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 1/23/2025

I. Personal Information

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

UID: 116369442
Hoover, Eric Christopher
LeFrak Hall 0119E
(301) 405-4196
ehoover@umd.edu
https://hesp.umd.edu/facultyprofile/hoover/eric

I.B. Academic Appointments at UMD

Neuroscience and Cognitive Science (NACS) Program
Faculty Member (2023 – present)

Department of Hearing and Speech Sciences
Assistant Professor (2018 – present)

Comparative and Evolutionary Biology of Hearing (CEBH) Training Program
Member (2018 – present)

I.C. Other Employment

2019 – 2022, Research Consultant, University of South Florida
2015 – 2018, Postdoctoral Fellow, University of South Florida
2009 – 2014, Graduate Research Assistant, Northwestern University
2008, Research Trainee, Portland VA Medical Center
2006 – 2009, Graduate Research Assistant, University of Washington
2005 – 2006, Undergraduate Research Assistant, Arizona State University

I.D. Educational Background

2015 Ph.D. Communication Sciences and Disorders, Northwestern University, Evanston, IL
2002 B.A. Interdisciplinary Computing and the Arts, Music, University of California, San Diego, San Diego, CA

I.E. Professional Certifications, Licenses, and Memberships

2022 – present, Member, National Hearing Conservation Association
2019 – present, Member, Association for Research in Otolaryngology
2016 – 2017, Audio Engineering Society
2014 – 2015, Member, American Academy of Audiology
2013 – present, Member, American Speech, Language, and Hearing Association
2009 – present, Member, Acoustical Society of America

2008 – present, Member, American Auditory Society

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

Note: underlined names denote mentored doctoral students and asterisks before names denote mentored undergraduate students.

II.A. Refereed Journals

II.A.1. Refereed Journal Articles

1. **Hoover, E. C.** (*in press*). Mathematical tools for the design and accurate reporting of transformed up-and-down staircases. *Journal of the Acoustical Society of America*.
2. **Hoover, E. C.** (2025). Target an arbitrary probability of response using weighted staircase procedures. *Journal of the Acoustical Society of America, 157,* 191-202. https://doi.org/10.1121/10.0034861
3. Menon, K. N. & **Hoover, E. C.** (2024). Alignment of audiologists' values with best-practice standards: insights from a national survey. *American Journal of Audiology,* 33(4), 1291-1305. https://doi.org/10.1044/2024_AJA-24-00102. *PsyArXiv,* https://doi.org/10.31234/osf.io/kv69c
4. Menon, K. N., Hoon-Starr, M., Shilton, K., & **Hoover, E. C.** (2024). Over-the-counter hearing aids challenge the core values of traditional audiology. *Journal of Speech, Language, and Hearing Research, 67(2)*, 657-667. https://doi.org/10.1044/2023_JSLHR-23-00306. *PsyArXiv*, doi:10.31234/osf.io/46gcn
5. Lelo de Larrea-Mancera, E. S., Stavropoulos, T., Carillo, A. A., Menon, K. N., **Hoover, E. C.**, Eddins, D. A., Gallun, F. J., & Seitz, A. R. (2023). Validation of the Adaptive Scan method in the quest for time-efficient methods of testing auditory processes. *Attention, Perception, and Psychophysics, 85,* 2797–2810. https://doi.org/10.3758%2Fs13414-023-02743-z. *PsyArXiv* doi:10.3758/s13414-023-02743-z
6. Menon, K. N., Hoon-Starr, M., Shilton, K., & **Hoover, E. C.** (2023). Core values in the traditional provision of hearing healthcare. *Journal of Speech, Language, and Hearing Research*, 66(2) 750-764. https://doi.org/10.1044/2022_JSLHR-22-00540. *PsyArXiv.* doi:10.31234/osf.io/2gybt
7. Mansour, D., Rickey, J., Kim, C., Trupp, J., Thomas, O. N., **Hoover, E. C.**, Hertzano, R., & Brandt, N. J. (2022). Senior care pharmacists, audiologists, and otologists: Maximizing patient benefit through interprofessional collaboration. *The Senior Care Pharmacist*, 37, 260-265. https://doi.org/10.4140/TCP.n.2022.260
8. Peng, Z. E., et al. [23 other authors]. (2022). Remote testing for psychological and physiological acoustics: Initial report of the P&P Task Force on Remote Testing. *The Journal of the Acoustical Society of America,* 151(5), 3116-3128. https://doi.org/10.1121/10.0010422
9. Palandrani, K. N., **Hoover, E. C.**, Stavropoulos, T., Seitz, A., Isarangura, S., Gallun, F.J., & Eddins, D.A. (2021). Temporal integration of monaural and dichotic frequency modulation. *The Journal of the Acoustical Society of America*, 150(2), 745-758. https://doi.org/10.1121/10.0005729. *PsyArXiv* doi:10.31234/osf.io/269gp
10. **Hoover, E. C.** (2021). A three-step pattern in audiometric thresholds. *JASA Express Letters*, 1(3), 034402. https://doi.org/10.1121/10.0003781. *PsyArXiv* doi:10.31219/osf.io/w762q

