, Skokie, IL, July 2008.
2. **Anderson, S., Skoe, E., and Kraus, N.** “Brainstem encoding of speech in noise and its relationship to reading and listening in noise,” CSD Research Forum, Northwestern University, Evanston, IL, September 2008.
3. **Anderson, S., Chandrasekaran, B., \*Yi, H.-G., and Kraus, N.** “Cortical evoked auditory processing: Index of neural efficiency in speech-in-noise perception,” CSD Research Forum, Northwestern University, Evanston, IL, September 2009.

4. **Anderson, S.**, Parbery-Clark, A., \*Yi, H.-G., and Kraus, N. “Objective neural indices of speech-in-noise perception in older adults,” CSD Research Forum, Northwestern University, Evanston, IL, September 2010.
5. **Anderson, S.** and Kraus, N. “Infant hearing loss: Effects on neural development,” invited speaker at Institute of Design, Chicago, IL, November 2010.
6. **Anderson, S.** and Erickson, K. “Auditory Neuropathy Spectrum Disorder (ANS): “Biological implications for assessment and management,” Case-based presentation, Northwestern University, Evanston, IL, May 2011.
7. **Anderson, S.** and Kraus, N. “Hearing in noise in older adults: Biological insights and strategies for improvement,” invited speaker at Department of Speech and Hearing Sciences, University of Washington, Seattle, WA, May 2011.
8. **Anderson, S.**, Parbery-Clark., \*Choi, H.J., and Kraus, N. “Training improves neural timing in older adults,” CSD Research Forum, Northwestern University, Evanston, IL, September 2011.
9. **Anderson, S.**, White-Schwoch, T., Choi, H.J., Drehobl, S., and Kraus, N. “Training reverses central processing consequences of hearing loss in older adults,” CSD Research Forum, Northwestern University, Evanston, IL, September 2012.
10. **Anderson, S.** and Kraus, N. “Effects of aging and hearing loss on subcortical representation of speech cues,” invited speaker at University of Manchester, Manchester, UK, October 2012.
11. **Anderson, S.** “Neural mechanisms of hearing loss and training in older adults,” Department of Hearing and Speech Sciences Seminar Series, College Park, MD, April 2013.
12. **Anderson, S.** “Development of subcortical speech representation in infants,” UMD Winter Storm Language Science Workshop, College Park, MD, January 2014.
13. **Anderson, S.** “Neural correlates of auditory processing disorders in children,” Department of Hearing and Speech Sciences Seminar Series, College Park, MD, November 2015.
14. **Anderson, S.** “The effects of aging and hearing loss on the ability to understand speech in complex environments,” Insights into the Dynamics of Aging: Current Research at UMD, College Park, MD, February 2019.
15. **Anderson, S.** “Neuroplasticity and Auditory Aging: Objective evidence,” KU Leuven, Leuven, Belgium,” November 2019.
16. **Anderson, S.** “Neural representation of speech signals: Clinical applications,” Boys Town National Research Hospital, April 2024.

## II.F. Professional and Extension Publications

### II.F.9. Non-Refereed Journal Articles

1. Kraus, N. and **Anderson, S.** (2012). “Hearing with our brains,” *Hear. Jour.* 65(9), 48.
2. Kraus, N. and **Anderson, S.** (2012). “cABR may improve hearing aid outcomes,” *Hear. Jour.* 65(11), 56.
3. Kraus, N. and **Anderson, S.** (2013). “The effects of aging on auditory processing,” *Hear. Jour.* 66(1), 36.
4. Kraus, N. and **Anderson, S.** (2013). “Music training: An antidote for aging,” *Hear. Jour.* 66(3): 52.
5. Kraus, N. and **Anderson, S.** (2013). “In older adults, the brain can still be trained to hear in noise,” *Hear. Jour.* 66(5), 32.
6. Kraus, N. and **Anderson, S.** (2013). “The auditory-cognitive system: To screen or not to screen,” *Hear. Jour.* 66(7), 36.
7. Kraus, N. and **Anderson, S.** (2013). “For reading development, auditory processing is fundamental,” *Hear. Jour.* 66(9), 40.

