

DAVID A. EDDINS

Dept. of Communication Sciences and Disorders
 University of South Florida
 4202 E. Fowler Avenue, PCD 1017
 Tampa, FL 32620
<http://assl.cbcs.usf.edu>

deddins@usf.edu
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EDUCATION:

Ph.D. 1993 University of Florida, Major: Experimental Psychology
 M.S. 1988 University of North Carolina, Major: Audiology
 A.B. 1986 University of North Carolina, Major: Speech and Hearing Science

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

Professor 2014 – Present	Departments of Communication Sciences & Disorders, Chemical & Biomedical Engineering, University of South Florida, Tampa, FL
Director 2010 – Present	Auditory & Speech Sciences Laboratory, University of South Florida, Tampa, FL
Adjunct Professor 2014 – Present	Department of Communicative Sciences and Disorders, Michigan State University, East Lansing, MI
Adjunct Associate Professor 2013 – Present	Department of Communicative Sciences and Disorders, Michigan State University, East Lansing, MI
Associate Professor 2010 – 2014	Departments of Communication Sciences & Disorders, Chemical & Biomedical Engineering, University of South Florida, Tampa, FL Director, Auditory & Speech Sciences Laboratory
Associate Director 2010 – Present	Global Center for Hearing & Speech Research, University of South Florida, Tampa, FL
Adjunct Associate Professor Senior Scientist January 2008 – 2010	Center for Access Technology, National Technical Institute for the Deaf (NTID), Rochester Institute of Technology, Rochester, NY
Associate Professor June 2005 – 2010	Department of Otolaryngology, University of Rochester School of Medicine and Dentistry, Rochester, NY
Associate Professor June 2005 – 2010	Strong Health Audiology, University of Rochester School of Medicine and Dentistry, Rochester, NY
Adjunct Associate Professor June 2005 – 2010	Program in Rehabilitative Science, University at Buffalo
Senior Scientist May 2004 – 2010	International Center for Hearing & Speech Research, National Technical Institute for the Deaf, Rochester Institute of Technology, Rochester, NY
Associate Professor July 2001 – May 2005	Department of Communicative Disorders & Sciences, Centers for Hearing & Deafness and Cognitive Science, Program in

	Rehabilitative Science, Director, Clinical Hearing Research Center, Director, Psychoacoustics Laboratory, University at Buffalo
Assistant Professor August 1999- June 2001	Department of Communicative Disorders & Sciences, Centers for Hearing & Deafness and Cognitive Science, Program in Rehabilitative Science, Director, Psychoacoustics Laboratory, University at Buffalo
Assistant Professor August 1994- June 1999	Department of Speech & Hearing Sciences and Cognitive Science Program, Director, Psychoacoustics Laboratory, Indiana University
Postdoctoral Associate August 1993 - July 1994	Psychoacoustics Laboratory, Department of Psychology, University of Florida (Sponsor: David M. Green)
Graduate Research Assistant July, 1990 - August 1993	Psychoacoustics Laboratory, Department of Psychology, University of Florida
Research Audiologist January 1990 - July 1990	Division of Otolaryngology, Department of Surgery, University of North Carolina, Chapel Hill
Clinical Fellow/Scientist August 1988 - December 1989	Long Beach Veterans Administration Medical Center, Long Beach California
Research Audiologist May 1988 - July 1988	Division of Otolaryngology, Department of Surgery, University of North Carolina, Chapel Hill
Graduate Research Assistant May 1987 - April 1988	Division of Otolaryngology, Department of Surgery, University of North Carolina, Chapel Hill

PROFESSIONAL AND ACADEMIC HONORS:

- 2020 Membership in National Academy of Inventors, USF Chapter
- 2020 Best Paper Award, Journal of Voice. Anand, S., Kopf, L.M., Shrivastav, R., Eddins, D.A. (2018). "Objective indices of perceived vocal strain."
- 2019 Outstanding Faculty Award, University of South Florida
- 2018 Elected to the AIMBE (American Institute for Medical and Biological Engineering) College of Fellows
- 2017 Faculty Outstanding Research Achievement Award, University of South Florida
- 2015 Outstanding Research Achievement Award, College of Behavioral & Community Sciences, University of South Florida
- President, Florida Chapter of the Acoustical Society of America: 2015 – 2019
- 2015 Distinguished Alumnus Award, Division of Speech and Hearing Sciences, University of North Carolina

- 2013 Faculty Outstanding Research Achievement Award, University of South Florida
- Fellow, Acoustical Society of America, 2012
- E. Porter Horne Memorial Scholarship, Outstanding Student in Sensory Psychology, Department of Psychology, University of Florida, 1992.

FUNDED RESEARCH GRANTS AND CONTRACTS (Current awards in bold font)

- 1) ***“Pediatric dysphonia: Multidisciplinary advances to improve voice quality outcomes.” (PI, NIH NIDCD R01) 06/01/21 – 05/31/26.***
- 2) ***“Self Management of Hearing Devices” (PI, Bose Corp) 05/01/20 – 12/31/20.***
- 3) ***“Bose Device Comparison 2.0” (Co-PI, Bose Corp) 09/15/19 – 12/31/20.***
- 4) ***“Toward a more intelligent hearing system.” (PI, Sonova Inc.) 04/15/19 – 04/14/22***
- 5) ***“Individualized Signal Processing Strategy (ISPS): Phase II.” (PI University Subaward, NIH NIDCD SBIR Phase II) 04/01/17 – 03/31/21***
- 6) ***“Toward an Intervention for Severe Hyperacusis.” (MPI, NIH NIDCD R21) 9/01/16 – 08/31/21.***
- 7) ***“Mobile application for aural rehabilitation.” (PI University Subaward, DoD DHS SBIR Phase II) 03/01/16 – 02/28/20.***
- 8) ***“Efficient measures of central auditory processing.” (MPI, NIH NIDCD R01) 4/01/16 – 03/31/21.***
- 9) ***“Aging auditory system: Presbycusis and its neural bases.” (PI, Project 1, NIH/NIA P01) 3/01/16 – 2/28/21.***
- 10) ***“Psychoacoustic approach to dysphonic voice quality perception.” (MPI, NIH NIDCD R01) 07/01/13 – 06/30/20.***
- 11) ***“Electroacoustic and Quality Evaluation.” (PI, Bose Corp) 09/01/19 – 11/30/19.***
- 12) ***“Sound quality comparison of Bose Hearphones and Premium Hearing Aids.” (PI, Bose Inc.) 11/15/18 – 07/31/19.***
- 13) ***“Individualized Signal Processing Strategy (ISPS): Phase II.” (PI, Florida High Tech Corridor Matching Funds) 04/01/18 – 03/31/19***
- 14) ***“Analysis and development supporting new generations of binaural hearing systems.” (PI, Sonova Inc.) 04/01/17 – 03/31/19***
- 15) ***“Laboratory Comparisons of Premium Hearing Aids and High-End PSAPS.” (PI, Oticon, Inc.) 03/15/2017 – 02/01/2018***
- 16) ***“Spatial Hearing: Q2Pro Evaluation.” (PI, Unitron Inc.). 03/04/14 – 03/01/16.***