11. Stavropoulos, T., Isarangura, S., **Hoover, E. C.**, Eddins, D. E., Seitz, A., & Gallun, F. J. (2021). Exponential spectro-temporal modulation generation. *The Journal of the Acoustical Society of America*, 149(3), 1434-1443. https://doi.org/10.1121/10.0003604
12. Lelo de Larrea-Mancera, E. S., Stavropoulos, T., **Hoover, E. C.**, Eddins, D. E., Gallun, F. J., & Seitz, A. (2020). Portable Automated Rapid Testing (PART) for auditory assessment: Validation in a young adult normal-hearing population. The Journal of the Acoustical Society of America, 148(4), 1831-1851. https://doi.org/10.1121/10.0002108. *bioRxiv* doi:10.1101/2020.01.08.899088
13. Ozmeral, E. J., **Hoover, E. C.**, Wasserman, L., Gabbidon, P., & Eddins, D. A. (2020). Development of the Continuous Number Identification Test (CNIT): Feasibility of dynamic assessment of speech intelligibility. *International Journal of Audiology*, 59(6):434-442. doi:10.1080/14992027.2020.1718782
14. **Hoover, E. C.**, Kinney, B., Bell, K., Gallun, F. J., & Eddins, D. A. (2019). A comparison of behavioral methods for indexing the auditory processing of temporal fine structure cues. *Journal of Speech, Language, and Hearing Research*, 62(6), 2018-2034. https://dx.doi.org/10.1044/2019_JSLHR-H-18-0217
15. Souza, P. E. & **Hoover, E. C.** (2018). The physiologic and psychophysical consequences of severe to profound hearing loss. *Seminars in Hearing*, 39 (4), 349-363. https://dx.doi.org/10.1055/s-0038-1670698
16. **Hoover, E. C.**, Eddins, A. C., Eddins, D. A. (2018). Distribution of spectral modulation transfer functions in a young, normal-hearing population. *The Journal of the Acoustical Society of America*. 143(1), 306-309. https://dx.doi.org/10.1121/1.5020787
17. Souza, P. E., **Hoover, E. C.**, Blackburn, M., & Gallun, F. J. (2017). The characteristics of adults with severe hearing loss. *Journal of the American Academy of Audiology*, 29(8), 764-779. doi:10.3766/jaaa.17050
18. **Hoover, E. C.**, Souza, P. E., & Gallun, F. J. (2017). Auditory and cognitive factors associated with speech-in-noise complaints following mild traumatic brain injury. *Journal of the American Academy of Audiology*, 28 (4), 325-339. doi:10.3766/jaaa.16051
19. **Hoover, E. C.**, Pasquesi, L. A., & Souza, P. E. (2015). Comparison of clinical and traditional gap detection tests. *Journal of the American Academy of Audiology*, 26, 540-546. https://doi.org/10.3766/jaaa.14088
20. **Hoover, E. C.**, Souza, P. E., & Gallun, F. J. (2012). The consonant-weighted Envelope Difference Index (cEDI): a proposed technique for quantifying envelope distortion. *Journal of Speech, Language, and Hearing Research*, 55 (6), 1802-1806. https://doi.org/10.1044/1092-4388(2012/11-0255)
21. Souza, P. E., **Hoover, E. C.**, & Gallun, F. J. (2012). Application of the Envelope Difference Index to spectrally-sparse speech. *Journal of Speech, Language, and Hearing Research*, 55 (3), 824-837. https://doi.org/10.1044/1092-4388(2011/10-0301)

II.A.2. Perspectives, Opinions, and Letters

1. **Hoover, E. C.**, Souza, P. E., & Gallun, F. J. (2015). Competing views on abnormal auditory results after mild traumatic brain injury. *SIG 6 Perspectives on Hearing and Hearing Disorders: Research and Diagnostics*, 19 (1), 12-21. https://doi.org/10.1044/hhd19.1.12

II.A.3. Other

1. Mansour, D., **Hoover, E. C.**, Hertzano, R., & Brandt, N. (2022, August 17). Hearing loss: An under-addressed problem in underserved West Baltimore. The Elm.

https://elm.umaryland.edu/elm-stories/2022/Hearing-Loss-An-Under-addressed-Hearing-Loss-Problem-in-Underserved-West-Baltimore.php

II.B. Published Conference Proceedings

II.B.1. Refereed Conference Proceedings

1. Lelo de Larrea-Mancera, E. S., Koerner, T. K., **Hoover, E. C.,** Stecker, G. C., Gallun, F. J., & Seitz, A. (2024). Estimating sensory thresholds with the adaptive scan method of psychophysical testing. *Proceedings of Meetings in Acoustics, 54,* 050002. https://doi.org/10.1121/2.0001939
2. **Hoover, E. C.** (2023). Accurately target an arbitrary probability of response using weighted staircase procedures. *Proceedings of Meetings in Acoustics, 46*, 050005. https://doi.org/10.1121/2.0001726
3. Peng, Z. E., et al. [23 other authors]. (2021). Remote testing for psychological and physiological acoustics: Initial report of the P&P Task Force on Remote Testing. *Proceedings of Meetings in Acoustics*, 42, 050009. https://doi.org/10.1121/2.0001409
4. Isarangura, S., Palandrani, K. N., Stavropoulos, T., Seitz, A., **Hoover, E. C.**, Gallun, F. J., & Eddins, D. A. (2019). Methods for expressing spectral modulation depth and the effects of modulator shape on spectral modulation detection thresholds. *Proceedings of Meetings in Acoustics 177ASA*, 36, 050003. https://doi.org/10.1121/2.0001032
5. Gallun, F. J., et al. [17 other authors] (2018). Development and validation of Portable Automated Rapid Testing (PART) measures for auditory research. *Proceedings of Meetings in Acoustics 175ASA*, 33, 050002. https://dx.doi.org/10.1121/2.0000878
6. **Hoover, E. C.**, Souza, P. E., & Gallun, F. J. (2014). Relationship between amplitude modulation in psychophysical tasks and speech in listeners with normal and impaired hearing. *Proceedings of Meetings in Acoustics 161ASA*, 12, 050009. https://doi.org/10.1121/1.4863159