8. Kraus, N. and **Anderson, S.** (2013). "Treatment for auditory based learning impairments: Evidence supports efficacy," *Hear. Jour.* 66(11), 40.
9. **Anderson, S.** (2014). "A closer look," *Hearing Health*, 30(1), 14-15.
10. Kraus, N. and **Anderson, S.** (2014). "Music benefits across the lifespan: Enhanced processing of speech in noise," *Hear. Rev.* August 18-21.
11. Kraus, N. and **Anderson, S.** (2014). "The ear-brain connection: the role of cognition in neural speech processing," *ENT & Audiology News* 23(3), 98-99.
12. Kraus, N. and **Anderson, S.** (2014). "Bigger is not better: Effects of hearing loss on central processing," *Hear. Jour.* 67(1), 24.
13. Kraus, N. and **Anderson, S.** (2014). "Better speech processing in smaller amplitudes," *Hear. Jour.* 67(3), 48.
14. Kraus, N. and **Anderson, S.** (2014). "Childhood music lessons may offset neural timing delays in older adults," *Hear. Jour.* 67(5), 48.
15. Kraus, N. and **Anderson, S.**, (2014). "Bilingualism enhances neural speech encoding," *Hear. Jour.* 67(7), 40.
16. Kraus, N. and **Anderson, S.** (2014). "Toward a biologic index of APD," *Hear. Jour.* 67(9), 48.
17. Kraus, N. and **Anderson, S.** (2014). "Community-based training shows objective evidence of efficacy," *Hear. Jour.* 67(11), 46-47.
18. Kraus, N. and **Anderson, S.** (2015). "Identifying neural signatures of auditory function," *Hear. Jour.* 68(1), 38-40.
19. Kraus, N. and **Anderson, S.** (2015). "Beat-keeping ability relates to reading readiness," *Hear. Jour.* 68(3), 54-56.
20. Kraus, N. and **Anderson, S.** (2015). "Low socioeconomic status linked to impaired auditory processing," *Hear. Jour.* 68(5), 38-40.
21. **Anderson, S.** (2016). "Is there a role for evoked potentials in the hearing aid fitting?" *Canad. Audiol.* 3(6).
22. **Anderson, S.** (2018). "Introducing mysteries of the hearing brain," *Canad. Audiol.* 5(5).
23. **Anderson, S.** (2019). "Neural and cognitive benefits of hearing aid use," *Hear Jour.* 72(3), 10-12.
24. **Anderson, S.** (2018). "Mysteries of the Hearing Brain – Hearing aid effects on neural processing," *Canad. Audiol.* 5(6).
25. **Anderson, S.** (2019). "Mysteries of the Hearing Brain – Hearing aid use and plasticity," *Canad. Audiol.* 6(1).
26. **Anderson, S.** (2019). "Mysteries of the Hearing Brain – Adjusting to loudness," *Canad. Audiol.* 6(2).
27. **Anderson, S.** (2019). "Mysteries of the Hearing Brain – Decreased temporal processing and Aging," *Canad. Audiol.* 6(3).
28. **Anderson, S.** (2019). "Mysteries of the Hearing Brain – Auditory training and neuroplasticity," *Canad. Audiol.* 6(4).
29. **Anderson, S.**, (2019). "Mysteries of the Hearing Brain – Ingredients for effective auditory learning," *Canad. Audiol.* 6(5).
30. **Anderson, S.**, (2019). "Mysteries of the Hearing Brain – EEG, ERP, ALR, ASSR, cABR – What does it all mean?" *Canad. Audiol.* 6(6).
31. **Anderson, S.**, (2020). "Mysteries of the Hearing Brain -Is it ANSD or cortical deafness?" *Canad. Audiol.* 7(1).
32. **Anderson, S.**, (2020). "Mysteries of the Hearing Brain - Can we incorporate real-world signals in clinical EEG testing?" *Canad. Audiol.* 7(2).
33. **Anderson, S.**, (2020). "Mysteries of the Hearing Brain - What can rate code tell us about cochlear-implant and older listeners?" *Canad. Audiol.* 7(3).

