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National Military Audiology and Speech Pathology Center
Walter Reed National Military Medical Center
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CURRENT POSITION

2018-Present Research Investigator, Audiology and Speech Pathology Center, Walter Reed National Military Medical Center

Other Affiliations

2022-Present Research Associate Professor, Department of Surgery, Uniformed Services University

2021-Present Associate Member of the Graduate Faculty, University of Maryland (UMD)

2018-Present Affiliate Scientist, Applied Research Laboratory for Intelligence and Security (formerly Center for Advanced Study of Language), UMD

2018-Present Assistant (2018-2023)/Associate (2023-Present) Research Scientist, Department of Hearing and Speech Sciences (HESP), UMD

EDUCATION

2006-2009 Ph.D. in Psychology (Cognitive Division; Minor: Linguistics/Developmental Psychology)
University of Illinois, Urbana, IL

2003-2006 M.A. in Psychology (Cognitive Division)
University of Illinois, Urbana, IL

1999-2003 B.A. (summa cum laude) in Psychology (highest honors for thesis) and in Linguistics & Cognitive Science
Brandeis University, Waltham, MA

PAST ACADEMIC POSITIONS AND EMPLOYMENT

2016-2018 Affiliate Faculty, Center for Comparative and Evolutionary Biology of Hearing, UMD

2015-2018 Affiliate Faculty, Neuroscience and Cognitive Neuroscience Program, UMD

2015-2018 Affiliate faculty member of the Language Science Center, UMD

2014-2018 Research Assistant Professor, Maryland Neuroimaging Center, UMD

2013-2018 Assistant Research Scientist, Center for Advanced Study of Language, UMD

2009-2013 Postdoctoral Scholar, Hearing Research Program, Medical University of South Carolina

HONORS AND AWARDS

2021 Outstanding Research Accomplishment – Team Award, Military Health System Research Symposium (Team Lead: D.S. Brungart)

2017 Named “Rising Star,” AGS/NIA U13 workshop: *Sensory Impairment & Cognitive Decline*

2017 Named “Research Leader,” UMD Div. of Research, 19th Annual Research Leaders Luncheon

2013-5, 2016-7 NIH Loan Repayment Program Award [NIDCD L30 DC013451]

2011 Student travel scholarship for the Aging and Speech Communication Conference

2006 Named to University of Illinois’ “Incomplete List of Teachers Ranked as Excellent”

2006 Higginson Summer Research Award

2005 National Science Foundation’s Language Training Grant Traineeship

2003-2004 National Science Foundation's Graduate Fellowship Honorable Mention
 2002 National Science Foundation's Integrative Graduate Education and Research Traineeship (IGERT) Summer Fellow in Neuroscience at Brandeis University

RESEARCH INTERESTS

My research investigates the cognitive and neural systems that support speech and language comprehension in challenging conditions. I conduct behavioral, pupillometry, and neuroimaging studies that aim to assess and improve auditory and cognitive function in a variety of listening environments (e.g., background noise) and for a variety of populations (e.g., older adults with hearing loss; service members and veterans with TBI; school-aged children; and adult second-language learners).

CURRENT GRANT SUPPORT

Uniformed Services University of the Health Sciences HU00012420104 09/30/2024-09/29/2027
 Mutli-domain Operations Research Award – Funding Level 2 (MPIs: Oxenham, Brungart)
Mechanisms of acquired hearing deficits in service members secondary to traumatic brain injury and repetitive low-level blast exposure
 Role: co-I

CDMRP W81XWH-22-2-0053 09/30/2022-09/29/2025
 Hearing Restoration Research Program (PI: Brungart)
Enhanced objective measures for evaluating longitudinal changes in within-subject listening difficulty
 Role: co-I

NIH/NIDCD R01 DC019394 (PI: Simon) 09/17/2021-08/31/2026
Multilevel auditory processing of continuous speech, from acoustics to language
 Role: Other Significant Contributor

COMPLETED GRANT SUPPORT

USSOCOM SO190272 (PI: Brungart) 09/30/2022-09/29/2024
Auditory and cognitive impacts of blast exposure in the special operations forces
 Role: co-I

NIH/NIA P01 AG055365 (Prog. Director: Gordon-Salant, Proj. 3 PI: Simon) 09/15/2017-05/31/2024
Neuroplasticity in auditory aging
 Role: co-I (Project 3)

NSF Div. Behavioral and Cognitive Science 2020932 (PI: Novick/Kim/Gilley) 09/01/2020-08/31/2023
Direct impacts of executive functions on language comprehension: Evidence from eye movements and electrophysiology
 Role: Other Significant Contributor

US Army Medical Research & Development Command (PI: Kuchinsky) 10/01/2019-09/30/2022
The impact of blast exposure on functional impairments in hearing and cognition
 Role: PI

DARPA, Targeted Neuroplasticity Training Program (PI: O'Rourke, co-PI: Kuchinsky)
Enhancing auditory and linguistic learning through peripheral nerve stimulation 04/18/2017-08/30/2022
 Role: co-PI

AAMTI Extended Innovation Fund (PI: Brungart) 01/01/2020-12/31/2021
A portable VR-based tool for assessment and rehabilitation of chronic vestibular disorders
 Role: co-I

NIH/NIDCD R03 DC015059 (PI: Kuchinsky) 07/06/2016-12/31/2021
Understanding and indexing the neural bases of listening effort
 Role: PI

Brain and Behavior Initiative, UMD seed grant (PIs: Puett/Kuchinsky) 05/01/2017-12/31/2018
The impact of meditation experience on the brain-body connection: Behavioral, physiological, and neural measures of stress-resilience
 Role: co-PI

PUBLICATIONS

*denotes first author student or postdoc at the time the research was conducted

Peer-Reviewed Journal Articles (38 total)

1. Fisher, C., Johns, M. A., Decruy, L. P., Calloway, R. C., Dunlap, J. L., Simon, J. Z., Anderson, S., & Kuchinsky, S. E. (in press). The Impacts of two adaptive auditory cognitive training paradigms on listening to competing talkers. *Seminars in Hearing*.
2. *DeRoy Milvae, K., Kuchinsky, S. E., Nguyen, N., & Goupell, M. J. (in press). Cochlear implant auditory processing demands are reduced with functional ear asymmetry. *Journal of the Acoustical Society of America*.
3. Zaleski-King, A., Bogle, J., Williams, S., & Kuchinsky, S. E. (in press). Therapeutic use of vagal nerve stimulation for dizziness and related comorbidities. *Perspectives of the ASHA Special Interest Groups*.
4. *Phillips, I., Johns, M. A., Pandža, N. B., Calloway, R. C., Karuzis, V. P., & Kuchinsky, S. E. (in press). 300 Hz transcutaneous auricular vagus nerve stimulation (taVNS) impacts pupil size nonlinearly as a function of intensity. *Psychophysiology*.
5. *Talian, D. S., Eitel, M. M., Zion, D. J., Kuchinsky, S. E., French, L. M., Brickell, T. A., Lippa, S. M., Lange, R. T., & Brungart, D. S. (2024). Normative ranges for oculomotor and reaction time tests in US military service members and veterans. *Journal of the American Academy of Audiology*, 35(5-6), 115-126. doi.org/10.1055/s-0044-1791207
6. Kuchinsky, S. E., Gallun, F. J., & Lee, A. K. C. (2024). Note on the dual-task paradigm and its use to measure listening effort. *Trends in Hearing*, 28, 1-21. doi.org/10.1177/23312165241292215
7. *Johns, M. A., Calloway, R., Karunathilake, I. D., Decruy, L. P., Anderson, S., Simon, J. Z., & Kuchinsky, S. E. (2024). Attention mobilization as a modulator of listening effort: Evidence from pupillometry. *Trends in Hearing*, 28, 23312165241245240. doi.org/10.1177/2331216524124524
8. Kuchinsky, S. E., Razeghi, N., & Pandža, N. B. (2023). Auditory, lexical, and multitasking demands interactively impact listening effort. *Journal of Speech, Language, and Hearing Research*, 66, 4066–4082.
9. *Talian, D. S., Eitel, M. M., Zion, D. J., Kuchinsky, S. E., French, L. M., Brickell, T. A., Lippa, S. M., Lange, R. T., & Brungart, D. S. (2023). Normative ranges for, and interrater reliability of, rotational vestibular and balance tests in U.S. military service members and veterans. *American Journal of Audiology*, 32(3S), 694-705.
10. Quatieri, T. F., Wang, J., Williamson, J. R., DeLaura, R., Talkar, T., Solomon, N. P., Kuchinsky, S. E., Eitel, M., Brickell, T., Lippa, S., Heaton, K. J., Brungart, D. S., French, L., Lange, R., &