II.C. Conferences, Workshops, and Talks

II.C.1. Invited Talks

1. **Hoover, E. C.** (2024). Overcoming barriers to hearing healthcare. San Diego State University, San Diego, CA. November 21, 2024.
2. **Hoover, E. C.** (2019). Translating laboratory psychoacoustics tasks into efficient clinical tools. James Madison University Ruth Symposium in Audiology and Hearing Science, Harrisonburg, VA. October 5, 2019.
3. **Hoover, E. C.** (2016). Suprathreshold Auditory Deficits Associated with Traumatic Brain Injury and Concussion. Annual Convention of the New Jersey Speech-Language and Hearing Association, Long Branch, NJ. April 15, 2016.
4. Souza, P. E., **Hoover, E. C.**, & Gallun, F. J. (2015). Hearing assessment and management in adults with history of mild traumatic brain injury. Testing, tools and treatment: Innovations in science and practice. Evanston, IL.

II.C.2. Refereed Presentations

1. **Hoover, E. C.** & Palandrani, K. N. (2021). A combinatorial solution to the probability of stopping in threshold audiometry. 8th International Symposium on Auditory and Audiological Research (ISAAR), August.
2. **Hoover, E. C.** (2021). A framework for the analysis and optimization of adaptive psychophysical procedures. The Journal of the Acoustical Society of America, 149, A104. https://doi.org/10.1121/10.0004653

3. Gallun, F. J., Diedesch, A. C., Srinivasan, N., Lelo de Larrea-Mancera, E. S., Koerner, T. K., Molis, M. R., **Hoover, E. C.**, Eddins, D. A., & Seitz, A. (2021). Auditory processing abilities across the adult lifespan tested with a Portable Automated Rapid Testing (PART) battery. Association for Research in Otolaryngology 43rd MidWinter Meeting. Virtual, February.
4. Stecker, G.C., … [24 other authors]. (2020). Remote testing for psychological and physiological acoustics: initial report of the ASA P&P Task Force of Remote Testing. The Journal of the Acoustical Society of America, 148, 2713. https://doi.org/10.1121/1.5147519
5. **Hoover, E. C.**, Gallun, F. J., & Eddins, D. A. (2019). Challenging standard practices in adaptive psychophysics. The Journal of the Acoustical Society of America, 145(3), 1758-1758.
6. Gallun, F. J., Seitz, A., Eddins, D. A., Molis, M. R., Stavropoulos, T., Jakien, K., Kampel, S., Diedesch, A. C., **Hoover, E. C.**, Bell, K., Souza, P., Sherman, M., Calandruccio, L., Xue, G., Sebena, R., & Srinivasan, N. K. (2018). Portable Automated Rapid Testing (PART) measures for auditory research. The Journal of the Acoustical Society of America, 143(3), 1814-1815. https://doi.org/10.1121/1.5035951
7. **Hoover, E. C.**, Diedesch, A. C., Gallun, F. J., Eddins, D. A. (2017). Comparison of scoring methods for spatial release from masking for speech based on analysis of psychometric function slope. J. Acoust. Soc. Am. 142(4) 2676-2677.
8. Gallun, F. J., Seitz, A., Stavropoulos, T., Eddins, D. A., **Hoover, E. C.**, Gordon, S. (2017). Development and validation of a portable platform for auditory testing. J. Acoust. Soc. Am. 142(4), 2610-2611.
9. Gallun, F. J., Gordon, S., Stavropoulos, T., Seitz, A., **Hoover, E. C.**, Eddins, D. A. (2017). Evaluation of the Apple iPad as a platform for psychoacoustic research. Games for Change. New York, NY, July.
10. **Hoover, E. C.**, Ozmeral, E. J., Gabbidon, P. E., & Eddins, D. A. (2016). A novel approach to behavioral assessment in dynamic acoustic environments. International Hearing Aid Research Conference (IHCON). Lake Tahoe, CA, August.
11. **Hoover, E. C.,** Souza, P. E., & Gallun, F. J. (2011). Relationship between amplitude modulation in psychophysical tasks and speech in listeners with normal and impaired hearing. J. Acoust. Soc. Am. 129, 2655.

II.C.3. Refereed Abstracts

1. Souza, P. E., Arehart, K. H., Kates, J. M., Kumar, R. M., Croghan, N., & **Hoover, E. C.** (2011). Effects of frequency compression on the intelligibility and quality of speech in noise. J. Acoust. Soc. Am. 129, 2655.