34. **Anderson, S.**, (2020). “Mysteries of the Hearing Brain – Music and the hearing brain,” *Canad. Audiol.* 7(5).
35. **Anderson, S.**, (2020). “Mysteries of the Hearing Brain - Our amazing auditory brains,” *Canad. Audiol.* 7(6).
36. **Anderson, S.**, (2021). “Mysteries of the Hearing Brain - Biological basis of auditory processing deficits in children,” *Canad. Audiol.* 8(1).
37. **Anderson, S.**, (2021). “Mysteries of the Hearing Brain - Identification of auditory processing disorders with the cABR,” *Canad. Audiol.* 8(5).
38. **Anderson, S.**, (2022). “Mysteries of the Hearing Brain – What is normal hearing?” *Canad. Audiol.* 9(1).
39. **Anderson, S.**, (2022). “Mysteries of the Hearing Brain – Hearing aid use improves brain processing over time” *Canad. Audiol.* 9(5).
40. **Anderson, S.**, (2022). “Mysteries of the Hearing Brain – Aging and cochlear implants” *Canad. Audiol.* 9(3).
41. **Anderson, S.**, (2023), “Mysteries of the Hearing Brain – Auditory training may partially restore temporal processing” *Canad. Audiol.* 10 (1).
42. **Anderson, S.**, (2023), “Mysteries of the Hearing Brain – Hearing aid processing delays affect neural fidelity” *Canad. Audiol.* 10 (5).

II.G. Sponsored Research and Programs – Administered by the office of Research Administration (ORA)

II.J.1. Grants

Current External:

P01 AG055365 (renewal pending)

Title: Neuroplasticity in auditory aging and mild cognitive impairment

Source: National Institute on Aging

Dates: 09/1/2022 – 03/31/2027

Total Award: \$19,441,616

Role: MPI

P01 AG055365 (renewal pending)

Title: Administrative Core

Source: National Institute on Aging

Dates: 09/1/2022 – 03/31/2027

Total Award: \$19,441,616 (with previous listing)

Role: Co-Lead

P01 AG055365 (renewal pending)

Title: Human Subjects Research Core

Source: National Institute on Aging

Dates: 09/1/2022 – 03/31/2027

Total Award: \$19,441,616 (with previous listing)

Role: Co-Lead

Lead: Sandra Gordon-Salant

P01 AG055365 (renewal pending)

Title: Auditory temporal processing

Source: National Institute on Aging

Dates: 09/1/2022 – 03/31/2027

Total Award: \$19,441,616 (with previous listing)

Role: PI

P01 AG055365 (renewal pending)  
 Title: Speech perception with high cognitive demand  
 Source: National Institute on Aging  
 Dates: 09/1/2022 – 03/31/2027  
 Total Award: \$19,441,616 (with previous listing)  
 Role: Co-I  
 PI: Jonathan Z. Simon

R01DC020316  
 Source: National Institute on Communication and Other Disorders  
 Title: Peripheral and central contributions to auditory temporal processing deficits and speech understanding in older cochlear implantees  
 Total award: \$2,651,491  
 Dates: 04/01/2022-03/31/2027  
 Role: Co-I  
 PI: Matthew J. Goupell

R01DC019394  
 Source: National Institute on Communication and Other Disorders  
 Title: Multilevel auditory processing of continuous speech, from acoustics to language  
 Total award: \$3,582,457  
 Dates: 09/17/2021 – 08/31/2026  
 Role: Co-I  
 PI: Jonathan Z. Simon

T32 DC000046  
 Title: Center of Comparative Evolutionary Biology of Hearing Training Grant  
 Source: National Institute on Deafness and Other Communication Disorders  
 Total award: \$1,825,485  
 Dates: 07/01/2021-06/30/2026  
 Role: Core Faculty Member  
 PIs: Carr, Gordon-Salant

Title: Optimizing speech recognition and cognitive outcomes for older cochlear implant users via tele-delivery of auditory brain training  
 Source: National Institute on Disability, Independent Living, and Rehabilitation Research  
 Dates: 02/01/2022-01/31/2027  
 Role: Consultant  
 PIs: David Thornton and Claire Bernstein

Title: Identifying the auditory mechanisms supporting speech-in-noise and accented-speech recognition in middle-aged listeners with and without sensorineural hearing loss  
 Source: American Hearing Research Foundation  
 Total award: \$70,000  
 Dates: 01/01/2022-12/31/2023  
 Role: Consultant

PI: Jennifer Krizman

F31DC020120

Title: Determining the mechanisms of spoken language processing delay for children with cochlear implants

Source: National Institute on Deafness and Other Communication Disorders

Total award: \$78,413

Dates: 07/01/2022-06/30/2024

Role: Consultant

PI: Christina Blomquist

R25 DC021130

Title: UMD-REACH (Research Equity and Access in Communication and Hearing)