- Reynolds, H. (2023). An emotion-driven vocal biomarker-based PTSD screening tool. *IEEE Open Journal of Engineering in Medicine and Biology*, 5, 621-626.
11. *Karunathilake, I. M. D., Dunlap, J. L., Perera J., Presacco A., Decruy L., Anderson S., **Kuchinsky, S.E.**, & Simon, J.Z. (2023). Effects of aging on cortical representations of continuous speech. *Journal of Neurophysiology*, 129(6),1359-1377.
 12. *Johns, M. A., *Calloway, R., Phillips, I., Karuzis, V. P., Dutta, K., Smith, E., Shamma, S. A., Goupell, M. J., & **Kuchinsky, S. E.** (2023). Performance on stochastic figure-ground perception varies with individual differences in speech-in-noise recognition and working memory capacity. *Journal of the Acoustical Society of America*, 153(1), 286-303. [co-first authors]
 13. *Soleimani, B., Das, P., Karunathilake, I. M. D., **Kuchinsky, S. E.**, Simon, J. Z., & Babadi, B. (2022). NLGC: Network Localized Granger Causality with application to MEG directional functional connectivity analysis. *NeuroImage*, 260, 119496.
 14. Brungart, D. S., Sherlock, L., **Kuchinsky, S. E.**, Perry, T. T., Bieber, R. E., Grant, K. W., & Bernstein, J. G. W. (2022). Assessment methods for determining small changes in hearing performance in longitudinal treatment studies. *Journal of the Acoustical Society of America*, 151, 3866-3885.
 15. *Phillips, I., Calloway, R. C., Karuzis, V. P., Pandža, N. B., O'Rourke, P., & **Kuchinsky, S. E.** (2021). Transcutaneous auricular vagus nerve stimulation (taVNS) strengthens semantic representations of foreign language tone words during initial stages of learning. *Journal of Cognitive Neuroscience*, 34(1), 127-152.
 16. *Milvae, K., **Kuchinsky, S. E.**, Stakhovskaya, O., & Goupell, M. (2021). Dichotic listening performance and effort as a function of spectral resolution and interaural symmetry. *Journal of the Acoustical Society of America*, 150(2), 920-935.
 17. *Burg E., Thakkar T., Fields T., Misurelli S., **Kuchinsky S. E.**, Roche J., Lee D. J., & Litovsky R. Y. (2021). Systematic comparison of trial exclusion criteria for pupillometry data analysis in individuals with single-sided deafness and normal hearing. *Trends in Hearing*, 25, 23312165211013256.
 18. *Hsu, N. S., **Kuchinsky, S. E.**, & Novick J. M. (2021). Direct impact of cognitive control on sentence processing and comprehension. *Language, Cognition, and Neuroscience*, 36(2), 211-239.
 19. **Kuchinsky, S. E.**, Eitel, M. M., Lange, R. T., French, L. M., Brickell, T. A., Lippa, S. M., & Brungart, D. S. (2020). Objective and subjective auditory effects of traumatic brain injury and blast exposure in Service Members and Veterans. *Frontiers in Neurology*, 11, 1–9.
 20. *Kulasingham, J. P., Brodbeck, C., Presacco, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2020). High gamma cortical processing of continuous speech in younger and older listeners. *Neuroimage*, 222, 117291.
 21. *Pandža, N. B., Phillips, I., Karuzis, V. P., O'Rourke, P., & **Kuchinsky, S. E.** (2020). Neurostimulation and pupillometry: New directions for learning and research in applied linguistics. *Annual Review of Applied Linguistics*, 40, 56-77. doi.org/10.1017/S0267190520000069
 22. *Ogg, M., Moraczewski, D., **Kuchinsky, S. E.**, & Slevc, L. R. (2019). Separable neural representations of sound sources: Speaker identity and musical timbre. *Neuroimage*, 191, 116-126.
 23. Winn, M. B., Wendt, D., Koelewijn, T., & **Kuchinsky, S. E.** (2018). Best practices and advice for using pupillometry to measure listening effort: An introduction for those who want to get started. *Trends in Hearing*, 22, 233121651880086.
 24. *McGarrigle, R., Dawes, P., Stewart, A. J., **Kuchinsky, S. E.**, & Munro, K. J. (2017). Measuring listening-related effort and fatigue in school-aged children using pupillometry. *Journal of Experimental Child Psychology*, 161, 95-112.

25. *McGarrigle, R., Dawes, P., Stewart, A. J., **Kuchinsky, S. E.**, & Munro, K. J. (2017). Pupillometry reveals changes in physiological arousal during a sustained listening task. *Psychophysiology*, 54, 193-203.
26. Vaden Jr. K. I., **Kuchinsky, S. E.**, Ahlstrom, J. B., Teubner-Rhodes, S. E., Dubno, J. R., & Eckert, M. A. (2016). Cingulo-opercular function during word recognition in noise for older adults with hearing loss. *Experimental Aging Research*, 42(1), 67-82. PMID: 26683042
27. **Kuchinsky, S. E.**, Vaden Jr., K. I., Ahlstrom, J. B., Cute. S. L., Humes, L. E., Dubno, J. R., & Eckert, M. A. (2016). Task-related vigilance during word recognition in noise for older adults with hearing loss. *Experimental Aging Research*, 42(1), 50-66. PMID: 26683041
28. Konopka, A. E. & **Kuchinsky, S. E.** (2015). How message similarity shapes the timecourse of sentence formulation. *Journal of Memory and Language*, 84, 1-23.
29. Vaden Jr., K. I., **Kuchinsky, S. E.**, Ahlstrom, J. B., Dubno, J.R., & Eckert, M. A. (2015). Cortical activity predicts which older adults recognize speech in noise and when. *Journal of Neuroscience*, 35(9), 3929-3937. PMID: 25740521
30. **Kuchinsky, S. E.**, Ahlstrom, J. B., Cute, S. L., Humes, L. E., Dubno, J. R., & Eckert, M. A. (2014). Speech-perception training for older adults with hearing loss impacts word recognition and effort. *Psychophysiology*, 51(10), 1046-1057. PMID: 24909603
31. Vaden Jr., K. I., **Kuchinsky, S. E.**, Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2013). The cingulo-opercular network provides word recognition benefit. *Journal of Neuroscience*, 33(48), 18979-18986. PMID: 24285902
32. Eckert, M. A., **Kuchinsky, S. E.**, Vaden Jr., K. I., Cute, S. L., Spaminato, M. V., & Dubno, J. R. (2013). White matter hyperintensities predict low frequency hearing in older adults. *Journal of the Association for Research in Otolaryngology*, 14(3), 425-433. PMID: 23512682
33. **Kuchinsky, S. E.**, Ahlstrom, J. B., Vaden Jr., K. I., Cute, S. L., Humes, L. E., Dubno, J. R., & Eckert, M.A. (2013). Pupil size varies with word listening and response selection difficulty in older adults with hearing loss. *Psychophysiology*, 50(1), 23-34. PMID: 23157603
34. Eckert, M. A., Cute, S. L., Vaden Jr., K. I., **Kuchinsky, S. E.**, & Dubno, J. R. (2012). Auditory cortex signs of age-related hearing loss. *Journal of the Association for Research in Otolaryngology*, 13(5), 703- 713. PMID: 22618352
35. **Kuchinsky, S. E.**, Vaden Jr., K. I., Keren, N. I., Harris, K. C., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A., (2012). Word intelligibility and age predict visual cortex activity during word listening. *Cerebral Cortex*, 22, 1360-1371. PMID: 21862447
36. Vaden, Jr., K. I., Gebregziabher, M., **Kuchinsky, S. E.**, & Eckert, M.A. (2012). Multiple imputation of missing fMRI data in whole brain analysis. *NeuroImage*, 60, 1843-1855. PMID: 22500925
37. Vaden, Jr., K. I., **Kuchinsky, S. E.**, Keren, N. I., Harris, K. C., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2011). Inferior frontal sensitivity to common speech sounds is amplified by increasing word intelligibility. *Neuropsychologia*, 49, 3563-2572. PMID: 21925521
38. **Kuchinsky, S. E.**, Bock, K., & Irwin, D. E. (2011). Reversing the hands of time: Changing the mapping from seeing to saying. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 37, 748-756. PMID: 21534707
39. Fallon, M., **Kuchinsky, S.**, & Wingfield, A. (2004). The salience of linguistic clauses in young and older adults' running memory for speech. *Experimental Aging Research*, 30, 359-371. PMID: 15371100