II.C.4. Refereed Posters

1. Lelo de Larrea-Mancera, E. S., Carrillo, A., Koerner, T., Bologna, W. J., **Hoover, E. C.**, Menon, K. N., Stecker, G. C. Gallun, F. J., Seitz, A. (2024). *The Journal of the Acoustical Society of America.*
2. Lelo de Larrea-Mancera, E. S., Koerner, T., **Hoover, E. C.**, Stecker, G. C. Gallun, F. J., Seitz, A. (2024). Estimating thresholds with the adaptive scan method of psychophysical testing. *The Journal of the Acoustical Society of America*, 155(3_Supplement), A41-A41. https://doi.org/10.1121/10.0026733
3. **Hoover, E. C.** (2024). Are we there yet? Omitting data from the beginning of a staircase. American Auditory Society. Scottsdale, AZ, February.
4. Menon, K. N., **Hoover, E. C.** (2024). Audiologists' Values in Hearing Healthcare. Scottsdale, AZ, February.

5. **Hoover, E. C.,** Menon, K. N. (2023). Upward bias in audiometric thresholds is caused by stopping at the first opportunity. *The Journal of the Acoustical Society of America,* 153, A50. https://doi.org/10.1121/10.0018125
6. Menon, K. N., Hoon-Starr, M., Shilton, K., **Hoover, E. C.** (2022) Over-The-Counter Hearing Aids Challenge the Core Values of Hearing Healthcare. International Hearing Aid Research Conference. Lake Tahoe, CA, August.
7. **Hoover, E. C.** (2022). Accurately targeting an arbitrary probability of response in staircase procedures. *The Journal of the Acoustical Society of America*, 151(4), A223-A223. https://doi.org/10.1121/10.0011127
8. Srinivasan, N. K., Kim, J., Coleman, K., Brown, K., Ananthakrishnan, S., **Hoover, E. C.,** & Gallun, F. J. (2022). Psychoacoustic thresholds measured using the Portable Automated Rapid Testing (PART) iPad application in a large cohort of older listeners. *The Journal of the Acoustical Society of America*, 151(4), A223-A223. https://doi.org/10.1121/10.0011128
9. Palandrani, K. N., Hoon-Starr, M., Shilton, K., & **Hoover, E. C.** (2022). Values in hearing healthcare service delivery. American Auditory Society. Scottsdale, AZ, February.
10. Lelo de Larrea-Mancera, E. S., Stavropoulos, T., Cheung, S., **Hoover, E. C.**, Palandrani, K. N., Molis, M. R., Eddins, D. A., Gallun, F. J., & Seitz, A. R. (2022). Validation of the Adaptive Scan method in the quest for more efficient methods for testing auditory processes. Association for Research in Otolaryngology 44th MidWinter Meeting. San Jose, CA, February.
11. Rickey, J., Kim, C., Trupp, J., **Hoover, E. C.**, Mansour, D. (2021). Screening for hearing loss in older adults during COVID-19 annual wellness visits: Lessons learned by PharmD and AuD candidates. American Society of Health-System Pharmacists Midyear Clinical Meeting, December.
12. **Hoover, E. C.** & Palandrani, K. N. (2021). Simulated audiometry reveals multiple asymptotic thresholds for the same listener depending on the number of presentations at threshold. The Journal of the Acoustical Society of America, 150(4), A340-A341. https://doi.org/10.1121/10.0008517
13. **Hoover, E. C.** & Palandrani, K. N. (2020). Biased sampling of Markov states explains fluctuating error in tracking procedures. The Journal of the Acoustical Society of America. (Conference canceled due to COVID-19)
14. Eddins, D. A., Ozmeral, E. J., **Hoover, E. C.**, Palandrani, K. N., Gallun, F. J. (2020). Spectral integration of temporal gap detection extends to maskers too. The Journal of the Acoustical Society of America, 148, 2463. https://doi.org/10.1121/1.5146804
15. **Hoover, E. C.**, Anderson, S. B., Goupell, M., & Gordon-Salant, S. (2019). Graduate programs at the University of Maryland. The Journal of the Acoustical Society of America, 145(3), 1705-1705.
16. Isarangura, S., Palandrani, K. N., Stavropoulos, T., Seitz, A., **Hoover, E. C.**, Gallun, F. J., & Eddins, D. A. (2019). The effects of modulator shape and methods for expressing modulation depth on spectral modulation detection thresholds. The Journal of the Acoustical Society of America, 145(3), 1722-1722.
17. Lelo de Larrea-Mancera, E. S., Stavropoulos, T., Gallun, F. J., Eddins, D. A., **Hoover, E. C.**, & Seitz, A. (2019). Portable psychoacoustics with passive and active noise-attenuating headphones. The Journal of the Acoustical Society of America, 145(3), 1877-1877.
18. Palandrani, K. N., **Hoover, E. C.**, Gallun, F. J., Eddins, D. A. (2019). The effects of duration on monaural and binaural temporal fine structure coding. Association

for Research in Otolaryngology 42nd MidWinter Meeting. Baltimore, MD, February.