- 17) "*Individualized Signal Processing Strategy to Reduce Hearing Health Care Cost/Disparities.*" (PI, Sub-Award, NIH NIDCD R43 SBIR). 01/29/14 – 07/28/14.
- 18) "*An Adaptive User-Guided Assistive Listening System.*" (PI, Sub-Award, NSF RAPD), 10/01/10 – 9/30/14.
- 19) "*Impact of Voice iQ^2 on Acceptable Noise Level Measures.*" (PI, Starkey Laboratories Inc.) 01/01/12 – 09/15/12.
- 20) "*NIH Toolbox Auditory Instrument Validation.*" (Co-I, NorthShore). 09/15/11 – 07/15/12.
- 21) "*NIH Toolbox Auditory Instrument Development.*" (Co-I, NorthShore). 03/01/10 – 06/30/10.
- 22) "*Impact of SmartFocus Control on Speech in Noise.*" (PI, Unitron Hearing, Ltd.) 07/15/09 – 10/01/09.
- 23) "*Hearing in HIV/Aids.*" (Co-I, NIH RO1). 08/01/09 – 10/10/2010.
- 24) "*A psychoacoustic approach to dysphonic voice quality perception in vowels.*" (PI on Sub Award, NIH NIDCD R01). 07/01/08 – 06/30/13.
- 25) "*Aging Auditory System: Presbycusis and its Neural Bases*" (Co-I: NIH/NIA P01). 06/01/06 – 05/30/10.
- 26) "*Premium Hearing Aid Comparison: Unitron Yuu, Oticon Epoch & Starkey Destiny 1600.*"(PI, Unitron Hearing, Ltd.). 03/01/08 – 7/01/08.
- 27) "*Evaluation of digital transient noise reduction and speech enhancement in the Unitron Element hearing aid.*"(PI, Unitron Hearing, Ltd.). 08/15/06 – 12/15/06.
- 28) "*Unitron Element Field Trial.*" (PI, Unitron Hearing, Ltd.) 07/15/06 – 10/15/06.
- 29) "*To Establish the Clinical Hearing Research Center of Western New York.*" (Co-I, William G. McGowan Charitable Fund, Inc.) 01/01/03-12/31/04.
- 30) "*Aging Auditory System: Presbycusis and its Neural Bases.*" (Consultant: NIH/NIA P01). 03/01/03 – 05/30/05
- 31) "*Measuring Breathiness with an Auditory Processing Model.*" (Consultant: NIH/NIDCD R21, Rahul Shrivastav PI) 5/01/04 – 4/30/06.
- 32) "*SykofizX: Software Project.*" (PI, UB STOR) 08/01/03 – 06/31/04.
- 33) "*Conversa Feedback Clinical Trials.*" (PI, Unitron Hearing, Ltd.). 08/01/2003 – 06/30/04
- 34) "*The Influence of Active Noise Reduction on Tinnitus and Hyperacusis.*" (PI, Bose Corporation).02/01/02-12/31/02.
- 35) "*Dynamic Attending and the Perception of Patterns in Time.*" (Consultant, NIH/NIDCD R01, C.S.Watson, PI). 10/01/00 – 09/31/03. "
- 36) "*Applied Physics of Sound : Interactive Courseware.*" (PI, UB Provost Educational Technology Initiative). 03/01/00 - 06-31-01.
- 37) "*Monaural and Binaural Spectro-Temporal Processing.*" (PI, NIH/NIDCD R01). 07/01/99 - 06/30/04.
- 38) "*CD-Based Home Hearing Evaluation.*" (PI, Sub Award, NIH/SBIR). Funded 06/01/97 - 05/31/98.

- 39) “*Training in Speech, Hearing, and Sensory Communication.*” (Faculty, NIH/NIDCD T32). 1996-1999.
- 40) “*Sensory and Cognitive Predictors of Academic Success.*” (Co-PI, Indiana University SDC Program). Funded 12/01/95.
- 41) “*Functional Localization of Auditory Perception for Speech and Non-speech Sounds.*” (Co-PI, Physiological Imaging Research Center, IUPUI). Funded 12/01/95 - 06/01/98.

INTELLECTUAL PROPERTY/PRODUCT DEVELOPMENT/TECHNOLOGY TRANSFER

Eddins, D.A., Formby, C., and Armstrong, S. “Method for Treating Debilitating Hyperacusis,” Patent #10,582,286, March 3, 2020.

Eddins, D.A., Borkholder, D.A., Amuso, V. “Adaptive User-Guided Assistive Listening System,” Patent # 9,729,994, August 8, 2017.

Eddins, D. A. (2004-Present). SykofizX: Software for designing and conducting psychophysical experiments. Currently licensed to Tucker-Davis Technologies, Inc.

BIBLIOGRAPHY

Textbooks

Eddins, D.A., Kewley-Port, D., Kehle, P. (2003). *Mathematics and Physics for Speech and Hearing: A problem-based approach*. Thomson-Delmar Learning: Clifton Park, NY.

Book Chapters and Proceedings

- 1) Kopf, L.M., Skowronski, M.D., Shrivastav, R., Eddins, D.A. (2013). “An exciting comparison: ROEX versus compressive gammachirp auditory excitation patterns in models of voice quality,” Proceedings of the 10th International Conference on Advances in Quantitative Laryngology, Voice, and Speech Research, June 3-4, 2013, Cincinnati, Ohio, USA.
- 2) Eddins, D.A., and Hall, J.W. (2010). “Binaural Processing and Auditory Asymmetries,” in Temporal resolution in listeners with hearing impairment,” in *The Aging Auditory System: Perceptual Characterization and Neural Bases of Presbycusis* edited by S. Gordon-Salant, R.D. Frisina, A.N. Popper, and R.R. Fay (Springer, New York).
- 3) Eddins, D.A. (2004). “Temporal resolution in listeners with hearing impairment,” in MIT Encyclopedia of Communication Disorders, edited by Raymond Kent (MIT Press, Cambridge).
- 4) Eddins, D.A., and Green, D.M. (1995). “Temporal integration and temporal resolution,” in *Handbook of Perception and Cognition*, Vol. 6, Hearing, edited by B.C.J. Moore (Academic Press, New York).
- 5) Eddins, D. A. (1998). “Estimates of temporal resolution at low and high spectral frequencies,” Proceedings of the 16th International Congress on Acoustics, 827-828.

Refereed Journal Articles (contemporaneous student and post-doctoral mentees are underlined)

- 1) Stavropoulos, T.A., Isarangura, S., Hoover, E.C., Eddins, D.A., Seitz, A.R., Gallun, F.J. (**In Review**). “Exponential spectro-temporal modulation.”
- 2) De Larrea-Mancera, E.S.L., Stavropoulos, T.A., Hoover, E.C., Eddins, D.A., Gallun, F.J., Seitz, A.R. (**In Review**). “Portable Automated Rapid Testing (PART) for auditory assessment: Validation in a young adult normal-hearing population.”
- 3) Yellamsetty, A., Ozmeral, E.J., Budinsky, R.A., Eddins, D.A. (**In Review**). “A comparison of environment classification among premium hearing instruments.”