Peer-Reviewed Conference Papers and Proceedings

- Fisher, C., Karunathilake, I. M. D., Johns, M. A., Vance, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (in press). Neural and behavioral changes in older adults from auditory-cognitive training. *Proceedings of IEEE EMBC*.
- Talkar, T., Solomon, N., Brungart, D. S., **Kuchinsky, S. E.**, Eitel, M., Lipka, S., Brickell, T., French, L., Lange, R., & Quatieri, T. (2021). Acoustic indicators of speech motor coordination in adults with and without traumatic brain injury. *Proc. Interspeech 2021*, 21-25, doi: 10.21437/Interspeech.2021-1581
- Kuchinsky, S. E.**, Pandža, N. B., & Haarmann, H. J. (2016). Linking indices of tonic alertness: Resting-state pupil dilation and cingulo-opercular neural activity. In D. D. Schmorrow & C. M. Fidopiastis (Eds.), *LNAI: Vol. 9743. Foundations of Augmented Cognition: Neuroergonomics and Operational Neuroscience* (pp. 218-230). Switzerland: Springer. doi: 10.1007/978-3-319-39955-3_21

Book Chapters (5 total)

- Kuchinsky, S. E.**, Phillips, I., & Bieber, R. E. (2024). Listening difficulty: From hearing to language. In K. D. Federmeier (Ed.), *Psychology of Learning and Motivation* (pp. 75-114). Elsevier.
- Kuchinsky, S. E.** & Milvae, K. (2024). Pupillometry in audiology. In M. Papesch & S. Goldinger (Eds.), *Modern Pupillometry: Cognition, Neuroscience, and Practical Applications* (pp. 229-258). Springer.
- Teubner-Rhodes, S., & **Kuchinsky, S. E.** (2020). Physiological approaches to listening. In: D. L. Worthington, & G. D. Bodie (Eds.), *The Handbook of Listening*. Hoboken, NJ: Wiley-Blackwell.
- Kuchinsky, S. E.**, & Vaden Jr., K. I. (2020). Aging, hearing loss, and listening effort: Imaging studies of the aging listener. In: K. Helfer, E. Bartlett, A. N. Popper, & R. R. Fay (Eds.), *The Aging Auditory System*. New York: Springer.
- Kuchinsky, S. E.** & Haarmann, H. J. (2019). Neuroscience perspectives on cognitive training. In: M. Bunting, J. Novick, M. Dougherty, & R. W. Engle (Eds.), *An Integrative Approach to Cognitive and Working Memory Training: Perspectives from Psychology, Neuroscience, and Human Development*. New York: Oxford University Press.

Technical Reports

- O'Rourke, P. & **Kuchinsky, S. E.** (2022). *Enhancing auditory and linguistic learning through peripheral nerve stimulation: Final report* (Technical Report CV 306). College Park, MD: University of Maryland Applied Research Laboratory for Intelligence and Security.
- *Johns, M. A., Karuzis, V. P., Phillips, I., Pandža, N. B., Calloway, R. C., Turner, M. S., Lee, J. G. W., **Kuchinsky, S. E.** (2022). *Investigating three parameterizations of taVNS-potentiated short-term neuroplasticity to facilitate Mandarin lexical tone learning: Final report*. (Technical Report CV 306 Obj. 3.2.2.1.2.2). College Park, MD: University of Maryland Applied Research Laboratory for Intelligence and Security.
- *Phillips, I., Calloway, R. C., Karuzis, V. P., Pandža, N. B., Turner, M. S., Lee, J. G. W., O'Rourke, P., **Kuchinsky, S. E.** (2020). *Investigating three parameterizations of taVNS-potentiated short-term neuroplasticity to facilitate Mandarin lexical tone learning: Interim report*. (Technical Report CV 306 Obj. 3.2.2.1.2.1). College Park, MD: University of Maryland Applied Research Laboratory for Intelligence and Security.
- *Phillips, I., Pandža, N. B., Karuzis, V. P., Turner, M. S., McConnel, S. E., Lee, J. G. W., O'Rourke, P., & **Kuchinsky, S. E.** (2019). *tVNS-potentiated short-term neuroplasticity in Chinese Mandarin lexical tone learning: A final report*. (Technical Report CV 306 Obj. 3.1.2.1.2.2). College Park, MD: University of

Maryland Applied Research Laboratory for Intelligence and Security.

Kuchinsky, S. E., Karuzis, V. P., Pandža, N. B., Lee, J. G. W., O'Rourke, P. (2018). *tVNS-potentiated short-term neuroplasticity in Chinese Mandarin lexical tone learning: An interim report*. (Technical Report CV 306 Obj. 3.1.2.1.2.1). College Park, MD: University of Maryland Center for Advanced Study of Language.

Kuchinsky, S. E., Hsu, N. S., Pandža, N. B., Brown, N. T., Romberg, A. R., Karuzis, V. P., Novick, J. M., & Haarmann, H. J. (2015). *Neuroimaging approaches to cognitive readiness* (Technical Report DO 0054 Obj. 2.7). College Park, MD: University of Maryland Center for Advanced Study of Language.

Romberg, A. R., Haarmann, H. J., **Kuchinsky, S. E.,** Li, L., Testut, A., & Robinson, E. (2015). *The role of mind-wandering in analyst-relevant task performance: Evidence from a dual-blind meditation study* (Technical Report DO 0054 Obj. 2.6). College Park, MD: University of Maryland Center for Advanced Study of Language.

Haarmann, H. J., Romberg, A. R., **Kuchinsky, S. E.,** Karuzis, V. P., Pandža, N. B., Davey, N. S., & Cushen, P. J. (2015). *Using mindfulness training to improve cognition: Increasing time-on-task and improving stress resilience* (Technical Report DO 0054 Obj. 2.2). College Park, MD: University of Maryland Center for Advanced Study of Language.

Professional Magazine

Kuchinsky, S. E., Eckert, M. A., & Dubno, J. R. (2011, Jan/Feb). The eyes are the windows to the ears: Pupil size reflects listening effort. *Audiology Today*, 23, 56-59.

PRESENTATIONS

Invited Colloquia

National and International

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| Jun 2025 | Human Health and Performance Systems Group, Massachusetts Institute of Technology Lincoln Laboratory, MA |
| Aug 2023 | Multisensory Integration Lab Meeting, Vanderbilt University, TN |
| Aug 2022 | Blast Injury Prevention Standards Recommendation (BIPSR) Process: Auditory Blast Injury Type Consensus Building Meeting, McLean, VA |
| Oct 2020 | Department of Communication Sciences and Disorders, University of Wisconsin, Madison |
| Sep 2016 | Department of Communication Sciences and Disorders, University of Wisconsin, Madison |
| Apr 2015 | Audiology and Deafness Oticon Research Seminar, University of Manchester, UK |
| Oct 2014 | Aging & Development Brownbag series, Washington University in St. Louis |
| Jul 2014 | Festschrift for Art Wingfield: Aging, Hearing, & Speech Compr., Brandeis University |
| Nov 2010 | Center for Research on Language, University of California, San Diego |
| Jan 2009 | Science and Engineering Expo, Sandia National Laboratories, Albuquerque |

Local

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| Mar 2022 | Second Language Acquisition Program, UMD |
| Jun 2016 | Audiology and Speech Center, Walter Reed National Military Medical Center |
| Feb 2014 | Department of Hearing and Speech Sciences, UMD |
| Feb 2014 | LingBrains Seminar, UMD |
| Feb 2013 | Center for Cognitive Neuroscience, Medical University of South Carolina |
| Sep 2011 | Hearing Science Interest Group, Medical University of South Carolina |
| Jun 2010 | Hearing Science Interest Group, Medical University of South Carolina |

Apr 2006 Cognitive Division, University of Illinois, Urbana-Champaign

Conference and Workshop Talks

*denotes first author student or postdoc at the time the research was conducted

Kuchinsky, S. E. (2025, November). *Subjective and objective measures of listening effort: With an eye toward clinical tools*. Invited talk to be presented at the ASHA Convention, Washington, DC.