Source: National Institute on Deafness and Other Communication Disorders

Total Award: \$1,313,722

Dates: 08/15/2023 – 8/14/2028

Faculty member

Current Internal:

Title: Toward a non-linguistic measure of auditory processing deficits in older and younger monolingual and bilingual adults

Source: Brain & Behavior Institute Seed Grant

Total award: \$148,812

Dates: 01/01/2023-12/31/2023

Role: Co-PI

Completed External:

R21 DC015843

Title: Age-related changes in neural encoding and perception of temporal speech cues

Source: National Institute on Deafness and Other Communication Disorders

Total award: \$435,703

Dates: 09/01/2016-08/31/2019

Role: PI

R01 AG051503

Source: National Institute on Aging

Title: Temporal processing and speech understanding in older cochlear implantees

Total award: \$1,533,597

Dates: 09/30/2016 – 04/30/2021

Role: Co-I

PI: Matthew J. Goupell

R01 DC015798

Title: Optimizing bilateral and single-sided deafness cochlear implants for functioning in complex environments

Source: National Institute on Deafness and Other Communication Disorders

Total Award: \$1,971,162

Dates: 12/01/2016 – 11/30/2021

Role: Co-I

PI: Matthew J. Goupell

Title: Effects of aging, hearing loss, and hearing aid compression settings on midbrain processing of temporal speech contrasts

Source: American Hearing Research Foundation

Total award: \$20,000

Dates: 01/01/2016-12/31/2017

Role: PI

Title: Neural adaptation in new hearing aid users

Source: Hearing Health Foundation

Total award: \$29,880

Dates: 07/01/2014-06/30/2016

Role: PI

#### Completed Internal:

Teaching and Learning Grant

Title: Reaching all students: An active-learning approach to infusing diversity, equity, and inclusion in the curriculum

Total award: \$70,000

Dates: 07/28/2022-7/31/2023

Project Role: Co-PI

Title: Machine learning analyses of audiological data to predict age-related declines in hearing and cognition

Source: Brain & Behavior Institute Seed Grant

Total award: \$137,680

Dates: 01/01/2022-12/31/2022

Role: Co-I

PI: Matthew J. Goupell and Michael P. Cummings

Title: Assessment of tinnitus treatment outcomes with behavioral and neural measures

Source: University of Maryland – College Park, College of Behavioral and Social Sciences

Total award: \$10,000

Dates: 06/01/2019-05/31/2020

Role: PI

Title: Effects of aging on speech-in-noise processing in the auditory cortex and midbrain

Source: Advance Interdisciplinary and Engaged Research Seed Grant

Total award: \$19,868

Dates: 04/01/2014-03/31/2015

Role: Co-PI

Title: Effects of familiar risk of autism on neural speech processing (?)

Source: The Brain and Behavioral Research Foundation Young Investigator Grant

Total award: 70,000  
 Dates: 07/15/2021-07/14/2023  
 Role: Consultant  
 PI: Rachel Reetzke

Title: Neurodegenerative effects of aging on auditory temporal processing  
 Source: University of Maryland – College Park, College of Behavioral and Social Sciences  
 Total award: \$12,000  
 Dates: 06/01/2015-05/31/2016  
 Role: PI

Title: Understanding the effect of age and duration of deafness on speech recognition in Cochlear Implant users  
 Source: Brain Behavior Initiative  
 Total award: \$75,000  
 Dates: 04/01/2016-03/31/2017  
 Role: Co-PI

Title: Use of auditory evoked potentials to improve early diagnosis of language impairment  
 Source: University of Maryland – College Park, College of Behavioral and Social Sciences  
 Total award: \$12,000  
 Dates: 06/01/2016-05/31/2017  
 Role: PI

Title: Neuroplasticity in auditory aging  
 Source: University of Maryland Division of Research Tier 2 Seed Grant  
 Total Award: \$75,000  
 Dates: 07/01/2015 – 06/30/2017  
 Role: Co-Investigator  
 PI: Sandra Gordon-Salant

Title: Effects of hearing loss on neural encoding of speech in noise  
 Source: University of Maryland Research and Scholarship Award  
 Total Award: \$9000  
 Dates: Summer 2016  
 Role: PI