- 4) Isarangura, S., Eddins, A.C., Palandrani, K.N., Stavropoulos, T., Seitz, A., Hoover, E.C., Gallun, F.J., Eddins, D.A. (**In Review**) "Methods for expressing spectral modulation depth and the effects of modulator shape on spectral modulation detection thresholds."
- 5) Hoover, E.C., Bell, K.L., Behrens, T., Eddins, D.A. (**In Review**). "Blinded comparison of premium hearing aids and personal sound amplification products."
- 6) Eddins, D.A., Anand, S., Lang, A., Shrivastav, R. (**2020**). "Developing Clinically Relevant Scales of Breathiness and Rough Voice Quality," *Journal of Voice*. Eddins, D.A., Anand, S., Lang, A., Shrivastav, R. (2020). "Developing Clinically Relevant Scales of Breathiness and Rough Voice Quality," *Journal of Voice*. DOI: 10.1016/j.jvoice.2019.12.021
- 7) Ozmeral, E.J., Hoover, E.C., 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*. <https://doi.org/10.1080/14992027.2020.1718782>.
- 8) 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 on Acoustics*, 36, 050003; <https://doi.org/10.1121/2.0001032>.
- 9) Anand, S.A., Kopf, L.M., Shrivastav, R., Eddins, D.A. (**2019**). "Using Pitch Height and Pitch Strength to Characterize Type 1, 2, and 3 Voice Signals," *Journal of Voice*, <https://doi.org/10.1016/j.jvoice.2019.08.006>.
- 10) Isarangura, S., Eddins, A.C., Ozmeral, E.J., Eddins, D.A. (**2019**). "The effects of duration and level on spectral modulation perception." *Journal of Speech-Language-Hearing Research*, *In Press*.
- 11) Hoover, E.C., Kenney, B.N., Bell, K.L., 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-Hearing Research*, Jun 19;62(6):2018-2034. doi: 10.1044/2019_JSLHR-H-18-0217.
- 12) Ozmeral, E.J., Eddins, A.C., Eddins, D.A. (**2019**). "Electrophysiological responses to lateral shifts are not consistent with opponent-channel processing of interaural level differences," *Journal of Neurophysiology*, 122(2):737-748. doi: 10.1152/jn.00090.2019.
- 13) Kemp, A., Eddins, D.A., Shrivastav, R., Hampton-Wray, A. (**2019**). "Neural processes underlying semantics as correlates of listening effort: An event-related potentials study." *Journal of Speech, Language, Hearing Research* 62, 367-386.
- 14) Ozmeral, E.J., Eddins, A.C., Eddins, D.A. (**2018**). How do age and hearing loss impact spectral envelope perception? *Journal of Speech, Language, and Hearing Research*. doi:10.1044/2018_JSLHR-H-18-0056
- 15) Anand, S., Kopf, L.M., Shrivastav, R., Eddins, D.A. (**2018**). "Objective indices of perceived vocal strain," *Journal of Voice*. <https://doi.org/10.1016/j.jvoice.2018.06.005>
- 16) Anand, S., Skowronski, M. D., Shrivastav, R., and Eddins, D.A. (**2018**). "Perceptual and quantitative assessment of dysphonia across vowel categories," *Journal of Voice*, 33(4), 473-481.
- 17) Eddins, A.C., Eddins DA. (**2018**) Cortical Correlates of Binaural Temporal Processing Deficits in Older Adults. *Ear & Hearing*, 39(3):594-604. doi: 10.1097/AUD.0000000000000518. Epub 2017 Nov 9; PMID: 29135686.
- 18) Eddins, A.C., Ozmeral, E.J., Eddins, D.A. (**2018**) How aging impacts the encoding of binaural cues and the perception of auditory space. *Hearing Research*, 369:79-89. doi.org/10.1016/j.heares.2018.05.001. NIHMS 965979
- 19) Hoover, E.C., Eddins, A.C., Eddins, D.A. (**2018**). Distribution of spectral modulation transfer functions in a young, normal-hearing population. *Journal of the Acoustical Society of America*, 143(1):306. doi: 10.1121/1.5020787: PMID: 29390785
- 20) Kopf, L.M., Skowronski, M.D., Anand, S., Eddins, D.A., & Shrivastav, R. (**2017**). "The perception of breathiness in the voices of pediatric speakers," *Journal of Voice*, 33(2), 204-213.

- 21) Eddins, A.C., & Eddins, D.A. (2017). "Cortical Correlates of Binaural Temporal Processing Deficits in Older Adults," *Ear and Hearing*, May/Jun;39(3):594-604. doi: 10.1097/AUD.0000000000000518.
- 22) Ozmeral, E.J., Eddins, D.A., & Eddins, A.C. (2016). "Reduced temporal processing in older, normal-hearing listeners evident from electrophysiological responses to shifts in interaural time difference." *Journal of Neurophysiology*, 116(6): 2720–2729; doi: 10.1152/jn.00560.2016; PMID: PMC5133308; PMID: 27683889.
- 23) Ozmeral, E.J., Eddins, A.C., Frisina, D.R., Eddins, D.A. (2016). "Large cross-sectional study of presbycusis reveals rapid progressive decline in auditory temporal acuity," *Neurobiology of Aging* 43, 72-78
- 24) Eddins, D.A., Anand, S., Camacho, A., Shrivastav, R. (2016). "Modeling of Breathy Voice Quality Using Pitch Strength Estimates," *Journal of Voice*, 30(6): 774.e1–774.e7; 10.1016/j.jvoice.2015.11.016; PMID: 26775221.
- 25) Eddins, D.A., Kopf, L.M., Shrivastav, R. (2015). "The psychophysics of roughness applied to dysphonic voice," *Journal of the Acoustical Society of America* 138, 3820-3825.
- 26) Kelly, M. R.; Amuso, V. J.; Eddins, D. A.; Borkholder, D. A. (2014) "The focal index as a singular metric for beamforming effectiveness," *Journal of the Acoustical Society of America* 136 (5), 2654-64
- 27) Eddins, D.A., and Shrivastav, R. (2013). "Psychometric Properties Associated with Perceived Vocal Roughness Using a Matching Task," *Journal of the Acoustical Society of America* 134 294-300.
- 28) Eddins, D.A., Arnold, M., Klein, A., Ellison, J. (2013). Individual variability in unaided and aided measurement of acceptable noise level," *Seminars in Hearing* 34, 118-127.
- 29) Sabin A.T., Clark C.A., Eddins D., Wright, B.A. (2013). "Different patterns of perceptual learning on spectral modulation detection between older hearing-impaired and younger normal-hearing adults," *Journal of the Association for Research in Otolaryngology*, 14, 283-294.
- 30) Zecker S.G., Hoffman, H.J., Frisina, R., Dubno, J.R., Dhar, S., Wallhagen, M., Kraus, N., Griffith, J.W., Walton, J.P., Eddins, D.A., Newman, C., Victorson, D., Warrier, C.M., Wilson, R.H. (2013). "Audition assessment using the NIH Toolbox," *Neurology* 12;80(11 Suppl 3):S45-8. doi: 10.1212/WNL.0b013e3182872dd2.
- 31) Sabin, A., Eddins, D.A., Wright, B.A.. (2012). "Perceptual learning of auditory spectral modulation detection," *Experimental Brain Research* 218, 567-577.
- 32) Patel, S.A., Shrivastav, R., and Eddins, D.A. (2012). "Identifying a comparison for matching rough voice quality." *Journal of Speech, Language, Hearing Research* 55, 1407-22.
- 33) Newman, D.L., Fisher, L.M., Ohmen, J., Fong, C., Frisina, S.T., Mapes, F., Eddins, D.A., Frisina, D.R., Frisina, R.D., Friedman, R.A. (2012). "GRM7 variants 1 associated with age-related hearing loss based on auditory perception," *Hearing Research* 294, 125-32.
- 34) Liu, C., and Eddins, D.A. (2012). "Measurement of stop consonant identification using adaptive tracking procedures," *Journal of the Acoustical Society of America* 123, EL250 – EL256.
- 35) Eddins, D. A., and Liu, C. (2012). "Psychometric properties of the coordinate response measure corpus with various types of background interference," *Journal of the Acoustical Society of America* 131, EL177–EL183.
- 36) Sabin, A., Eddins, D.A., Wright, B.A. (2012). "Perceptual learning evidence for tuning to spectro-temporal modulation in the human auditory system." *Journal of Neurophysiology* 32, 6542-6549.
- 37) Shrivastav, R., Anand, S., Eddins, D.A. (2012). "Pitch Strength of Normal and Dysphonic Voices." *Journal of the Acoustical Society of America* 131, 2261–2269.
- 38) Patel, S.A., Shrivastav, R., and Eddins, D.A. (2012). "Developing a single reference signal for matching breathy voice quality," *Journal of Speech, Language, Hearing Research* 55, 639-647.