Kuchinsky, S. E. (2025, September). *Objectives measures of listening effort with changes in hearing and cognition*. Invited talk to be presented at the 12th NCRAR Biennial Conference. Virtual.

Johns, M. A., Belcher, M., Fisher, C., Simon, J. Z., Anderson, S. B., **Kuchinsky, S. E.**, & Pandža, N. B. (2025, June). *Bilinguals exert less effort rejecting non-targets compared to monolinguals in a novel auditory stochastic figure-ground task*. Talk presented at the 15th International Symposium on Bilingualism. Donostia-San Sebastián, Spain.

Kuchinsky, S. E. (2025, June). *Keeping an eye on listening effort: Toward enhanced clinical hearing tests*. Invited talk presented at the CogHear Workshop. College Park, MD.

DeRoy Milvae, K., Phillips, I., Thamilmelvam, M., Chambers, S., Sethi, U., Lefler, J., **Kuchinsky, S. E.**, & Brungart, D. S. (2025, May). *Virtual reality potential as a platform to measure listening effort*. Talk presented at the annual meeting of the Acoustical Society of America. New Orleans, LA.

Kuchinsky, S. E. (2025, March). *Interdisciplinary approaches to understanding listening difficulties: Implications for basic research and clinical care*. Invited talk presented at the annual meeting of the Society for Human Sentence Processing. College Park, MD.

*Marshall, K., Coelho, C., **Kuchinsky, S. E.**, Myers, J., Lê, K., Lindsey, A., Eitel, M., Ricciardone, A., Brungart, D., Lange, R. T., French, L. M., Lippa, S. M., Brickell, T. A., & Solomon, N. P. (2024, November) *Differential impacts of traumatic brain injury and post-traumatic stress disorder on discourse production*. One-hour research talk presented at the 2024 ASHA Convention.

Kuchinsky, S. E. (2024, June). *Assessing and altering listening effort with an eye towards clinical tools*. Keynote presentation at the International Conference on Cognitive Hearing Science for Communication (CHSCOM). Linköping, Sweden.

Kuchinsky, S. E., Johns, M. A., Karuzis, V. P., Phillips, I., Pandža N. B., & Calloway, R. (2023, September). *Enhancements in lexical tone learning with transcutaneous vagus nerve stimulation depend on task and stimulation type*. Talk presented at the annual meeting of the Society for Psychophysiological Research. New Orleans, LA.

Kuchinsky, S. E., Perry, T. T., & Brungart, D. S. (2023, August). *Blast-related tinnitus symptoms are associated with changes in sensory, cognitive, and other brain health functions*. Talk presented at the annual Military Health System Research Symposium. Orlando, FL.

Kuchinsky, S. E. (2023, February). *Interactions between pre-stimulus and stimulus-evoked pupil dilation indices of listening engagement*. Talk presented at the MidWinter Meeting of the Association for Research in Otolaryngology, Orlando, FL.

*Soleimani, B., Das, P., Karunathilake, I. M. D., **Kuchinsky, S. E.**, Simon, J. Z., Babadi, B. (2022, August). *Cortical connectivity differences using Network Localized Granger Causality*. Talk presented at the 22nd International Conference on Biomagnetism, Virtual.

Kuchinsky, S. E., (2022, July). *Measuring and modulating the neural mechanisms that underlie listening effort*. Featured invited talk given at the Gordon Research Conference: Auditory Systems, Smithfield, RI.

*DeRoy Milvae, K., Abramowitz, J. C., **Kuchinsky, S. E.**, & Goupell, M. J. (2022, May). *Aging effects on listening effort in cochlear-implant users*. Podium presentation given at the 182nd Meeting of the Acoustical Society of America, Denver, CO.

*Pandža, N. B. & **Kuchinsky, S. E.** (2022, March). *Pupillometry reveals differences in effort for learning*

- specific Mandarin tones that are mitigated by neurostimulation.* Talk presented at the American Association for Applied Linguistics Conference, Pittsburgh, PA.
- *Karunathilake, I. M. D., Anderson, S., **Kuchinsky, S. E.** Simon, J. Z. (2022, February). *Attention modulated neuro-markers extracted from listening to continuous speech.* Talk presented at the Association for Research in Otolaryngology, Virtual conference.
- Anderson, S., Perera, J., **Kuchinsky, S. E.** Simon, J. Z. (2022, February). *Central compensation underlies over-representation of speech signals in the aging auditory cortex.* Talk presented at the Association for Research in Otolaryngology, Virtual conference.
- Kuchinsky, S. E.** (2021, November). *Measuring and modulating effortful listening: Developing interventions to address diverse listening challenges.* Talk presented at the ASHA Convention, Washington, DC.
- *Calloway, R. C., Decruy, L., Karunathilake, I. M. D., Dunlap, J. L., Anderson, S. A., Simon, J. Z., & **Kuchinsky, S. E.** (2021, August). *Pupil diameter indexes time-course shifts in older adults' sustained listening effort.* Talk presented at the International Symposium on Auditory and Audiological Research (ISAAR), Virtual conference.
- *Karunathilake, I. M. D., Dunlap, J. L., Perera, J., Prosecco, A., Decruy, L., Anderson, S. A., **Kuchinsky, S. E.**, & Simon, J. Z. (2021, August). *The effects of aging on the cortical representation of continuous speech.* Talk presented at the International Symposium on Auditory and Audiological Research (ISAAR), Virtual conference.
- Kuchinsky, S. E.**, Razeghi, N., & Pandža, N. B. (2021, June). *Words matter: Analyzing lexical effects on recognition and effort using normed word stimuli.* Talk presented at the Acoustical Society of America, Virtual conference.
- Kuchinsky, S. E.** (2021, June). *Characterizing blast-induced auditory symptoms in U.S. Service Members.* Talk presented at the annual meeting of the Collaborative Auditory & Vestibular Research Network (CAVRN), Virtual conference.
- *Decruy, L., Vanthornhout, J., **Kuchinsky, S. E.**, Anderson, S., Simon, J. Z., & Francart, T. (2021, February). *Neural tracking of continuous speech is exaggerated in healthy aging and hearing-impaired adults.* Talk presented at the midwinter meeting of the Association for Research in Otolaryngology, Virtual conference.
- Kuchinsky, S. E.**, Eitel, M. M., Cohen, J. I., Lange, R. T., French, L. M., Brickell, T. A., Lipka, S. M., & Brungart, D. S. (2020, December). *Listening challenges for Service Members and Veterans with Traumatic Brain Injury: The role of sentence context for speech perception in noise.* Talk presented at the Acoustical Society of America: Acoustics Virtually Everywhere, Virtual conference.
- Kuchinsky, S. E.** (2020, May). *Insights into effort through the eyes, ears, and brain.* Invited talk presented at the Voice Foundation's Virtual Voice Symposium. Virtual conference.
- *Pandža, N. B., Karuzis, V., Phillips, I., O'Rourke, P., & **Kuchinsky, S. E.** (2019, September). *The impact of neurostimulation on cognitive effort in Mandarin lexical tone learning: Pupillometry evidence.* Talk presented at the Second Language Research Forum (SLRF), East Lansing, MI.
- *Kulasingham, J. P., Brodbeck, C., Presacco, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2019, September). *High frequency cortical processing of continuous speech in younger and older listeners.* Talk presented at the Auditory EEG Signal Processing (AESoP) Symposium, Leuven, Belgium.
- Kuchinsky, S. E.** (2019, July). *Acoustic, linguistic, and cognitive factors impact effortful listening: Implications for cochlear implant users.* Invited talk presented at the Conference on Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.
- *Milvae, K. D., **Kuchinsky, S. E.**, & Goupell, M. J. (2019, July). *Dichotic listening performance and effort in bilateral cochlear-implant and normal-hearing listeners.* Talk presented at the Conference on Implantable Auditory Prostheses (CIAP), Tahoe City, CA.