#### II.P. Research Fellowships, Prizes and Awards

1. T32 Translational Research Grant (Trainee), National Institutes of Health, 2009-2011
2. John D. and Lucille H. Clark Scholarship Dissertation, Department of Communication Sciences and Disorders, 2011
3. New Century Scholar, American Speech-Language-Hearing Foundation, 2011
4. Loan Repayment Program, National Institutes of Health, 2011-2014
5. Doctoral Scholarship Research award, Illinois Academy of Audiology, 2012
6. New Investigator Travel Award, American Auditory Society Annual Conference, 2016
7. University of Maryland Graduate School Research and Scholarship Award, 2016
8. University of Maryland Research Excellence Award, 2020



## Teaching, Extension, Mentoring, and Advising

### III.A. Courses Taught (last 5 years)

#### 1. Undergraduate

Hearing and Speech Sciences 411: Introduction to Audiology

Spring 2017 40 students

Spring 2018 25 students

Spring 2020 9 students

Fall 2020 46 students

Fall 2021 50 students

Hearing and Speech Sciences 469: Undergraduate research

Fall 2019 1 student

Fall 2023 1 student

Hearing and Speech Sciences 499: Topics in HESP

Spring 2017 5 students

Fall 2017 2 students

Spring 2018 1 student

Fall 2018 3 students

Spring 2019 4 students

Fall 2019 3 students

Spring 2020 1 student

Fall 2020 1 student

Fall 2021 3 students

Spring 2022 2 students

Fall 2022 3 students

Hearing and Speech Sciences 499H: Topics in HESP (Honors)

Spring 2020 1 student

Spring 2023 1 student

#### 2. Graduate

Hearing and Speech Sciences 706: Advanced Clinical Audiology

Spring 2017 6 students

Spring 2018 7 students

Spring 2019 8 students

Spring 2020 10 students

Spring 2021 10 students

Spring 2022 4 students

Spring 2023 7 students

Hearing and Speech Sciences 630: Electrophysiological Measurements

Fall 2017 5 students

Fall 2018 8 students

Fall 2019 9 students

Fall 2020 9 students

Fall 2021 8 students

Fall 2023 9 students

Hearing and Speech Sciences 635: Aural Rehabilitation

Summer 2019 7 students

Hearing and Speech Sciences 704: Audiology Practice Management

Winter 2017 15 students

Winter 2019 12 students

Winter 2021 17 students

Winter 2023 13 students

Hearing and Speech Sciences 710: Industrial and Environmental Noise Problems

Fall 2017 8 students

Fall 2018 5 students

Hearing and Speech Sciences 708: Independent Study

Spring 2018 1 student

Spring 2022 1 student

Neuroscience 379: Independent Study

Fall 2022 1 student

Spring 2023 1 student

Fall 2023 2 students

### III.B. Teaching Innovations

#### III.B.6. Course or Curriculum Development

1. Developed a new course for the Audiology curriculum: Audiology Practice Management
2. Teaching Innovation Grant – UMD  
Proposal to redesign Hearing and Speech Sciences audiology courses  
P.I. Anderson, S., Hoover, E.C., Gordon-Salant, S.  
Role: Principal Investigator  
Total Funding: \$19,320

#### III.B.7. Other

1. Elevate Fellows program (2017 – 2018)
2. Redesigned Introduction to Audiology class to incorporate diversion and inclusion

### Advising: Research or Clinical

#### III.C.1. Undergraduate

- Northwestern University – Evanston, IL:  
Han Gyol-Yi (Fall 2010 – Summer 2011, Summer Scholar)  
Hee Jae Choi (Fall 2011 – Summer 2012, Summer Scholar)
- University of Maryland – College Park:  
Kurt Erhardt (Fall 2013 – Spring 2014)  
Eve Kronzek (Fall 2014 – Spring 2015)  
Alanna Schloss (Fall 2015 – Spring 2016)  
Julie Mehta (Fall 2016 – Spring 2017)  
Logan Fraser (Fall 2017 – May 2018)  
Vera Yevsukov (Fall 2018 – Spring 2020)  
Iona McLean (Summer 2018, Summer 2019)  
Reynier Hernandez (Summer 2018 – Spring 2019)

Nicole Ballasone (Spring 2019 – Spring 2021, HESP Honors)  
 Aakriti Majahan (Fall 2020 – 2023)  
 Parth Agwaral (Summer 2022)  
 Jasmine Wathen (Spring 2023 to present, HESP Honors)  
 Rebecca Farrar (Summer 2023)  
 Marie-Elise Latorre (Summer 2023)