- 39) Patel, S.A., Shrivastav, R., and Eddins, D.A. (2011). "Perceptual distances of breathy voice quality: A comparison of psychophysical methods," *Journal of Voice* 24(2), 168-177.
- 40) Shrivastav, R., Camacho, A., Patel, S., Eddins, D.A. (2011). "A model for the prediction of breathiness in vowels," *Journal of the Acoustical Society of America*, 125 1605-1615.
- 41) Allen, P. D., Eddins, D. A. (2010). "Presbycusis phenotypes form a heterogeneous continuum when ordered by degree and configuration of hearing loss," *Hearing Research* 264, 10 – 20.
- 42) Saoji, A. A., Litvak, L., Spahr, A. J., and Eddins, D. A. (2009). "Spectral envelope perception and vowel and consonant identification in cochlear implant listeners," *Journal of the Acoustical Society of America* 126, 955-958.
- 43) Hayes, D., and Eddins, D. A. (2008). "Comparison of Three Premium Products: Does Design Philosophy Matter?" *The Hearing Review*: Dec 2008.
- 44) Liu, C., and Eddins, DA (2008). "Effects of Spectral Modulation Filtering on Vowel Identification," *Journal of the Acoustical Society of America*, 124, 1704-1715.
- 45) Liu, C., and Eddins, DA (2008). "Categorical dependence of vowel detection in long-term speech-shaped noise," *Journal of the Acoustical Society of America* 123, 4539-4546.
- 46) Qian, J., and Eddins, D. A. (2008). "The role of spectral modulation cues in virtual sound localization," *Journal of the Acoustical Society of America*, 123, 302-314
- 47) Saoji, A. A., and Eddins, D. A. (2007). "Spectral modulation masking patterns reveal tuning to spectral envelope frequency," *Journal of the Acoustical Society of America* 122, 1004-1013.
- 48) Eddins, D. A., and Bero, E. M. (2007). "Spectral modulation detection as a function of modulation frequency, carrier bandwidth, and carrier frequency region," *Journal of the Acoustical Society of America*. 121 363-372.
- 49) Watson, C.S., Kidd, G.R., Connell, P. J., Eddins, D. A., Gospel, M. D., Watson, B. U., Horner, D. H., Goss, D. A., Lowther, A., Rainey, B. B., and Krueger, G. (2003). "Sensory, cognitive, and linguistic factors in the early academic performance of elementary-school children: Then Benton-IU project," *Journal of Learning Disabilities* 36, 165-197.
- 50) Kehle, P. E., Kewley-Port, D., and Eddins, D. A. (2001). "Say Ah: Identifying voice pathologies by studying harmonic-to-noise ratios," Consortium Fall, 2001, Cambridge, MA: COMAP.
- 51) Eddins, D.A. (2001). "Measurement of auditory temporal processing using modified masking period patterns," *Journal of the Acoustical Society of America* 109, 1550-1558.
- 52) Eddins, D.A. (2001). "Monaural masking release in random-phase and low-noise noise," *Journal of the Acoustical Society of America* 109, 1538-1549.
- 53) Eddins, D.A. (1999). "Amplitude Modulation Detection at low and high audio frequencies," *Journal of the Acoustical Society of America* 105, 829-837.
- 54) Eddins, D.A., and Barber, L.E. (1998). "The influence of stimulus envelope and fine structure on the binaural masking level difference," *Journal of the Acoustical Society of America* 103, 2578-2589.
- 55) Eddins, D.A., and Wright, B.A. (1994). "Comodulation masking release for single and multiple rates of envelope fluctuation," *Journal of the Acoustical Society of America*, 96, 3432-3442.
- 56) Eddins, D.A. (1993). "Amplitude modulation of narrow-band noise: Effects of absolute bandwidth and frequency region," *Journal of the Acoustical Society of America*, 93, 470-479.
- 57) Eddins, D.A., Hall, J.W., and Grose, J.H. (1992). "The detection of temporal gaps as a function of frequency region and absolute noise bandwidth," *Journal of the Acoustical Society of America*, 91, 1069-1077.
- 58) Green, D.M., Berg, B.G., Dai, H., Eddins, D.A., Onsan, Z., and Nguyen, Q. (1992). "Spectral shape discrimination of narrowband sounds," *Journal of the Acoustical Society of America*, 92, 2586-2597.

- 59) Grose, J.H., Eddins, D.A., and Hall, J.W. (1989). "Gap detection as a function of stimulus bandwidth with fixed high-frequency cutoff in normal-hearing and hearing-impaired listeners," *Journal of the Acoustical Society of America*, 86, 1747-1755.

Published Abstracts

- 1) Eddins, D.A., Ozmeral, E.J., Hoover, E.C., Palandrani, K.N., Gallun, F.J. (2020). "Spectral integration in temporal gap detection extends to maskers too," *Acoustical Society of America*, Virtual Fall Meeting.
- 2) Lertpoompunya, A., Ozmeral, E.J., Higgins, N., Eddins, A.C., Eddins, D.A. (2020). "Neural correlates of extremely large individual differences in interaural cross-correlation detection," *Acoustical Society of America*, Virtual Fall Meeting.
- 3) Cherri, D., Ozmeral, E.J., Eddins, D.A. (2020). "Evaluating the impact of external noise on psychoacoustic testing using the Portable Automated Rapid Test (PART) platform," *Acoustical Society of America*, Virtual Fall Meeting.
- 4) Isarangura, S., Eddins, D.A., Ozmeral, E.J., Lutfi, R.L., Eddins, A.C. (2020). "Neural encoding and perceptual decision weights associated with attention to different acoustic spectral features," *Acoustical Society of America*, Virtual Fall Meeting.
- 5) De Larrea-Mancera, E.S.L., Koerner, T.K., Jakien, K.M., Stavropoulos, T., Grabowski, T. J., Eddins, D.A., Gallun, F. J. (2020). "Validation of Portable Automated Rapid Testing (PART) for auditory research in an older population," *Acoustical Society of America*, Virtual Fall Meeting.
- 6) Anand, S., Shrivastav, R., Eddins, D.A. (2020). "Effects of covarying breathiness and roughness on dysphonia severity in natural voices," *Voice Foundation Symposium*, Philadelphia, PA.
- 7) Eddins, D.A., (2020). "The effects of masker bandwidth and marker-to-masker ratio on temporal gap detection," *Acoustical Society of America*, Chicago, IL.
- 8) Lertpoompunya, A., Ozmeral, E.J., Eddins, D.A. (2020). "Why is the just-noticeable difference of interaural cross-correlation poor in some normal hearing listeners?" *Acoustical Society of America*, Chicago, IL.
- 9) Lelo de Larrea-Mancera, E.S., Koerner, T.K., Jakien, K.M., Stavropoulos, T., Grabowski, T.J., Eddins, D.A., Seitz, A., Gallun, F.J., (2020). "Validation of portable automated rapid testing (PART) for auditory research in an older population," *Acoustical Society of America*, Chicago, IL.
- 10) Isarangura, S., Eddins, D.A., Ozmeral, E.J., Lutfi, R., Eddins, A.C. (2020). "Neural encoding of attention and perceptual decision weights during a spectral modulation task," *Acoustical Society of America*, Chicago, IL.
- 11) Eddins, D.A. (2019). "Successful Research Grant Writing in Communication Sciences & Disorders: Advice from the Experts," *ASHA Convention*, Orlando, FL.
- 12) Eddins, D.A., Eddins, A.C. (2019). "Consideration of Central Auditory Plasticity in the Treatment of Tinnitus and Hyperacusis," *ASHA Convention*, Orlando, FL.
- 13) Anand, S., Shrivastav, R., Eddins, D.A. (2019). "Pitch-Based measures Are Better Descriptors for Pediatric Voices With Supraglottic Vibratory Sources," *ASHA Convention*, Orlando, FL.
- 14) Hutchison, P., Eddins, A.C., Eddins, D.A. (2019). "Indexing Central Auditory Plasticity Following Short Term Unilateral Earplug Use," *ASHA Convention*, Orlando, FL.
- 15) Eddins, D.A., Anand, S., Shrivastav, R. (2019). "Validation of Novel Clinical Scales for Voice Quality Perception," *Voice Foundation Symposium*, Philadelphia, PA.
- 16) Eddins, D.A., Anand, S., Shrivastav, R. (2019). "Interactions among perceived breathiness, roughness, and overall severity of dysphonia," *Acoustical Society of America*, Louisville, KY.
- 17) Isarangura, S., Eddins, D.A. (2019). "The Effects of Modulator Shape and Methods for Expressing Modulation Depth on Spectral Modulation Detection Thresholds," *Acoustical Society of America*, Louisville, KY.