- *Pandža, N. B., Phillips, I., Karuzis, V. P., O'Rourke, P., & **Kuchinsky, S. E.** (2019, June). *Non-invasive neurostimulation differentially affects cognitive effort in the processing of L2 Mandarin tone*. Talk presented at the International Symposium on Bilingualism, Edmonton, Alberta, Canada.
- *Pandža, N. B., Karuzis, V. P., O'Rourke, P., & **Kuchinsky, S. E.** (2019, March). *Simply stimulating: How non-invasive neurostimulation can support learning vocabulary with linguistic tone*. Talk presented at the American Association for Applied Linguistics Conference, Atlanta, GA.
- Kuchinsky, S. E.**, Rose, J. S., Rosenberg, R. N., & Marshall-Cort, A. L. (2019, February). *Examining the relationship between pupillary and neural indices of effortful listening*. Talk presented at the midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- *Brodbeck, C., Presacco, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2019, February). *Increased speech representation in older adults originates from early response in higher order auditory cortex*. Talk presented at the midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- *Milvae, K. D., **Kuchinsky, S. E.**, Stakhovskaya, O. A., & Goupell, M. J. (2019, February). *The effect of spectral resolution on dichotic listening performance and effort*. Talk presented at the midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- *Pandža, N. B., Karuzis, V. P., O'Rourke, P., & **Kuchinsky, S. E.** (2018, September). *Brain stimulation and Mandarin tone learning*. Talk presented at the Languages of Asia LEARN Workshop. Rockville, MD.
- *Milvae, K. D., **Kuchinsky, S. E.**, Stakhovskaya, O. A., & Goupell, M. J. (2018, May). *Dichotic listening performance and listening effort for asymmetrical inputs*. Invited talk presented at the annual meeting of the Acoustical Society of America, Minneapolis, MN.
- Kuchinsky, S. E.** (2018, March). *Effortful listening: The impact of cognitive demands on speech recognition*. Invited keynote talk presented at the Joint Defense Veterans Audiology Conference (JDVAC), Atlanta, GA.
- Kuchinsky, S. E.** (2017, September). *Listening effort as a multidimensional construct: Insights from aligned pupillometry and neuroimaging methods*. Invited keynote talk presented at the Second Summer Workshop on the Application of Pupillometry in Hearing Science to Assess Listening Effort, VU University Medical Center, Amsterdam, The Netherlands.
- Kuchinsky, S. E.** (2017, June). *Neuroscience approaches to understanding cortical changes with hearing loss*. Invited talk presented at the IX International Workshop on Advances in Audiology, University of Salamanca, Spain.
- Kuchinsky, S. E.** (2016, September). *Assessing listening effort: Theoretical and methodological considerations*. Invited panel member and speaker at the World Congress of Audiology, Vancouver, BC.
- Kuchinsky, S. E.**, Pandža, N. B., & Haarmann, H. J. (2016, July). *Linking indices of tonic alertness: Resting-state pupil dilation and cingulo-opercular neural activity*. Invited talk presented at the Human Computer Interaction International Conference, Toronto, ON.
- Kuchinsky, S. E.**, Dubno, J. R., & Eckert, M. A. (2016, May). *Advances in quantifying listening effort: Growth curve analyses of pupillometry data*. Invited talk presented at the spring meeting of the Acoustical Society of America, Salt Lake City, UT.
- Kuchinsky, S. E.**, Ahlstrom, J. B., Cute, S. L., Humes, L. E., Dubno, J. R., & Eckert, M. A. (2015, June). *Pupillometry studies of listening effort: Theoretical and methodological considerations*. Invited talk presented at the Biennial Aging and Speech Communication Conference, Bloomington, IN.
- Kuchinsky, S. E.**, Vaden Jr., K. I., Ahlstrom, J. B., Cute, S. L., Humes, L. E., Dubno, J. R., & Eckert, M. A. (2015, June). *Task-evoked arousal during speech recognition in noise for older adults with hearing loss*. Talk presented at the Third International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden.

- Kuchinsky, S. E.,** Ahlstrom, J. B., Franko-Tobin, E., & Dubno, J. R. (2015, May). *Task demands and cognitive abilities impact listening effort for older adult hearing aid users*. Invited talk presented at the spring meeting of the Acoustical Society of America, Pittsburgh, PA.
- Vaden Jr., K. I., **Kuchinsky, S. E.,** Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2014, November). *The cingulo-opercular networks supports word recognition in noise for older adults*. Nanosymposium talk presented at the Society for Neuroscience Conference, Washington, DC.
- Eckert, M. A., Dubno, J. R., Harris, K. C., **Kuchinsky, S. E.,** Vaden Jr., K. I. (2013, October). *The importance of adaptive control during word recognition*. Talk presented at the Biennial Aging and Speech Communication Conference, Bloomington, IN.
- Konopka, A. E., **Kuchinsky, S. E.,** & Meyer, A. S. (2013, March). *Does message similarity facilitate sentence formulation?* Talk presented at the Annual International Symposium of Psycholinguistics, Canary Islands, Spain.
- Gebregziabher, M., Vaden, K. I., **Kuchinsky, S. E.,** & Eckert, M. A. (2012, August). *Dealing with missing fMRI data in whole-brain analysis*. Talk presented at Annual Joint Statistical Meetings, San Diego, CA.
- Kuchinsky, S. E.** (2012, March). *Neuroimaging studies of hearing loss and hearing-loss intervention*. Invited talk presented at the Annual Meeting of Frontiers in Neuroscience Research Day: Neurodegenerative Disorders, Seabrook, SC.
- Kuchinsky, S. E.** & Bock, K. (2010, March). *From seeing to saying: Perceiving, planning, producing*. Talk presented at the Annual CUNY Conference on Human Sentence Processing, New York, NY.
- Kuchinsky, S. E.** (2009, May). *Instant messaging: A new method for collecting and analyzing errors in language production*. Talk presented at the Annual Meeting of the Illinois Language and Linguistics Society, Urbana-Champaign, IL.
- Kuchinsky, S. E.,** Bock, J. K., & Irwin, D. E. (2005, May). *Priming time: An examination of sentence frame development through structural priming of time expressions*. Talk presented at the meeting of the Midwestern Psychological Association, Chicago, IL.

Conference Posters

- Lu, C., Chun, T., Summers, A., Killy, O., Pollin, K., Reck, L., Allen, N., Samuel, I., Breneman, C., Pietro, K., Forsten, R., Brewster, R. **Kuchinsky, S. E.,** Davidson, A., Brungart, D. S., Ortiz, J., Reinhard, M., & Costanzo, M. *Is hearing aid usage among post-deployed veterans associated with improvements in executive functioning and neurological symptom burden: A cross-sectional study*. Poster to be presented at the Military Health System Research Symposium, Kissimmee, FL.
- Smalt, C. J., Maruta, J., Coulombe, D., Williamson, J. Cowen, E., Fletcher, R., **Kuchinsky, S. E.,** Brungart, D. S., Heaton, K., Ghajar, J., & Quatieri, T. F. (2025, August). *A portable neurophysiological platform for rapid, automated, field-forward cognitive readiness assessment and triage*. Poster to be presented at the Military Health System Research Symposium, Kissimmee, FL.
- *Lerud, K. D., Commuri, V., Fisher, C., Anderson, S., Babadi, B., **Kuchinsky, S. E.,** & Simon, J. Z. (2024, November). *Continuous and concurrent auditory TRFs using both EEG and MEG reveal processing hierarchies during natural speech of competing speakers*. Poster presented the annual midwinter meeting of the Association for Research in Otolaryngology. Orlando, FL.
- *Fisher, C., Karunathilake, I. M. D., Johns, M. A., Vance, A., **Kuchinsky, S. E.,** Anderson, S., & Simon, J. Z. (2025, February). *Neural and behavioral changes from auditory-cognitive speech-in-noise training in older adults*. Poster presented the annual midwinter meeting of the Association for Research in Otolaryngology. Orlando, FL.
- *Commuri, V., Karunathilake, I. M. D., **Kuchinsky, S. E.,** Babadi, B., & Simon, J. Z. (2025, February). *Physiological functional connectivity changes during difficult listening in older and younger adults*.