### III.C.2. Master's

#### Master's Thesis Primary Advisor

1. Rachel Stein Rosner, "Auditory brainstem encoding of stop consonants in infants and implications for later language development," May 2016.
2. Kolberg, Elizabeth, Co-Mentor, Fall 2019 – Spring 2021

### III.C.3. Doctoral

#### Doctoral Dissertation (Ph.D.)

1. Alessandro Presacco, Co-Mentor, "Effects of aging on midbrain and cortical speech-in-noise processing,"  
 Start Date: Summer 2013  
 Date of Graduation: 2016
2. Katlyn Bostic, Mentor, September 2016 – December 2016
3. Jason Dunlap, Co-Mentor, Fall 2016 – Fall 2021
4. Bieber, Rebecca, Co-Mentor, "Influence of supportive context and stimulus variability on rapid adaptation to non-native speech,"  
 Start Date: Spring 2018  
 Date of Graduation: Fall 2021

#### Other Doctoral Dissertation Students

1. Maureen Shader, committee member, Spring 2014 – Spring 2019
2. Brittany Jaekel, committee member, Spring 2015 – Summer 2020
3. Julie Cohen, committee member, Fall 2015 – Summer 2020
4. Jaelyn Schurman, committee member, Fall 2015 – Summer 2020
5. Krishna Puvvada, committee member, Fall 2016 – Fall 2017
6. Mary Barrett, committee member, Spring 2019 – present
7. Katherine Palandranti, committee member,
8. Peng Zan, Dean's representative, Fall 2019
9. Lien DeCruy, committee member, Fall 2019, KU Leuven, Belgium
10. Florine Bachmann, committee member, Spring, 2022, Technical University of Denmark

#### Doctoral Capstone Research Project Advisor (Au.D.)

1. Kimberly Jenkins, "Effects of amplification on auditory evoked responses," April 2015.
2. Rachel Lieberman, "Brainstem differentiation of stop consonants during the first year of life," April 2015.
3. Kathryn Miles Jackson, "Effects of amplification and remote microphone technology on the frequency following response," April 2015.
4. Robert Ellis (co-mentor), "Effects of aging and bandwidth on the binaural masking level difference assessed with electrophysiological and psychophysical measures," April 2015.
5. Sarah Shin (co-mentor), "Effects of hearing aid compression on midbrain speech encoding in older adults with hearing loss," April 2017.
6. Amber Frazier (co-mentor), "Effects of hearing aid compression release time on perception of temporal speech contrasts," April 2017.

7. Eve Kronzek (co-mentor), "Training effects on perception and neural representation of temporal speech cues," April 2018.
8. Jennifer Chisholm (co-mentor), "Effects of auditory training on processing of temporal speech cues in older adults," April 2018.
9. Lindsey Roque, "Effects of age, cognition, and neural encoding on the perception of temporal speech cues," May 2019.
10. Schloss, Alanna, "Role of the auditory periphery in self-assessment of hearing ability in younger and older adults," May 2020.
11. Rachel Zimmerman, "The relationship between auditory brainstem response (ABR) parameters, perceptual speech measures, and perceived listening difficulty," May 2020.
12. Jennifer Borja, "Neurophysiological Mechanisms of Tinnitus," May 2021.
13. Thuy-Giang Le, "Temporal Processing Differences between Young and Older Listeners with Normal Hearing," May 2021.
14. Janani Perera, "Central compensation in the brainstem is associated with enhanced cortical responses," May 2021.
15. Mary Schwartz (co-mentor), "Effects of CI Stimulation Rates on Cortical Auditory Evoked Potentials," May 2021.
16. Abigail Poe, "Effects of age on the neural representation of speech cues," May 2022.
17. Logan Fraser, "Effects of time compression on perception and neural encoding of word stimuli," May 2022.
18. Mary Zhou, "Hearing aid delay effects on neural phase locking," May 2023.
19. Sydney Hancock, "Auditory Training Outcomes in Relation to Working Memory and Stream Segregation," May 2023.