- 18) De Larrea-Mancera, E. S., Stavropoulos, T., Gallun, F., Eddins, D.A., Seitz, A. (2019). "Portable psychoacoustics with passive and active noise-attenuating headphones," Acoustical Society of America, Louisville, KY.
- 19) Ozmeral, E.J., Palandrani, K., Eddins, D.A., Eddins, A.C. (2019). Cortical effects on spatial tuning to speech in background babble," Acoustical Society of America, Louisville, KY.
- 20) Eddins, D.A. (2019). "A Novel Treatment for Hyperacusis," American Academy of Audiology, Columbus, OH.
- 21) Eddins, D.A., Hayes, D., Ozmeral, E.J., el Guindi, N. (2019). "Hearing aid spatial hearing systems: relationship between instrument performance and behavioral outcomes," American Academy of Audiology, Columbus, OH.
- 22) Eddins, D.A. (2019). "Recent trends in hearing aid technology," India Speech and Hearing Conference.
- 23) Eddins, D.A., Anand, S., Shrivastav, R. (2018). "A Psychoacoustic Approach to Understanding Dysphonic Voice Perception: Quantifying Breathiness and Roughness in Vowels and Sentences," World Congress of Audiology, Cape Town, South Africa.
- 24) Eddins, A.C., Maeda, H.B., Silvani, J., Eddins, D.A. (2018). "Effects of short-term monaural deprivation on auditory plasticity in the cortex," World Congress of Audiology, Cape Town, South Africa.
- 25) Eddins, D.A., Ozmeral, E.J. (2018). "Environmental Classification: A Comparison Among Premium Hearing Instruments," World Congress of Audiology, Cape Town, South Africa.
- 26) Eddins, D.A., Hayes, D., Ozmeral, E.J. (2018). "Benchmarking detection and classification in automatic hearing aids," International Hearing Aid Conference, Lake Tahoe, CA.
- 27) Eddins, D.A., Armstrong, S., Formby, C.J. (2018). "Novel hearing instrument and fitting protocol for treating hyperacusis," International Hearing Aid Conference, Lake Tahoe, CA.
- 28) 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 Conference, Lake Tahoe, CA.
- 29) Eddins, D.A. (2018). "A Programmatic Combination of Audiology, Speech, and Voice Research," Florida Association of Audiology, Orlando, FL.
- 30) Anand, S., Eddins, D.A., Shrivastav, R. (2018). "Perceptual and Quantitative Assessment of Vocal Roughness across Sustained Phonations and Connected Speech," Voice Foundation Symposium, Philadelphia, PA.
- 31) Gallun, F.J., Seitz, A., Eddins, D.A., Molis, M.R., Stavropoulos, T.A., Jakien, K.M., Kampel, S.D., Koerner, T.K., Diedesch, A.C., Hoover, E.C., Bell, K.L., Souza, P., Sherman, M., Calandruccio, L., Xue, G., Tarleb, N., Sebena, R., Srinivasan, N.K. (2018). "Portable Automated Rapid Testing (PART) Measures for Auditory Research," Meeting of the Acoustical Society of America, Minneapolis, MN.
- 32) Bell, K.L., Hoover, E.C., Eddins, D.A. (2018). "Simulated Amplification for Listeners with Normal Hearing Sensitivity," American Academy of Audiology, Nashville, TN.
- 33) Mahapatra, S., Eddins, D.A. (2018). "Beyond Air Conduction: Characterizing the Perception of Ultrasonic Hearing Through Bone Conduction," American Academy of Audiology, Nashville, TN.
- 34) 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.
- 35) Gallun, F.J., Seitz, A., Stavropoulos, T., Eddins, D.A., Hoover, E.C., Gordon, S., Molis, M.R., Jakien, K., Diedesch, A. (2017). "Development and validation of a portable platform for auditory testing," Acoustical Society of America Meeting, New Orleans, LA.
- 36) Eddins, D.A., Hoover, E.C., & Eddins, A.C. (2017). "Distribution of Spectral Modulation Transfer Functions in a Young, Normal-hearing Population," Acoustical Society of America Meeting, New Orleans, LA.
- 37) Brotherton, H., Eddins, A.C., Eddins, D.A. (2017). "Methods for determining the influence of age on central auditory plasticity and the putative relationship to homeostatic plasticity,"

- Aging & Speech Communication: An International and Interdisciplinary Conference, Tampa, FL
- 38) Eddins, A.C., Ozmeral, E.J., & Eddins, D.A. (2017). "Characterizing declines in spatial hearing with age using behavioral and neurophysiological measures," Aging & Speech Communication: An International and Interdisciplinary Conference, Tampa, FL
 - 39) Shapiro, M., Clavier, O., Eddins, D.A., Hoover, E. (2017). "Hear Well: A Mobile Application for Auditory Training and Tinnitus Management," NCRAR Tinnitus Conference, Portland, OR.
 - 40) Gallun, F.J., Gordon, S.Y., Stavropoulos, T., Seitz, A., Hoover, E.C., Eddins, D.E. (2017) "Evaluating the Apple iPad as a Platform for Psychoacoustic Research" Games for Change Festival, New York, NY
 - 41) Ozmeral, E.J., Eddins, D.A., & Eddins, A.C. (2017). "Age-related cortical changes in spatial auditory attention." Acoustical Society of America Meeting, Boston, MA.
 - 42) Eddins, D.A., Skowronski, M.D., Anand, S., & Shrivastav, R. (2017). "Acoustic Predictors and Bio-inspired Modeling of the Perceived Vocal Breathiness of Sustained Phonations and Continuous Speech," Voice Foundation Symposium, Philadelphia, PA.
 - 43) 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
 - 44) Eddins, D.A., & Shrivastav, R. (2017) "Psychoacoustic scales for voice quality: Development and Clinical Use." World Phonocon 2017, Delhi, India.
 - 45) Shrivastav, R., & Eddins, D.A. (2017) "Perceptual-Acoustic Voice Analysis." World Phonocon 2017, Delhi, India.
 - 46) Shrivastav, R., & Eddins, D.A. (2017) "Analysis of the entire speech signal." World Phonocon 2017, Delhi, India.
 - 47) Shrivastav, R., & Eddins, D.A. (2017) "Voice quality measures." World Phonocon 2017, Delhi, India.
 - 48) Ozmeral, E.J., Eddins, D.A., & Eddins, A.C. (2016). "Human electrophysiology of endogenous auditory spatial attention." Acoustical Society of America Meeting, Honolulu, HI.
 - 49) Eddins, D.A., Skowronski, M.D., Anand, S., & Shrivastav, R. (2016). "Psychometric measurement of vocal strain using a matching task with sustained vowel stimuli," 5th joint meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI.
 - 50) Shrivastav, R., Skowronski, M.D., Anand, S., & Eddins, D.A. (2016). "Measurement of vocal breathiness perception with a matching task for sustained phonation and running speech," 5th joint meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI.
 - 51) Kemp, A., Eddins, D.A., Shrivastav, R., and Hampton-Wray, A. (2016). Neural processes underlying listening effort," American Speech-Language Hearing Association, Philadelphia, PA.
 - 52) Eddins, D.A. (2016). "Waves of the future: Alternative automatic and remote audiologic service delivery," World Congress of Audiology, Vancouver, British Columbia, Canada.
 - 53) Hoover, E.C., Ozmerol, 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.
 - 54) Skowronski, M. D, Eddins, D. A., and Shrivastav, R. (2016). "Perceptual and acoustic measures of breathy and rough voice qualities for multiple sustained vowel categories," 45th Annual Symposium: Care of the Professional Voice, The Voice Foundation, Philadelphia, PA.
 - 55) Eddins, D. A., Skowronski, M. S., and Shrivastav, R. (2016). "Initial validation of formal psychoacoustic scales of vocal breathiness and roughness," 45th Annual Symposium: Care of the Professional Voice, The Voice Foundation, Philadelphia, PA.