19. **Hoover, E. C.**, Bell, K. L., Behrens, T., & Eddins, D. A. (2018). Blinded comparison of premium hearing aids and personal sound amplification products. International Hearing Aid Research Conference. Lake Tahoe, CA, August.
20. Bell, K. L., **Hoover, E. C.**, Eddins, D. A. (2018). Stimulated amplification for listeners with normal hearing sensitivity. American Auditory Society. Scottsdale, AZ, March.
21. Isarangura, S., **Hoover, E. C.**, Gallun, F. J., Eddins, D. A. (2018). Spectro-temporal modulation detection across multiple stimulus generation methods. American Auditory Society. Scottsdale, AZ, March.
22. Eddins, D. A., **Hoover, E. C.**, & Eddins, A. C. (2017). Distribution of spectral modulation functions in a young, normal-hearing population. J. Acoust. Soc. Am. 142(4), 2676-2676.
23. **Hoover, E. C.**, Kinney, B. N., Gallun, F. J., & Eddins, D. A. (2017). Perceptual evidence for two stages of temporal fine structure sensitivity: monaural and binaural. Aging and Speech Communication. Tampa, FL, October.
24. Shapiro, M., Clavier, O., **Hoover, E. C.**, Eddins, D. A. (2017). Hear Well: A Mobile Application for Auditory Training and Tinnitus Management. National Center for Rehabilitative Auditory Research (NCRAR) Biennial Conference. Portland, OR, October.
25. **Hoover, E. C.**, Gallun, F. J., Eddins, D. A., Diedesch, A. C. (2017). Psychometric properties of the modified Hughson-Westlake technique. American Auditory Society. Scottsdale, AZ, March.
26. **Hoover, E. C.,** Blackburn, M. C., & Souza, P. E. (2015). Fast frequency selectivity measures in listeners with severe hearing loss. J. Acoust. Soc. Am. 137(4), 2230-2230.
27. **Hoover, E. C.,** Souza, P. E., & Gallun, F. J. (2014). Degraded temporal processing after traumatic brain injury. J. Acoust. Soc. Am. 135(4), 2166-2166.
28. **Hoover, E. C.,** Souza, P. E., & Gallun, F. J. (2014). Objective confirmation of auditory complaints after traumatic brain injury. American Academy of Audiology. Orlando, FL, March.
29. Blackburn, M. C., Souza, P. E., Gallun, F. J., & **Hoover, E. C.** (2014). Clinical recommendations for measuring speech in noise in adults with hearing loss. American Academy of Audiology. Orlando, FL, March.
30. Souza, P. E., Blackburn, M. C., **Hoover, E. C.**, & Gallun, F. J. (2014). Characterizing severe hearing loss. American Auditory Society. Scottsdale, AZ, March.
31. **Hoover, E. C.,** Pasquesi, L., & Souza, P. E. (2013). Comparison of clinical and traditional temporal resolution tests. American Speech, Language, & Hearing Association. Chicago, IL, November.
32. Gallun, F. J., **Hoover, E. C.,** Sabin, A., & Souza, P. E. (2012). Acoustical analyses of high-frequency modulation in vocoded speech. American Auditory Society. Scottsdale, AZ, March.
33. **Hoover, E. C.,** Souza, P. E., & Gallun, F. J. (2011). A role for modulation sensitivity in age related declines in speech understanding? Aging and Speech Communication. Bloomington, IN, October.
34. Souza, P. E., Arehart, K. H., Kates, J. M., Croghan, N., Gehani, N., Muralinomahar, R., & **Hoover, E. C.** (2011). Age, hearing loss and cognition: Susceptibility to hearing aid distortion. Aging and Speech Communication. Bloomington, IN, October.

35. **Hoover, E. C.,** Souza, P. E., & Gallun, F. J., (2011). Modulation frequency discrimination and high-rate modulations in spectrally reduced speech. American Auditory Society. Scottsdale, AZ, March.
36. Souza, P. E., Meredith, M., & **Hoover, E. C.** (2011). Recognition of child, male and female speech with simulated electro-acoustic hearing. American Auditory Society. Scottsdale, AZ, March.
37. Arehart, K. H., Souza, P. E., Kates, J. M., Muralinomahar, R., Croghan, N., & **Hoover, E. C.** (2011). Effects of age and cognition on perception of frequency-compressed speech. American Auditory Society. Scottsdale, AZ, March.
38. Gallun, F. J., Souza, P. E., & **Hoover, E. C.** (2010). Evaluating hearing aid processing with an auditory model of modulation sensitivity. J. Acoust. Soc. Am. 127, 1848.
39. Souza, P. E., **Hoover, E. C.,** Gallun, F. J., & Brennan, M. (2010). Assessing envelope distortion in clinically-fit hearing aids. International Hearing Aid Research Conference (IHCON). Lake Tahoe, CA, August.
40. Souza, P. E., Gallun, F. J., & **Hoover, E. C.** (2009). A comparison of modulation indices for describing amplitude-compressed speech. J. Acoust. Soc. Am. 125, 2527.
41. Souza, P. E., **Hoover, E. C.,** & Gallun, F. J. (2009). Consonant feature transmission in spectrally reduced and amplitude-compressed speech. American Auditory Society. Scottsdale, AZ, March.
42. **Hoover, E. C.,** Gallun, F. J., & Souza, P. E. (2008). Evaluating strobed temporal integration as a model of temporal processing using spectrally reduced speech. American Auditory Society. Scottsdale, AZ, March.