#### III.C.4. Post-doctoral

1. Hanin Karawani, mentor, Fall 2016 – Summer 2018
2. Alessandro Presacco, co-mentor, Fall 2018 – present
3. Lindsay DeVries, co-mentor, Fall 2018 – 2020
4. Zilong Xie, co-mentor, Fall 2018 – 2020
5. Julie Cohen, co-mentor, Fall 2020 – 2021
6. Chengjie Huang, co-mentor, Fall 2022 – present

#### III.C.5. Other Directed Research

##### High School Students

1. Nefia Son, Fall 2013 – Spring 2014
2. Elania Tait, Fall 2013 – Spring 2014
3. Chinemeh Ebiya, Fall 2014 – Spring 2015
4. Raquel Rowell, Fall 2018 – Spring 2019
5. Belquis Mbayu, Fall 2019 – Spring 2020
6. Imani Timity, Fall 2023 – present

##### Summer Research Initiative Students

1. Stephanie Turcos (Summer 2019)
2. Alessandra Vidal (Co-mentor, Summer 2020)
3. Andrea Simons (Summer 2022)

#### III.E. Advising: Other than Directed Research

##### III.E.3. Doctoral

Academic Advising for Doctor of Audiology (Au.D.) Students  
 Fall 2017 – Spring 2018 (6)  
 Fall 2018 – Spring 2019 (7)

- Fall 2019 – Spring 2020 (6)
- Fall 2020 – Spring 2021(9)
- Fall 2021 – Spring 2022 (9)
- Fall 2022 – Spring 2023 (3)
- Fall 2023 – Spring 2024 (11)

### III.F. Professional and Extension Education

#### III.F.4. Guest Lectures

- Rush University, Chicago, IL – Spring 2011, 2012
- Gallaudet University, Washington, D.C. – Fall 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023

### III.I. Teaching Awards

1. Excellence in Teaching Award, College of Behavioral and Social Sciences, 2017

## **IV. Service and Outreach**

### IV.A. Editorships, Editorial Boards, and Reviewing Activities

#### IV.A.1. Editor

1. International Journal of Audiology, Associate Editor (2021 – present)
2. Journal of Communication Disorders, Associate Editor (2021 – present)
3. Frontiers in Aging Neuroscience, Topic Editor (2021-2022)

#### IV.A.2. Editorial Boards

1. American Journal of Audiology (2016 – 2020)

#### IV.A.3. Reviewing Activities for Journals and Presses

1. Journal of the Acoustical Society of America
2. International Journal of Otolaryngology
3. Frontiers in Psychology
4. American Journal of Audiology
5. Child Neuropsychology
6. PLOS ONE
7. Perceptual and Motor Skills
8. Journal of Neurophysiology
9. Gerontology and Geriatric Medicine
10. Psychophysiology
11. Neurobiology of Aging
12. Developmental Science
13. Brain and Language
14. Journal of the American Academy of Audiology
15. Journal of the Association for Research in Otolaryngology
16. Hearing Research
17. Journal of Environmental and Public Health
18. Journal of Speech, Language, and Hearing Research
19. Neuron
20. Ear and Hearing
21. Nature Communications
22. Neuroscience Letters
23. Brain and Behavior Research
24. Cerebral Cortex

## 25. Trends in Hearing

## IV.A.4. Reviewing Activities for Agencies and Foundations

1. 2013, Reviewer, Israel Science Foundation
2. 2015, Reviewer, Czech Science Foundation
3. 2015, Reviewer, Fonds de recherche du Québec – Nature et technologies
4. 2017, 2018, Reviewer, ASH Foundation
5. 2018, Reviewer, Research Council KU Leuven, Belgium
6. 2018, Reviewer, Action on Hearing Loss
7. 2018, Reviewer, RR&D SPiRE Review
8. 2019, Reviewer, Research Council KU Leuven, Belgium
9. 2019-2022, Reviewer, RRD3 Scientific Review Meeting
10. 2019, Reviewer, Retirement Research Foundation
11. 2019, Reviewer, Medical Research Council, United Kingdom
12. 2019, Reviewer, Swiss National Science Foundation
13. 2020, Reviewer, Dunhill Medical Trust, United Kingdom
14. 2020, Reviewer, NIH NIDCD Scientific Review Meeting
15. 2023, Reviewer, Canadian Hearing Services
16. 2023, CDMRP, HHRP FR-1 Panel