- 56) Eddins, D.A., Skowronski, M.D., Shrivastav, R. (2016). "Initial Validation of Formal Psychoacoustic Scales of Vocal Breathiness and Roughness," Voice Foundation Symposium.
- 57) Skowronski, M.D., Eddins, D.A., Shrivastav, R. (2016). "Perceptual and Acoustic Measures of Breathy and Rough Voice Qualities for Multiple Sustained Vowel Categories," Voice Foundation Symposium.
- 58) Eddins, D.A., and Eddins, A.C. (2015). "Emerging therapeutics targeting deficits of presbycusis," Indiana Aging and Speech Conference.
- 59) Eddins, D.A., and Eddins, A.C. (2015). "Auditory Dysfunction and Remediation Associated with Everyday Listening of Older Adults," Canadian Academy of Audiology.
- 60) Eddins, D.A., Eddins, A.C. (2015). "Cortical dynamics during spectrotemporal processing as indexed by directed functional connectivity," J. Acoust. Soc. Am.
- 61) Eddins, D.A., Vera-Rodriguez, A., Skowronski, M.D., Shrivastav, R. (2015). "Behavioral and computational estimates of breathiness and roughness over a wide range of dysphonic severity," J. Acoust. Soc. Am.
- 62) Skowronski, M.D., Shrivastav, R., Eddins, D.A. (2015). "Acoustic models of co-varying vocal roughness and breathiness," J. Acoust. Soc. Am.
- 63) Ozmeral, E.J., Eddins, D.A., Eddins, A.C. (2015). "Age-related differences in auditory cortical representations of spatial cues," J. Acoust. Soc. Am.
- 64) Kemp, A., Shrivastav, R., Wray, A. H., Eddins, D.A. (2015) "Evaluating listening effort using event-related brain potentials," American Speech-Language-Hearing Association.
- 65) Eddins, D.A. (2015). "Auditory perception, psychophysics, and voice," Voice Foundation Symposium.
- 66) Shrivastav, R., Eddins, D. A. (2015). "Interaction of roughness and breathiness in the perception of dysphonic voices," Voice Foundation Symposium.
- 67) Ozmeral, E.J., Eddins, D.A., & Eddins, A.C. (2015). "Are age-related changes in ITD coding due to changes in the binaural opponent-channel mechanism associated with down-regulation of neural inhibition?" Association for Research in Otolaryngology Mid-Winter Meeting, Baltimore, MD.
- 68) Eddins, D.A., Vera-Rodriguez, A., Siburt, H., Shrivastav, R. (2015). "Understanding interactions between breathy and rough voice quality perception through measures of pitch strength," Association for Quantitative Laryngology, London, UK.
- 69) Eddins, D.A., Vera-Rodriguez, A., Siburt, H., Shrivastav, R. (2015). "Perception of pitch in dysphonic voices," Association for Quantitative Laryngology, London, UK.
- 70) Olger, M., Kopf, L., Eddins, D.A., Shrivastav, R. (2015). "Developing an Objective Measure of Breathiness," Michigan Speech-Language Hearing Association Annual Meeting.
- 71) Sheedy, A., Kopf, L., Eddins, D.A., Shrivastav, R. (2015). "Developing an Objective Measure of Roughness," Michigan Speech-Language Hearing Association Annual Meeting.
- 72) Eddins, D. A., Eddins, A.C. (2014). Changes in central auditory processing with age-related hearing loss, Journal of the Acoustical Society of America, 135. Invited Session.
- 73) Eddins, A.C., Ozmeral, E., Eddins, D.A, (2014). Age-related cortical asymmetry in binaural processing, Journal of the Acoustical Society of America, 135.
- 74) Eddins, D.A., Eddins, A.C. (2014). Presbycusis: Emerging solutions to old problems. American Speech Language Hearing Association.
- 75) Eddins, D. A., Shrivastav, R., Skowronski, M., Vera-Rodriguez, A. (2014). Using Pitch & Fundamental Frequency to Characterize Dysphonic Voices, American Speech-Language Hearing Association.
- 76) Kopf, L.M., Shrivastav, R., Eddins, D.A., Skowronski, M., Hunter., E. (2014). A Comparison of Voice Signal Typing & Pitch Strength, American Speech-Language Hearing Association.
- 77) Kopf, L.M., Shrivastav, R., Eddins, D.A., & Skowronski, M.D. (2014). Perception of breathiness in pediatric speakers. Poster presented at the Acoustical Society of America Fall 2014 Meeting, Indianapolis, IN.
- 78) Shrivastav, R., Eddins, D.A., & Kopf, L.M. (2014). What is a better descriptor of dysphonic

- voices- fundamental frequency or pitch? Fall Voice Conference, San Antonio, TX.
- 79) Eddins, A.C., Eddins, D.A. (2013). Age-Related Changes in Neural Processing of Binaural Temporal Cues in Normal Hearing and Hearing-Impaired Adults, Indiana Aging and Speech Communication: An International and Interdisciplinary Research Conference, Bloomington, Indiana.
 - 80) Zecker, S., Griffith, J., Wilson, R., Kraus, N., Wallhagen, M, Dubno, J, Dhar, S., Hoffman, H., Newman, C., Frisina, R., Eddins, D., Walton, J., Dziorny, A. (2013). "The NIH Toolbox Measures of Hearing: Normative Data," American Speech-Language-Hearing Association Annual Convention.
 - 81) Eddins, D.A., Shrivastav, R. (2013). "Psychoacoustics of dysphonic voice quality: Methods and Concepts," Pan-European Voice Conference, Prague, Czech Republic.
 - 82) Shrivastav, R., Eddins, D.A. (2013). "Psychoacoustics of dysphonic voice quality: Data and Modeling," Pan-European Voice Conference, Prague, Czech Republic.
 - 83) Kopf, L.M., Shrivastav, R., Eddins, D.A. (2013). "Isolating the effects of strain on voice quality," Pan-European Voice Conference, Prague, Czech Republic.
 - 84) Anand, S., Shrivastav, R., Eddins, D.A. (2013). "Predicting breathiness using estimates of pitch strength," Voice Foundation Symposium.
 - 85) Eddins, D.A., Arnold, M. L., Klein, A., and Ellison, J. (2013). "Acceptable Noise Level: Effect of presentation level and digital noise reduction," American Academy of Audiology.
 - 86) Eddins, A.C., Romershausen, B., Eddins, D.A. (2013). "Cortical evoked potential measures as biomarkers of binaural temporal processing in older adults," Association for Research in Otolaryngology.
 - 87) Kopf, L.M., Guimarães, M., El-Bashiti, N., Eddins, D.A., Shrivastav, R. (2012). "Acoustic Correlates of Strained Voices," American Speech-Language-Hearing Association Annual Convention.
 - 88) Shrivastav, R., Kopf, L., and Eddins, D.A. (2012). "Frequency of Amplitude Modulation and the Perception of Roughness in Vowels," Voice Foundation Symposium.
 - 89) Eddins, D.A., Walton, J.P., Dziorny, A. E., and Frisina, Robert D. (2012). "Comparison of pure tone thresholds obtained via automated audiometry and standard pure tone audiometry," Journal of the Acoustical Society of America. 131, 3517.
 - 90) Eddins, A.C., Kline, M., and Eddins, D.A. (2012). "Behavioral and electrophysiological measures of stimulus envelope and fine structure contributions to the binaural masking level difference," Journal of the Acoustical Society of America 131, 3517.
 - 91) Shrivastav, M., and Eddins, D.A. (2012). "The usefulness of the modified nonsense syllable test as a measure of speech identification," Journal of the Acoustical Society of America 131, 3311.
 - 92) Shrivastav, R., Kopf, L. and Eddins, D.A. (2012). "The influence of amplitude modulation depth on perceived roughness of vowels," Journal of the Acoustical Society of America 131, 3309.
 - 93) Shrivastav, M., and Eddins, D.A. (2011). "Reliability of the Abbreviated Nonsense Syllable Test," Indiana Aging and Speech Communication: An international and interdisciplinary approach, Bloomington, Indiana.
 - 94) Shrivastav, R., Eddins, D.A., Camacho, A., Anand, S. (2011). Pitch strength of breathy voices," Pan-European Voice Conference, Marseille, France.
 - 95) Eddins, D.A., Shrivastav, R., Cordova, T., Anand, S. (2011). "Psychometric Properties of a Matching Task for Quantifying Perception of Roughness," Voice Foundation Symposium.
 - 96) Eddins, D.A., Eddins, A. C., Frisina, D. R. (2011). "Age-related changes in the binaural temporal window?" Journal of the Acoustical Society of America 129 2488.
 - 97) Sabin, A.T., Eddins, D.A., Wright, B.A. (2011). "Spectro-temporal specificity of learning on modulation depth discrimination." Journal of the Acoustical Society of America 129 2488.
 - 98) Shrivastav, R., Eddins, D.A. (2011). "The influence of amplitude modulation frequency on perceived roughness of vowels," Journal of the Acoustical Society of America 129 2661.
 - 99) Eddins, D.A. (2010). "Auditory processing in older adults: How normal aging alters space