II.C.5. Refereed Panels

1. **Hoover, E. C.** (2019). Mentoring Session: Job Search & Independence. Association for Research in Otolaryngology 42nd MidWinter Meeting, Baltimore, MD, February 9, 2019.

II.C.6. Non-Refereed Presentations

1. **Hoover, E. C.** (2019). Assistive Hearing Technologies. 5th Annual Auditory & Vestibular Translational Research Day, Baltimore, MD, November 17, 2019.
2. **Hoover, E. C.** (2019). Onset subordination in dichotic frequency modulation detection. Mid-Atlantic Symposium on Hearing (MASH) Conference, College Park, MD, February 7, 2019.

II.C.7. Symposia

1. **Hoover, E. C.**, Shilton, K., Palandrani, K. N., & Hoon-Starr, M. (2021). What does audiology value? University of Maryland Brain and Behavior Initiative Seed Symposium, College Park, MD, September 21, 2021.
2. **Hoover, E. C.**, Shilton, K., Palandrani, K. N., & Hoon-Starr, M. (2020). Competing values in hearing healthcare service delivery. University of Maryland Brain and Behavior Initiative Seed Symposium, College Park, MD (virtual), November 22, 2020.

II.D. Completed Creative Works and Scholarship

II.D.1. Software and Applications

1. Dorman, M., Spahr, M., **Hoover, E. C.**, & Khaydarov, S. (2006). Arizona State University Clinical Testing Utility [Computer Software]. Valencia, CA: Advanced Bionics.

II.E. Sponsored Research and Programs – Administered by the Office of Research Administration (ORA)

II.E.1. Grants

Current External:

National Institutes of Health, NIDCD, T32 DC000046
Title: Center of Comparative Evolutionary Biology of Hearing Training Grant
Source: National Institute on Deafness and Other Communication Disorders
Total Funding: $413,349
Dates: 07/01/2020 – 06/30/2025
Role: Core Faculty Member
PIs: Carr, Goupell

National Institutes of Health, NIDCD, R25 DC021130
Title: UMD-REACH Research Equity and Access in Communication and Hearing
Source: National Institute on Deafness and Other Communication Disorders
Total Funding: $1,248,941
Dates: 08/15/2023 – 08/14/2028
Role: Participating Faculty
PIs: Newman, Goupell

Current Internal:

UMD Grand Challenge
Title: Initiative on Values-Centered AI
Source: University of Maryland, College Park
Total Funding: $111,000
Dates: 07/01/2023 – 06/30/2025
Role: Co-PI
PIs: Hal Daumé (UMD), Katie Shilton (UMD), Jeff Horty (UMD), Vanessa Frías-Martínez (GWU)

Completed External:

Creare, Inc. (subcontract to Walter Reed National Military Medical Center, WRNMMC)
Title: Mobile Applications for Aural Rehabilitation – Functional Hearing Evaluation for Military Occupational Specialties
Total Funding: $111,200
Dates: 10/01/2022 – 12/31/2023
Role: Subcontract PI starting 06/01/2023
PIs: Gordon-Salant, Hoover

NIH R01 (Translational) DC015051
Title: Efficient diagnostic tools to evaluate central auditory dysfunction
Source: National Institute on Deafness and Other Communication Disorders
Total Funding: $452,302
Dates: 07/01/2017 – 06/30/2022
Role: Postdoctoral Researcher; Consultant

PIs: Gallun, F. J., Eddins, D. A., Seitz, A. R.

Defense Health Program SBIR Phase II W81XWH-15-C-0027
Title: Mobile application for aural rehabilitation
Source: Department of Defense
Total Funding: $149,998
Dates: 07/01/2015 – 06/30/2016
Role: Postdoctoral Researcher
PI: Clavier, O.

Completed Internal:

Dean's Research Initiative
Title: Toward a solution for untreated hearing loss in vulnerable populations
Source: University of Maryland, College Park
Total Funding: $2,500
Dates: 07/01/2023 – 06/30/2024
Role: Sponsor
PI: Menon, K. N.

Faculty-Student Research Award
Title: Validation of a novel assessment for the detection of changes in hearing
Source: University of Maryland, College Park
Total Funding: $10,000
Dates: 07/01/2023 – 06/30/2024
Role: Principal Investigator

Teaching and Learning Grant
Title: Reaching all students: An active-learning approach to infusing diversity, equity, and inclusion in the curriculum
Source: University of Maryland, College Park
Total Funding: $70,000
Dates: 07/01/2022 – 06/30/2023
Role: Participating Faculty
PIs: Mont, E., Nguyen, N., Anderson, S.

Teaching Innovation Grant
Title: Proposal to redesign Hearing and Speech Sciences audiology courses
Source: University of Maryland, College Park
Total Funding: $19,320
Dates: 07/01/2020 – 06/30/2021
Role: Principal Investigator
PIs: Anderson, S., Hoover, E. C., Gordon-Salant, S.

Brain and Behavior Initiative Seed Grant Program
Title: Competing values in hearing healthcare service delivery
Source: University of Maryland, College Park
Total Funding: $59,106
Dates: 07/01/2020 – 06/30/2021

Role: Principal Investigator
PIs: Hoover, E. C., Shilton, K.