- Poster presented the annual midwinter meeting of the Association for Research in Otolaryngology. Orlando, FL.
- *Lerud, K. D., Commuri, V., Fisher, C., Anderson, S., Babadi, B., **Kuchinsky, S. E.**, & Simon, J. Z. (2024, November). *Continuous and concurrent auditory TRFs using both EEG and MEG reveal processing hierarchies during natural speech of competing speakers*. Poster presented the Annual Meeting of the Society for Neuroscience (SfN) and the Advances and Perspectives in Auditory Neuroscience (APAN) preconference.
 - *Fisher, C., Karunathilake, I. M. D., Johns, M. A., Vance, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2024, November). *Neuroplasticity changes in older adults following auditory-cognitive training*. Poster presented at the Annual Meeting of the Society for Neuroscience (SfN) and the Advances and Perspectives in Auditory Neuroscience (APAN) preconference.
 - *Commuri, V., Karunathilake, I. M. D., **Kuchinsky, S. E.**, Babadi, B., & Simon, J. Z. (2024, November). *Physiological functional connectivity changes during difficult listening in older and younger adults*. Poster presented the Annual Meeting of the Society for Neuroscience (SfN) and the Advances and Perspectives in Auditory Neuroscience (APAN) preconference.
 - Shub, D. E., Olson, L., **Kuchinsky, S. E.**, & Bernstein, J. G. W. (2024, February). The effects of age and hearing loss on listening effort in a dichotic digit task. Poster presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.
 - *Johns. M. A., Calloway, R. C., Decruy, L., P., Karunathilake, I. M. D., Anderson, S., Simon, J. Z., & **Kuchinsky, S. E.** (2023, Nov). *Listening effort over time depends on attention mobilization in anticipation of difficult listening*. Poster presented at the annual meeting of the Society for Neuroscience and at its associated pre-conference: Advances and Perspectives in Auditory Neuroscience, Washington, D. C.
 - *Soleimani, B., Karunathilake, I. M. D., Das, P., **Kuchinsky, S. E.**, Babadi, B. & Simon, J. Z. (2023, Nov). *Changes in cortical directional connectivity during difficult speech listening in younger and older adults*. Poster presented at the annual meeting of the Society for Neuroscience and at its associated pre-conference: Advances and Perspectives in Auditory Neuroscience, Washington, D. C.
 - Phillips, I., Ellis, G. M., McNamara, B., Lefler, J., DeRoy Milvae, K., Gordon-Salant, S., **Kuchinsky, S. E.**, & Brungart, D. S. (2023, May). *Examining the feasibility of integrating pupillometry measures of listening effort into clinical audiology assessments*. Poster presented at the annual meeting of the Acoustical Society of America. Chicago, IL.
 - Kuchinsky, S. E.**, Perry, T. T., Chmielenski, K., Horvat, L., & Brungart, D. S. (2022, September). *Characterizing the frequency, durations, causes, and long-term implications of blast-induced symptoms in US Service Members*. Poster presented at the Military Health System Research Symposium, Kissimmee, FL.
 - *Calloway, R. C., Johns, M. A., Phillips, I., Karuzis, V. P., Dutta, K. Smith, E., Shamma, S. A., Goupell, M. J., & **Kuchinsky, S. E.** (2022, February). *Discontinuous stochastic figure ground task predicts speech-in-noise recognition*. Poster presented at the Association for Research in Otolaryngology, Virtual conference.
 - *Pandža, N. B. & **Kuchinsky, S. E.** (2021, December). *Comparing two deliveries of non-invasive vagus nerve stimulation to enhance auditory category learning*. Poster presented at the International Brain Stimulation Conference, Charleston, SC.
 - *Karunathilake, I. M. D., Dunlap, J. L., Perera, J., Prosecco, A., Decruy, L., Anderson, S. A., **Kuchinsky, S. E.**, & Simon, J. Z. (2021, November). *The effects of aging on the cortical representation of continuous speech*. Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL.
 - *Soleimani, B., Karunathilake, I. M. D., Das, P., **Kuchinsky, S. E.**, Babadi, B. & Simon, J. Z. (2021, November). *Network localized granger causality reveals cortical network changes under difficult*

- listening conditions*. Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL.
- *Talian, D. S., Eitel, M. M., **Kuchinsky, S. E.**, French, L. M., Bickell, T. A., Lippa, S. M., Lange, R. T., & Brungart, D. S. (2021, September). *Rotational vestibular tests in U.S. Military service members and veterans with and without a history of traumatic brain injury*. Poster presented at the NCRAR Conference on Vestibular Disorders: From Cause to Cure, Portland, OR
- Brungart, D. S., Kokx-Ryan, M., Russell, S., Schurman, J., Perry, T. T., Sheffield, B., Kulinski, D., Holtzman, R., Swann, A., Dirks, C., Grant, K. W., Phatak, S., **Kuchinsky, S. E.**, Chmielenski, K., Horvat, L., Martorana, R. (2021, accepted). *An integrated approach to discovering, diagnosing, and treating auditory injury in the DoD*. Accepted for presentation at the Military Health System Research Symposium, Orlando, FL. [conference cancelled]
- *Soleimani, B., Das, P., Karunathilake, I. M. D., **Kuchinsky, S. E.**, Babadi, B., & Simon, J. Z. (2021, June). *Network localized granger causality inference: Performance evaluation and application to MEG data*. BRAIN Initiative Investigator's Meeting, Virtual conference.
- *Dunlap, J. L., Karunathilake, I. M. D., Perera, J., Simon, J. Z., **Kuchinsky, S. E.**, & Anderson, S. (2020, November). *Relationships between subjective and objective measures of speech understanding reveal age-related deficits*. Association for Research in Otolaryngology. Virtual conference.
- *Karunathilake, I. M. D., Dunlap, J. L., Perera, J., Presacco, A., Decruy, L., Anderson, S., **Kuchinsky, S. E.**, Simon, J. Z. (2021, February). *Effects of aging on the cortical representation of continuous speech*. Association for Research in Otolaryngology. Virtual conference.
- *Decruy, L., Karunathilake, I. M. D., Dunlap, J. L., Perera, J., Anderson, S., Simon, J. Z., & **Kuchinsky, S. E.** (2020, November). *Pupil dilation, as a continuous measure of listening effort, during sustained attention to competing talkers*. Association for Research in Otolaryngology. Virtual conference.
- *Soleimani, B., Das, P., Karunathilake, I. M. D., **Kuchinsky, S. E.**, Babadi, B., & Simon, J. Z. (2020, November). *Cortical connectivity changes under difficult listening conditions revealed by network localized granger causality*. Advances and Perspectives in Auditory Neuroscience (APAN), Virtual conference.
- *Decruy, L., Karunathilake, I. M. D., Dunlap, J. L., Perera, J., Anderson, S., Simon, J. Z., & **Kuchinsky, S. E.** (2020, November). *Pupil dilation, as a continuous measure of listening effort, during sustained attention to competing talkers*. Advances and Perspectives in Auditory Neuroscience (APAN), Virtual conference.
- *Karunathilake, I. M. D., Dunlap, J. L., Perera, J., Presacco, A., Decruy, L., Anderson, S., **Kuchinsky, S. E.**, & Simon, J. Z. (2020, November). *Effects of aging on the cortical representation of continuous speech*. Advances and Perspectives in Auditory Neuroscience (APAN), Virtual conference.
- *Phillips, I., Karuzis, V. P., Pandža, N. B., O'Rourke, P., **Kuchinsky, S. E.** (2019, October). *Transcutaneous vagus nerve stimulation (tVNS) strengthens semantic encoding during novel tone word learning: Evidence from event-related potentials*. Society for Neuroscience, Chicago, IL.
- *Kulasingham, J. P., Brodbeck, C., Presacco, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2019, October). *High frequency time-locking in human auditory cortex to continuous speech*. Society for Neuroscience, Chicago, IL.
- Brungart, D. S., Sheffield, B. M., Sherlock, L., Montagne, C., Eitel, M., & **Kuchinsky, S. E.** (2019, August). *The current and potential future roles of hearing conservation programs in monitoring the effects of repetitive blast exposure in military populations*. Military Health System Research Symposium, Kissimmee, FL.
- *Phillips, I., Karuzis, V. P., Pandža, N. B., O'Rourke, P., & **Kuchinsky, S. E.** (2019, May). *Short-term transcutaneous vagus nerve stimulation (tVNS) reduces cognitive anxiety and negative affect for healthy subjects*. Convention of the Association for Psychological Science, Washington, DC.