- and time”, American Speech-Language-Hearing Association Annual Convention.
- 100) Eddins, D.A., Bryan, M. F., and Hayes, D. (2010). “Improving speech perception in noise with smartFocus™ signal processing”, American Speech-Language-Hearing Association Annual Convention.
 - 101) Liu, C., Eddins, D.A. (2010). "Improvement of consonant identification in noise by spectro-temporal enhancement," *Journal of the Acoustical Society of America* 127, 1904.
 - 102) Eddins, D.A., Liu, C. (2010). "Psychometric properties of the coordinate response measure corpus with various types of background interference," *Journal of the Acoustical Society of America* 127, 2017.
 - 103) Sabin, A.T., Eddins, D.A., Wright, B.A. (2010). "The influence of practice on the discrimination of spectro-temporal modulation depth," *Journal of the Acoustical Society of America* 127, 1988.
 - 104) Eddins, D.A., Shrivastav, R. (2010). "Psychometric functions for rough voice quality," *Journal of the Acoustical Society of America* 127, 2021.
 - 105) Phillips, J., Wiese, S., Liu, C., and Eddins, D.A. (2010). “Spectral modulation transfer function and vowel identification,” *Journal of the Acoustical Society of America* 128, 2318.
 - 106) Eddins, D.A., Singh, S., Shrivastav, R. (2010). "Predictions of rough voice quality with a Temporal Modulation Filter Bank Model," *Voice Foundation Symposium*.
 - 107) Shrivastav, R., Eddins, D.A., Anand, S. (2010). "Pitch Strength of normal and dysphonic voices," *Voice Foundation Symposium*.
 - 108) Eddins, D.A., Leong, U., Hayes, D. (2010). "Impact of SmartFocus Control on Aided Speech Intelligibility in Background Competition," *Association for Research in Otolaryngology*.
 - 109) Eddins, D.A., Shrivastav, R., Singh, S. (2010). "Predictions of rough voice quality with a Temporal Modulation Filter Bank Model," *Voice Foundation Symposium*.
 - 110) Cummings, S., Shrivastav, R., Eddins, D.A. (2010). "Comparison of psychophysical methods for evaluation of rough voice quality," *Voice Foundation Symposium*.
 - 111) Sabin, A.T., Clark, C.A., Eddins, D.A., Dhar, S., and Wright, B.A. (2009). “Spectral modulation detection training in older adults with hearing loss,” *Journal of the Acoustical Society of America* 125 2633.
 - 112) Eddins, D.A., Shrivastav, R., Patel, S. M. (2009). “Does training improve consistency of roughness judgments in a matching task?” *Journal of the Acoustical Society of America* 125, 2569.
 - 113) Shrivastav, R., and Eddins, D.A. (2009). “A novel matching task for measurement of voice quality,” *Voice Foundation Symposium*.
 - 114) Eddins, D.A., and Liu, C. (2009). “Consonant identification in noise with and without spectro-temporal enhancement by normal hearing and hearing impaired listeners,” *Association for Research in Otolaryngology*. Abstr. 892.
 - 115) Sabin, A. T., Eddins, D.A., and Wright, B.A. (2009) “Spectral modulation detection training: Different outcomes for different trained stimuli,” *Journal of the Acoustical Society of America* 125 2526
 - 116) Shrivastav, R., Eddins, D.A., and Patel, S.M. (2009). “A Rough Task: Defining a measure for rough voice quality,” *Journal of the Acoustical Society of America* 124, 2495.
 - 117) Allen, P.D., and Eddins, D.A. (2009). “Cluster analysis reveals presbycusis phenotypes that group subjects by degree and configuration of hearing loss,” *Association for Research in Otolaryngology* Abstr. 140.
 - 118) Shrivastav, R., and Eddins, D.A. (2008). “A standard approach to measuring voice quality perception for research applications,” *Advances in Quantitative Laryngology Biannual Meeting*, Stockholm, Sweden.
 - 119) Eddins, D.A., and Liu, C. (2008). “Improvement of speech recognition thresholds by spectral modulation enhancement,” *Journal of the Acoustical Society of America* 123, 3326.
 - 120) Shrivastav, M., and Eddins, D.A. (2008). “Stimulus effects on spectral shape discrimination,” *Journal of the Acoustical Society of America* 123, 3866.

- 121) Shrivastav, R., Camacho, A., Patel, S., and Eddins, D.A. (2008). "Modeling perception of breathy voice quality in vowels using data obtained in an adaptive matching task," *Journal of the Acoustical Society of America* 123, 3881.
- 122) Eddins, D.A., Gordin, A., Brimijoin, W.O., Walton, J.P. (2008). "Far-field auditory evoked responses to amplitude modulated noise young and aged mice," *Association for Research in Otolaryngology Abstr.* 31.
- 123) Nutt, R.C., Frisina, D. R., Eddins, D.A. (2008). "A cross-sectional study of age-related changes in temporal gap detection," *Association for Research in Otolaryngology.*
- 124) Sabin, A.T., DePalma, C.L., Eddins, D.A., and Wright, B.A. (2008). "Training induced improvements in the ability to detect spectral modulation," *Association for Research in Otolaryngology.*
- 125) Shrivastav, M., and Eddins, D.A. (2008). "Spectral shape discrimination for various stimulus paradigms," *Association for Research in Otolaryngology.*
- 126) Libby, P., Koplitz, M., Mapes, F., Frisina, S., Eddins, D.A., Frisina, R., Newman, D. (2008). "Connexin Gene Variants are Not Common Causes of Presbycusis in European Americans," *Association for Research in Otolaryngology.*
- 127) Cummings, S., Patel, S., Eddins, D.A., and Shrivastav, R. (2008). "Refining a reference for perceptual measurement of breathy voice quality," *Voice Foundation Symposium.*
- 128) Shrivastav, R., Eddins, D.A., and Patel, S., (2007). "Developing a reference for perceptual measurement of breathy voice quality," *Voice Foundation Symposium.*
- 129) Hayes, D., Eddins, D.A. (2007) "Evaluation of Transient Impulse Control Using the antiShock™ Algorithm," *American Academy of Audiology.*
- 130) Hayes, D., Eddins, D.A. (2007). "Benefits Derived from Level Dependent Speech Enhancement," *American Academy of Audiology.*
- 131) Newman, D.L., Ramon, S., Braganza, A., Sanchez, R., Frisina, S.T., Mapes, F., Parody, R., Frisina, D.R., Eddins, D.A., Osier, M.V., Frisina, R.D. (2007). "Evidence for a mitochondrially inherited factor in human presbycusis," *Association for Research in Otolaryngology Abstr.* 30.
- 132) Eddins, D.A., Hayes, D. (2007). "Evaluation of the antiShock Algorithm for Impulse Correction of Transient Signals by the Unitron Element Hearing Aid," *Association for Research in Otolaryngology Abstr.* 30.
- 133) Guimaraes, P., Eddins, D.A., Frisina, D.R. (2007). "Hearing In Noise Test – HINT and Aging," *Association for Research in Otolaryngology Abstr.* 30.
- 134) Marietta, C., Nutt, R.C., Frisina, D.R., Eddins, D.A. (2007). "The Effects of Age on the Spatial Release from Informational and Energetic Masking," *Association for Research in Otolaryngology Abstr.* 30.
- 135) Nutt, R.C., Marietta, C., Frisina, D.R., Eddins, D.A. (2007). "Effect of Age on Tolerance of Background Noise as Characterized by Acceptable Noise Level and the Speech-Spatial-Quality Scale," *Association for Research in Otolaryngology Abstr.* 30.
- 136) Ramon, S., Braganza, A. C., Mapes, F. M., Frisina, S. T., Frisina, R. D., Frisina, D. R., Eddins, D.A., Newman, D. L. (2006). "European mitochondrial haplogroups exhibit differential risk of developing presbycusis," *American Society for Human Genetics.*
- 137) Eddins, D.A., Carlson, C.E. (2006) "Static and dynamic spectro-temporal gap detection," *Journal of the Acoustical Society of America* 119, 3234.
- 138) Eddins, D.A., Liu, C. (2006). "Detection of vowels in long-term speech-shaped noise," *Journal of the Acoustical Society of America* 119, 3338.
- 139) Liu, C., Eddins, D.A. (2006). "Enhancement of spectral modulation frequency in acoustics and identification of vowels," *Journal of the Acoustical Society of America* 119, 3338.
- 140) Patel, S., Shrivastav, R., and Eddins, D.A. (2006). "Perceptual judgments of breathy voice quality using rating scale, magnitude estimation, and matching tasks," *Journal of the Acoustical Society of America*, 119, 3340.
- 141) Frisina, R.D., Eddins, D.A., Mapes, F.M., and Guimaraes, P. (2006). "Spatial-temporal