II.F. Gifts, and Funded Research not administered by ORA

II.F.1. Other

Current External:

NIH Loan Repayment Program Award
Title: Evaluation of clinical tests of auditory temporal processing in adults with age-related hearing difficulty
Source: National Institutes of Health
Total Funding: $268,220
Dates: 07/01/2018 – 06/30/2025
Role: Principal Investigator
PIs: Hoover, E.C.

II.G. Research Fellowships, Prizes and Awards

1. Early Career Travel Subsidy, Acoustical Society of America, 2017
2. Student Scholarship, International Hearing Aid Research Conference, 2016
3. Kenneth R. Rearwin Scholarship, School of Communication, Northwestern University, 2013-2014
4. Student Travel Award, American Auditory Society's 35th Annual Science and Technology Conference, 2008
5. National Institutes of Health T35 Traineeship, National Center for Rehabilitative Auditory Research (NCRAR), VA Medical Center, Portland, OR, 2007

III. Teaching, Extension, Mentoring, and Advising

III.A. Courses Taught

III.A.1. Undergraduate

1. Hearing and Speech Sciences HESP 413: Aural Rehabilitation
   - Spring 2024 40 students
   - Spring 2023 48 students
   - Spring 2022 55 students
   - Spring 2021 45 students
   - Spring 2020 38 students
   - Spring 2019 48 students

III.A.2. Graduate

1. Hearing and Speech Sciences HESP 700: Hearing Aids I
   - Fall 2024 6 students
   - Fall 2023 14 students
   - Fall 2022 7 students
   - Fall 2021 4 students
   - Fall 2020 9 students
   - Fall 2019 11 students
   - Fall 2018 8 students
2. Hearing and Speech Sciences HESP 710: Industrial and Environmental Noise Problems
   - Fall 2024 9 students
   - Fall 2023 3 students

Fall 2022 8 students
Fall 2021 10 students
Fall 2020 7 students
Fall 2019 7 students

3. Hearing and Speech Sciences HESP 701: Hearing Aids II
   Spring 2023 7 students
   Spring 2022 4 students
   Spring 2021 9 students
   Spring 2020 11 students
   Spring 2019 8 students
4. Hearing and Speech Sciences HESP 849: Capstone Research Project I
   Fall 2024 1 student
   Fall 2021 1 student
   Fall 2020 2 students
5. Hearing and Speech Sciences HESP 859: Capstone Research Project II
   Spring 2022 1 student
   Spring 2021 2 students
6. Hearing and Speech Sciences HESP 898: Pre-Candidacy Research
   Fall 2022 1 student
   Spring 2022 1 student
   Fall 2021 1 student
   Spring 2021 1 student
   Fall 2020 1 student
   Spring 2020 1 student
   Fall 2019 1 student
7. Hearing and Speech Sciences HESP 899: Post-Candidacy Research
   Fall 2024 1 student
   Spring 2024 1 student
   Fall 2023 1 student
   Spring 2023 1 student

III.B. Advising: Research or Clinical

III.B.1. Undergraduate

1. Madisen Bonner, Summer 2024 – present
2. Marcee Wickline, Co-Mentor, April 2008, "Relationship between envelope distortion and recognition of compressed speech." *University of Washington*

III.B.2. Master's

III.B.3. Doctoral

Doctoral Dissertation (Ph.D.)

1. Katherine Menon (née Palandrani), Mentor, *Values in American Hearing Healthcare.* October 2024

Doctoral Dissertation Committee (Ph.D.)

2. Obada Al Qasem, Committee Member, Fall 2022 – present
3. Karina C. De Sousa, Thesis Examiner, January 2022, "Advancing application in digits-in-noise testing to detect and differentiate hearing loss." *University of Pretoria*
4. Mary Barrett, Committee Member, Fall 2020 – Fall 2022

Doctoral Capstone Research (Au.D.)

5. Emily (Bugs) Jorgensen, Fall 2024 – present
6. Alyssa Pasta, Mentor, Fall 2023 – present
7. Rebecca Lloyd, Mentor, Fall 2022 – present
8. Michelle Hoon-Starr, Mentor, "Value-sensitive design analysis of over-the-counter hearing aids." April 2022
9. Kathryn DuBois, Mentor, "The role of the masker in cognitive hearing science." April 2021
10. Rachel Moldenhauer, Mentor, "Using objective metrics to quantify and predict nonlinear hearing aid behavior." April 2021
11. Lauren Fessler, Co-Mentor, April 2017, "Evaluation of an app-based aural rehabilitation tool for tinnitus and difficulty understanding speech in noise." *University of South Florida*
12. Brianna Kinney, Co-Mentor, April 2016, "TomFoolery and Shenanigans – evaluation of potential clinical measures of temporal fine structure processing." *University of South Florida*
13. Patricia Gabbidon, Co-Mentor, April 2016, "Evaluation of the Continuous Number Identification Test." *University of South Florida*
14. Lauren Pasquesi, Co-Mentor, April 2013, "Temporal processing and compression release time in older listeners." *Northwestern University*
15. Gabriela Mari, Co-Mentor, April 2011, "Time-efficient spectral resolution measures in older listeners with hearing loss." *Northwestern University*
16. Alexandra Dykhouse, Co-Mentor, April 2010, "Using a temporal index to predict speech recognition." *University of Washington*