- *Kulasingham, J. P., Brodbeck, C., Presacco, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2019, May). *High frequency time locking in auditory cortex to continuous speech*. International Workshop on Statistical Analysis of Neuronal Data (SAND), Pittsburgh, PA.
- *Hsu, N. S., **Kuchinsky, S. E.**, Novick, J. (2019, March). *A causal influence of domain-general cognitive control on sentence comprehension*. CUNY Conference on Human Sentence Processing, Boulder, CO.
- Brungart, D. S., Eitel, M., Cohen, J., Schurman, J., Jenkins, K., Zaleski-King, A., Kokx-Ryan, M., Lange, R. T., French, L. M., Brickell, T. A., Lippa, S. M., & **Kuchinsky, S. E.** (2019, March). *Objective and subjective auditory effects in a longitudinal study of service members with Traumatic Brain Injury and blast exposure*. National Capital Area TBI Research Symposium, Bethesda, MD.
- Misurelli, S., Burg, E., Thakkar, T., Fields, T., **Kuchinsky, S. E.**, & Litovsky, R. (2019, February). *Pupillary studies in individuals with single-sided deafness: Impact of trial inclusion criteria*. Midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- *Brodbeck, C., Presacco, A., **Kuchinsky, S. E.**, Anderson, S., & Simon, J. Z. (2018, September). *Origins of cortical over-representation of speech in older adults*. Auditory SPLASH Conference. Philadelphia, PA.
- *Ogg, M., Moraczewski, D. **Kuchinsky, S. E.**, & Slevc, L. R. (2017, November). *Examining the neural representations of auditory objects: Speaker identify and musical instrument timbre*. Advances and Perspectives in Auditory Neuroscience Annual Symposium, Washington, D.C.
- Kuchinsky, S. E.**, Presacco, A., Anderson, S., Simon, J. Z. (2017, February). *Auditory-cognitive training alters the neural encoding of speech for older adults with normal hearing*. Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- *Hsu N. S., **Kuchinsky S. E.**, Thomas A., Novick J. M. (2016, November). *Cognitive control engagement from a nonlinguistic source can ease processing along the garden path*. Annual Meeting of the Psychonomic Society, Boston, MA.
- Romberg, A. R., Haarmann, H. J., **Kuchinsky, S. E.**, Karuzis, V. P., Pandža, N. B., Davey, N. S., & Cushen, P. J. (2015, November). *Attention monitoring during mindfulness training reduces mind-wandering and increases stress resilience*. Annual Meeting of the Psychonomic Society, Chicago, IL.
- *Pandža, N. B., **Kuchinsky, S. E.**, Karuzis, V. P., Haarmann, H. J. (2015, October). *Mindfulness modulates cognitive control during lexical-semantic categorization: fMRI evidence*. Annual Meeting of the Society for the Neurobiology of Language, Chicago, IL.
- Vaden Jr., K. I., **Kuchinsky, S. E.**, Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2014, June). *Cingulo-opercular network support for word recognition by older adults*. International Society for Magnetic Resonance in Medicine Workshop on Functional MRI: Emerging Techniques & New Interpretations, Charleston, SC.
- Vaden Jr., K. I., **Kuchinsky, S. E.**, Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2013, November). *Engagement of the cingulo-opercular system enhances future word recognition*. Neurobiology of Language Conference, San Diego, CA.
- Vaden Jr., K. I., **Kuchinsky, S. E.**, Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2013, October). *Cingulo-opercular activity predicts subsequent word recognition*. Biennial Aging and Speech Communication Conference, Bloomington, IN.
- Konopka, A. E., **Kuchinsky, S. E.**, & Meyer, A. S. (2013, March). *Does message similarity facilitate sentence formulation?* Annual CUNY Conference on Human Sentence Processing, Columbia, SC.
- Kuchinsky, S. E.**, Vaden, K. I., Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2013, February). *Word recognition benefit from attention systems in older adults with hearing loss*. Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- Vaden, K. I., **Kuchinsky, S. E.**, Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2012, October). *Anterior insula and frontal operculum support word recognition in younger and older adult*. Annual

meeting of the Society for Neuroscience, New Orleans, LA.

Vaden, K.I., Gebregziabher, M., **Kuchinsky, S. E.**, & Eckert, M. A. (2012, March). *Multiple imputation toolkit for group level fMRI statistics*. Annual Frontiers in Neuroscience Research Day: Neurodegenerative Disorders, Seabrook, SC.

Kuchinsky, S. E., Dubno, J. R., Humes, L. E., Ahlstrom, J. B., Cute, S. L., & Eckert, M. A. (2011, October). *Evaluation of pupil size as an indicator of listening effort*. Biennial Aging and Speech Communication Conference, Bloomington, IN.

Vaden, Jr., K. I., **Kuchinsky, S. E.**, Cute, S. L., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2011, October). *An fMRI study of age-related changes in sustained attention and word recognition*. Biennial Aging and Speech Communication Conference, Bloomington, IN.

Ahlstrom, J. B., Eckert, M. A., Humes, L. E., Cute, S. L., **Kuchinsky, S. E.**, & Dubno, J. R. (2011, October). *Benefits of speech-perception training for older adults with hearing loss*. Biennial Aging and Speech Communication Conference, Bloomington, IN.

Kuchinsky, S. E., Vaden, Jr., K. I., Keren, N. I., Harris, K. C., Ahlstrom, J. B., Dubno, J. R., & Eckert, M. A. (2010, November). *Word intelligibility and age predict visual cortex activity during word listening*. Annual Meeting of the Society for Neuroscience, San Diego, CA.

Eckert, M. A., **Kuchinsky, S. E.**, Keren, N. I., Conner, C., Vaden, Jr., K. I., Ahlstrom, J. B. & Dubno, J. R. (2010, June). *Sustained inferior frontal activation predicts age-related changes in word recognition*. Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.

Kuchinsky, S. E., Bock, K., & Irwin, D. E. (2008, November). *Reversing the hands of time: Changing the mapping from visual input to linguistic output*. Annual Meeting of the Psychonomic Society, Chicago, IL.

Kuchinsky, S. E., Bock, K., & Irwin, D. E. (2006, August). *Shaping the link between seeing and saying*. International Workshop on Language Production, Chicago, IL.