IV.B. Committees, Professional & Campus Service

## IV.B.1. Campus Service – Department

- HESP CAUD Program Planning Subcommittee (Fall 2013 – present)
- HESP AUD Faculty Search Committee (Fall 2014 – Spring 2015)
- HESP Graduation Committee (Spring 2015)
- HESP AUD Clinical Faculty Search Committee (Spring 2016)
- HESP Merit Committee (Spring 2016, Spring 2022)
- HESP CAUD Comprehensive Examination Coordinator (Fall 2016 – Spring 2021)
- HESP AUD Clinical Faculty Search Committee Chair (Spring 2017 – Summer 2017)
- HESP AUD Faculty Search Committee Chair (Fall 2017 – Spring 2018)
- HESP Teaching and Awards Committee Chair (Fall 2017 – Spring 2021)
- HESP Admissions Committee (Fall 2017 – present)
- HESP Equity and Diversity Committee (Spring 2019 – present)
- HESP Program Planning Committee (Fall 2019 – present)
- Ph.D. Comprehensive Exams Committee (Spring 2018 – present)
- ATP Committee, Jaren Novick (Summer – Fall, 2018)
- ATP Committee, Olga Stakhovskaya (Summer 2018)
- HESP AUD Clinical Faculty Search Committee (Fall 2018)
- HESP AUD Clinical Faculty Search Committee (Spring 2019)
- HESP Director of Graduate Studies (Fall 2021 – present)
- HESP Admissions Chair (Fall 2021 – present)
- HESP Director of Audiology (Fall 2021)
- HESP Space Committee (Spring, 2023)
- HESP Merit Committee (2023 – 2024)
- ATP Committee, Sarah Sohns (Fall, 2023)
- HESP AUD Faculty Search Committee Chair (Fall 2023 – Spring 2024)

## IV.B.2. Campus Service – College

- Maryland Charity Campaign Co-Captain (Fall 2014, 2015, 2018)
- BSOS Faculty & Staff Awards and Nominations Committee (Spring 2018)
- BSOS Dean's Research Initiative Doctoral Dissertation Research Reviewer (Spring 2018)
- BSOS APT Committee (2023-2024)

#### IV.B.3. Campus Service – University

- NACS Membership Committee (Summer 2017 – present)
- Senate Programs, Curricula, and Courses Committee (Fall 2014 – Spring 2018)
- NACS Search Committee (Summer 2018)
- NACS Search Committee Chair (Fall 2018)
- Senate Programs, Equity, Diversion, & Inclusion Committee (Spring 2019)
- Mpower grant reviewer (Spring, 2022)
- Graduate fellowship reviewer (Spring, 2022)

#### IV.B.8. Leadership Roles in Meetings and Conferences

- Maryland Academy of Audiology Annual Conference 2013 Conference Committee Member
- ASHA 2017 Special topics in Hearing and Balance Science Committee member
- Travel awards committee, Association for Research in Otolaryngology (2018 – 2021)

#### IV.C. External Service and Consulting

##### IV.C.1. Community Engagements, Local State, National, International

- Member, Minnesota Council for Hearing Impaired (1989 – 1991)
- Member, South Central Regional Services for Deaf and Hard of Hearing Advisory Council (1988-1992)
- Helped establish local chapter for Hearing Loss Association of America (then Self Help for Hard of Hearing) in Faribault, MN (1994 – 1996)
- Board Member, Minnesota Academy of Audiology (1996-2000, President, 1999)
- Member, Hearing Instrument Dispenser Advisory Council, Minnesota (1996 – 2006)
- American Academy of Otolaryngology - Head and Neck Surgery: Served as reviewer of Clinical Practice Guidelines for Impacted Cerumen (2015)
- Mentor, Association for Research in Otolaryngology (2017 – 2019)
- Mentor, Mentoring and Academic Research Career Program, American Speech-Language-Hearing Association (2018 – present)
- Advisory Board, Pathways Program, American Speech-Language-Hearing Association (ASHA, 2018-2019)
- ASHA Pathways Mentor, 2019 – 2020

#### IV.D. Non-Research Presentations

##### IV.D.1. Outreach Presentations

- **Anderson, S.** “Effects of aging and hearing loss on the ability to understand speech in complex environments,” Insights into the Dynamics of Aging, UMD Emeritus/Emerita Association, February 2019.
- **Anderson, S.** “Age-related hearing loss: Problems and solution,” Hearing Health Foundation Webinar, October 2020.
- **Anderson, S.,** and Rickard, L. “Hearing loss and cognitive decline,” Hearing Loss Association of America, virtual, October 2021.

##### IV.D.2. Other

- Commencement speech, Doctor of Audiology graduation, Northwestern University, June 2014

IV.G.      Service Awards and Honors

- Honors of the Academy, Minnesota Academy of Audiology, 2010