Doctoral Capstone Research Committee

17. Clarissa Wentzel, October 2024, "auditory acclimatization in new adult hearing aid users: a systematic review." *Primary mentor De Wet Swanepoel, University of Pretoria*
18. Logan Fraser, April 2022, *Primary mentor Samira Anderson*
19. Abigail Poe, April 2022, *Primary mentor Samira Anderson*
20. Sarah Weinstein, April 2022, *Primary mentor Matthew Goupell*
21. Kelly Brown, April 2022, *Primary mentor Nirmal Srinivasan, Towson University*
22. Kayla Coleman, April 2022, *Primary mentor Nirmal Srinivasan, Towson University*
23. Janet Kim, April 2021, "Normative psychoacoustic data in older adults using Portable Automated Rapid Testing (PART) iPad application." *Primary mentor Nirmal Srinivasan, Towson University*
24. Taylor Bakal, April 2021, "Head shadow, summation, and squelch in bilateral cochlear implant users with synchronized automatic gain controls." *Primary mentor Matthew Goupell*

III.C. <u>Advising: Other than Directed Research</u>

III.C.1. Doctoral

1. Academic Advising for Doctor of Audiology (Au.D.) Students
   Fall 2024 – Spring 2025 (7)
   Fall 2023 – Spring 2024 (7)
   Fall 2022 – Spring 2023 (8)
   Fall 2021 – Spring 2022 (12)
   Fall 2020 – Spring 2021 (9)

Fall 2019 – Spring 2020 (7)
Fall 2018 – Spring 2019 (4)

IV. Service and Outreach

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

IV.A.1. Reviewing Activities for Journals and Presses

1. The Journal of the Acoustical Society of America
2. Ear and Hearing
3. Journal of Speech, Language, and Hearing Research
4. PLOS One
5. Attention, Perception, & Psychophysics
6. Hearing Research
7. American Journal of Audiology
8. JASA Express Letters

IV.A.2. Reviewing Activities for Agencies and Foundations

1. 2019, Reviewer, Administration for Community Living, National Institute on Disability, Independent Living, and Rehabilitation Research, RERC

IV.A.3. Reviewing Activities for Conferences

1. 2022, Reviewer, International Hearing Aid Conference (IHCON)
2. 2022, Reviewer, International Hearing Aid Conference (IHCON) International Hearing Aid Seminar (IHAS)

IV.B. Committees, Professional & Campus Service

IV.B.1. Campus Service – Department

Current

1. HESP Programs, Curricula, and Courses Committee (Fall 2024 – present)
2. HESP CAUD Admissions Committee (Fall 2024 – present)
3. HESP Space Committee (Fall 2023 – present)
4. NACS Ph.D. Admissions Committee (Fall 2023 – present)
5. HESP Accreditation and Data Reporting Coordinator (Fall 2022 – present)
6. HESP CAUD Comprehensive Exam Coordinator (Fall 2021 – present)
7. HESP CAUD Program Planning Subcommittee (Fall 2018 – present)
8. HESP Teaching and Awards Committee (Fall 2018 – present)
9. HESP Ph.D. Admissions Committee (Fall 2018 – present)

Completed

1. HESP Seminar Coordinator (Fall 2018 – Spring 2022)
2. HESP Ad hoc Committee on Student Pay Levels (Fall 2021)
3. HESP Ad hoc Committee on Mentorship (Fall 2021 – Spring 2022)
4. HESP Merit Review Committee (Spring 2022)
5. HESP 2023 Faculty Search Committee – Powell (Fall 2022 – Spring 2023)
6. HESP 2024 Faculty Search Committee – Kane (Fall 2023 – Spring 2024)

I.A.2. Campus Service – University

1. UMD Faculty Senate (Fall 2019 – Spring 2022)
2. UMD Committee on Programs, Curricula, and Courses (Fall 2019 – Spring 2021)

I.A.3. Leadership Roles in Meetings and Conferences

1. Session chair, 174th Meeting of the Acoustical Society of America (Fall 2019)

2. Special session organizer, International Hearing Aid Conference (IHCON) International Hearing Aid Seminar (IHAS), (Summer, 2022)

I.A.4. Other Non-University Committees, Memberships, Panels, etc.

1. Acoustical Society of America Committee on Standards (Spring 2022 – present)
2. Acoustical Society of America, Physiology and Psychophysics Task Force of Remote Data Collection (Spring 2020 – Fall 2021)

I.B. External Service and Consulting

I.B.1. Consultancies

1. Research Consultant, Auditory and Speech Sciences Laboratory, University of South Florida (Fall 2019 – Spring 2022)

I.C. Community & Other Service

I.C.1. Community Service

1. Senior Scientists, Rockville Senior Center (2024 – present)
2. Aging in Place, Lamy Center on Drug Therapy and Aging (2020 – 2022)
3. Hearing screening, Special Olympics Florida (2015)
4. Aural rehabilitation course instructor, Presbyterian Homes (2013)
5. Provision of hearing protective devices, various events (2007 – 2011)
6. Hearing screening, Special Olympics Washington Healthy Athletes (2006 – 2007)
7. Hearing screening, Arizona Children's Health Fair (2005)