TEACHING, MENTORING, AND OUTREACH EXPERIENCE

Teaching

Spring 2010 Certificate of completion of Medical University of South Carolina's Teaching Techniques Course

Instructor

Spring 2017 & 2018 Research Design (HESP 724, Graduate course), UMD
Capstone Research Project II (HESP 859-2501, Graduate course), UMD

Summer 2007 Cognitive Psychology (PSYC 224), University of Illinois

Guest Lectures

Fall 2016, 17, 19 *Psychoacoustics: Listening Effort* (Graduate course)
Department of Hearing and Speech Sciences, UMD

Fall 2016 *Cognitive Neuroscience I: Foundational Readings* (Graduate course)
Neuroscience and Cognitive Science Program, UMD

Spring 2016 *Neural Aptitude for Language: Language Aptitude* (Graduate course)
Second Language Acquisition Program, UMD

Fall 2011, 2012 *fMRI Analysis: Features of Neuroimaging Data; Group-Level Statistics*
Biostatistics: Advanced ANOVA & Regression (Graduate course)

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| | Medical University of South Carolina |
| Spring 2011 | <i>Aging and Plasticity; Language and the Brain</i> : Behavioral Neuroscience College of Charleston |
| Fall 2010 | <i>Cognitive Neuroscience</i> : Behavioral Neuroscience College of Charleston |
| Spring 2010 | <i>Language</i> : Cognitive Psychology College of Charleston |

Teaching Assistant

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|-------------|--|
| Fall 2006 | Cognitive Psychology Laboratory (Lab Instructor) Department of Psychology, University of Illinois |
| Spring 2006 | Cognitive Psychology Lab: Neural Network Modeling (Lab Instructor) Department of Psychology, University of Illinois |
| Fall 2005 | Learning and Memory Department of Psychology, University of Illinois |

Mentoring

At University of Maryland (UMD), unless otherwise specified.

Postdoctoral Fellow Mentor (@NIH/NIDCD K01 recipient)

| | |
|-----------|--|
| 2020-2024 | Michael A. Johns (w/ O'Rourke to 2022, w/ Simon to 2024) |
| 2019-2022 | @Kristina DeRoy Milvae (w/ Goupell) |
| 2019-2022 | Regina Calloway (w/ Simon) |
| 2018-2020 | Ian Phillips |

Dissertation Committee Member (#NIH/NIDCD F31 recipient)

| | |
|-----------|---|
| est. 2026 | #Sophie Domanski, Dept. of Hearing and Speech Sciences, UMD |
| est. 2026 | Kelly Marshall, Neuroscience and Cognitive Science Program, UMD |
| 2024 | Anna Tinnemore, Neuroscience and Cognitive Science Program, UMD |
| 2024 | Jonathan Malone, Program in Second Language Acquisition, UMD |
| 2024 | Arynn Byrd, Dept. of Hearing and Speech Sciences, UMD |
| 2023 | Christina Blomquist, Dept. of Hearing and Speech Sciences, UMD |
| 2023 | I. M. Dushyanthi Karunathilake, Dept. of Electrical & Computer Engineering, UMD |
| 2021 | Allison Johnson, Dept. of Hearing and Speech Sciences, UMD |
| 2021 | Nick Pandža, Program in Second Language Acquisition, UMD |
| 2021 | Rebecca Bieber, Dept. of Hearing and Speech Sciences, UMD |
| 2020 | #Brittany Jaekel, Dept. of Hearing and Speech Sciences, UMD |
| 2019 | Mattson Ogg, Neuroscience and Cognitive Science Program, UMD |

Ad Hoc/Outside Dissertation Examiner

| | |
|------|--|
| 2020 | Gal Nitsan, Dept. of Communication Sciences and Disorders, University of Haifa, IL |
| 2017 | Kelly Miles, Audiology Section, Dept. of Linguistics, Macquarie University, AUS |

Qualifying Exam Committee Member

| | |
|------|---|
| 2021 | Madison Buntrock, Dept. of Hearing and Speech Sciences, UMD |
| 2021 | Jason Dunlap, Dept. of Hearing and Speech Sciences, UMD |
| 2021 | Nick Pandža, Program in Second Language Acquisition, UMD |

Graduate First-Year Project Committee Member

| | |
|------|---|
| 2019 | Anna Tinnemore, Neuroscience and Cognitive Science Program, UMD |
|------|---|

AuD Capstone or Thesis Mentor or Committee Member

| | |
|-----------|--|
| est. 2026 | Sarah Fern, Dept. of Audiology, Towson University (Mentor: Zaleski-King) |
|-----------|--|

2024 Leah Gabay, Dept. of Audiology, Towson University (Mentor: Zaleski-King)
 2024 Sheniqua Williams, Dept. of Audiology, Towson University (Mentor: Zaleski-King)
 2017 Niki Razeghi, Dept. of Hearing and Speech Sciences, UMD (Mentor: **Kuchinsky**)

Undergraduate Honors/Scholars Project Mentor or Committee Member

2021 Kuhoo Bhal, College Park Scholars, Life Sciences, UMD, Research Practicum
 (Mentor: **Kuchinsky**)
 2018 Julie Knorr, Dept. of Hearing and Speech Sciences, UMD, Honors Project
 Committee (Mentor: Novick)

Former UMD Lab Research Assistants

Graduate: Alyssa Frenette, Emily Joseph, Jane Rose, Ronella Rosenberg

Undergraduate: Elizabeth Agboola, Kuhoo Bhal, Aidan Marshall-Cort, Erin Murphy, Kim Pham, Geetika Reichmann, Lori Stanton

Outreach

2025 Invited panelist for the SRI/REACH Program Doctoral Careers Panel
 College of Behavioral and Social Sciences (BSOS) Summer Research Initiative (SRI) and
 Department of Hearing and Speech Science (HESP) Research Equity and Access in
 Communication and Hearing (REACH). Programs to encourage and enhance the diversity of
 scholars working in social and behavioral science, practice, teaching, and policy fields.
 University of Maryland, College Park
 2024 Invited panelist for the Community-Engaged Outreach Session at Language Science Day
 University of Maryland, College Park
 2011 & 2012 Lecture and MRI demo: *An Introduction to Magnetic Resonance Imaging*
 Ashley Hall High School Summer Neuroscience Institute. Opportunity for exceptional female
 high school juniors and seniors to learn about clinical and research neuroscience.
 2012 Lecture and MRI demo: *An Introduction to Magnetic Resonance Imaging*
 Ashley Hall High School, AP Biology
 2011 Kuchinsky et al. *Evaluation of pupil size as an indicator of listening effort*.
 Neuropalooza: MUSC/College of Charleston Student-Postdoc Neuroscience Research Day

SERVICE

Faculty Committees

2015-2018 Member of the committee on Faculty Affairs on the University Senate
 2015-2018 Member of the Neuroscience and Cognitive Science Program Colloquium Committee

Editorial Service

| | | |
|----------------|--------------------------|----------------------|
| 2025 – Present | <i>Trends in Hearing</i> | Associate Editor |
| 2019 | <i>SAGE Open</i> | Guest Article Editor |

Reviewing

Journals

Am J Audiol
Atten Percept Psycho

Front Sys Neurosci
Front Psych

Med Sci Monitor
Nat Commun

*Behav Res Methods**BMJ Open**Cereb Cortex**Cognition**Cogn Affect Behav Neuro**Ear Hearing**eNeuro**Exp Aging Res**Front Hum Neurosci**Front Neurosci**Hearing Res**Heliyon**Int J Audiol**J Alzheimer's Disease**J Am Acad Audiol**J Acoust Soc Am**J Exp Psychol Learn**J Mem Lang**J Speech Lang Hear R**Lang Cognitive Proc**Neuroimage**Neuromodulation**Neuropsychologia**PLoS ONE**Psychon B Rev**Psychophysiology**Trends Hear***Conferences**

Cognitive Science Society; Society of the Neurobiology of Language

Book Publishers

Plural Publishing

Funding Agencies

Action on Hearing Loss

Agence Nationale de la Recherche (ANR) Research and Innovation Component

Creative Forces®: National Endowment for the Arts (NEA) Military Healing Arts Network

Music Therapy or Art Therapy Research Subaward

Defense Health Agency (DHA) Small Business Innovation Research (SBIR) Program

German Research Foundation (Deutsche Forschungsgemeinschaft), Social and Behavioral Sciences

Medical Research Council (MRC) Neurosciences & Mental Health Board

National Institutes of Health (NIH) Early Career Reviewer (ECR) Program

Study Sections: NIDCD AUD; NIDCD Fellowship (speech/language)

National Science Foundation (NSF) Linguistics Program

National Sciences and Engineering Research Council of Canada

Royal National Institute for Deaf People (RNID), UK