- processing as a function of age and hearing loss," Association for Research in Otolaryngology Abstr. 29:328.
- 142) Eddins, D.A., Frisina, D.R., Mapes, F.M., Guimaraes, P. (2006). "Spectral envelope perception as a function of age and degree of hearing loss," Association for Research in Otolaryngology Abstr. 29:328.
- 143) Eddins, D.A., Frisina, R.D., Mapes, F.M., and Guimaraes, P. (2006). "Spectral modulation detection as a function of age and degree of hearing loss," Association for Research in Otolaryngology.
- 144) Qian, J., and Eddins, D.A. (2006). "Virtual sound localization using head related transfer functions modified in the spectral modulation frequency domain," Association for Research in Otolaryngology.
- 145) Newman, D.L., Raish, K.D., Edsall, L.E., Wiltkowski, C.M., Eddins, D.A., Frisina, D.R., Shipman, P.A., and Osier, M.V. (2005). "Cluster rank analysis provides evidence for mitochondrial inheritance of presbycusis," American Society of Human Genetics.
- 146) Allen, P.D., Eddins, D.A., Ison, J.R., and Walton, J.P. (2005). "The psychophysics and physiology of across channel spatial gap detection in aged humans and mice," Aging and Speech Communication: An international and interdisciplinary approach, Bloomington, Indiana.
- 147) Schroeder, K., McFadden, S.D., and Eddins, D.A. (2005). "The Effect of Hypothyroidism on Hearing Loss Susceptibility," American Academy of Audiology.
- 148) Frisina, D.R., Eddins, D.A., and Marietta, C. (2005). "Measures of auditory perception as a function of age and hearing sensitivity," Association for Research in Otolaryngology.
- 149) Saoji, A., and Eddins, D.A. (2005). "Spectral enhancement revealed by sinusoidal spectral modulation masking period patterns," Association for Research in Otolaryngology.
- 150) Qian, Jinyu, and Eddins, D.A. (2005). "Virtual sound localization using PCA-modified, non-individualized head related transfer functions," Association for Research in Otolaryngology.
- 151) Liu, C., and Eddins, D.A. (2004). "Spatial Frequency Modulation in Vowel Identification," Journal of the Acoustical Society of America 115, 2631.
- 152) Saoji, A., and Eddins, D.A. (2004). "Sinusoidal Spectral Modulation Masking Period Patterns," Journal of the Acoustical Society of America 115, 2603.
- 153) Secor, C.A., Hayes, D.E., and Eddins, D.A. (2004) "Acoustic Feedback Management and Telephone Use," American Academy of Audiology.
- 154) Qian, Jinyu, and Eddins, D.A. (2004). "Principal Component Analyses of Ear Differences in Head Related Transfer Functions," Association for Research in Otolaryngology. Saoji, A., and
- 155) Eddins, D.A. (2004). "Phase Sensitivity as a Test of Spectral Modulation Frequency Channels," Association for Research in Otolaryngology.
- 156) Lobarinas, E., Sun, W., Eddins, D.A., and Salvi, R. (2003). "Effects of carboplatin-induced inner hair cell loss on chinchilla behavioral measures of hearing," Association for Research in Otolaryngology.
- 157) Eddins, D.A., and Eddins, A.C. (2002). "Psychophysical and Physiological Measures of Spectro-Temporal Processing in Humans," Journal of the Acoustical Society of America 112, 2286. [Invited Presentation]
- 158) Eddins, A.C., and Eddins, D.A. (2002). "Physiological Measures of auditory temporal integration in the chinchillas and humans," Journal of the Acoustical Society of America 112, 2286. [Invited Presentation]
- 159) Eddins, A.C., and Eddins, D.A. (2002). "Psychophysical & Physiological Measures of Spectro-temporal Processing," American Speech-Language-Hearing Association. [Invited Presentation]
- 160) Eddins, D.A., and Harwell, R. (2002). "Spatial frequency channels in audition?" Association for Research in Otolaryngology.
- 161) Saoji, A. A., and Eddins, D.A. (2002). "Monaural and binaural spectral modulation

- detection interference," Association for Research in Otolaryngology.
- 162) Lobarinas, E., Sun, W., Eddins, D.A., Ding, D., and Salvi, R. (2002). "Carboplatin-induced hair cell loss: effects of on threshold, threshold in noise, gap detection, and tuning," Association for Research in Otolaryngology.
- 163) Eddins, D.A. (2001). "Temporal resolution in hearing impaired listeners," Annual Convention of the American Speech-Language-Hearing Association, [Invited Presentation]
- 164) Eddins, D.A., and Harwell, R. (2001). "Spectral modulation transfer functions as a function of stimulus duration and level," *Journal of the Acoustical Society of America* 109, 2465.
- 165) Eddins, A.C., Eddins, D.A., Coad, M.L., and Lockwood, A.H. (2001). "Cognitive and sensory influence on the perception of complex auditory signals," *Journal of the Acoustical Society of America* 109, 2309-2310.
- 166) Saoji, A., and Eddins, D.A. (2001). "Masking patterns for simple spectral stimuli," *Journal of the Acoustical Society of America* 109, 2465-2466.
- 167) Kidd, G. R., Watson, C. S., Lowther, A., and Eddins, D.A. (2001). "Backward-masking and syllable-rate thresholds have only minor associations with reading achievement, compared to several cognitive and linguistic measures," *Journal of the Acoustical Society of America* 109, 2441.
- 168) Eddins, D.A., Hoolihan, P. S., and Bero, E. M. (2001). "Just noticeable differences in spectral envelope frequency," Association for Research in Otolaryngology.
- 169) Bero, E. M., and Eddins, D.A. (2001). "Auditory perception characterized by spectral modulation transfer functions," *American Academy of Audiology*.
- 170) Bero, E. M., and Eddins, D.A. (2001). "Spectral envelope perception: auditory transfer functions for sinusoidal spectral ripple," Association for Research in Otolaryngology.
- 171) Kee, R.L., Eddins, D.A., and Burkard, R.F. (2001). "Perceptual and physiological manifestations of ultrasonic bone conduction: preliminary observations," Association for Research in Otolaryngology.
- 172) Kewley-Port, D., Eddins, D. A., and Kehle, P. (2000). "Integrating Math, Physics, Speech, Hearing, Computers, & Fun: Multimedia Courseware," Annual convention of the American Speech-Language-Hearing Association, Washington, DC.
- 173) Eddins, D. A., Kewley-Port, D., Kehle, P. (2000). "Interactive Courseware: Integrating Math and Speech & Hearing," *American Academy of Audiology*.
- 174) Watson, C. S., Kidd, G. R., Eddins, D. A. (2000) "The relation between backward masking and measures of reading, language, and other cognitive abilities in fourth grade children," *J Journal of the Acoustical Society of America* 108, 2641.
- 175) Eddins, D. A., Kehle, P., and Kewley-Port, D. (2000). "Interactive Courseware Integrating Math and Speech & Hearing," *American Academy of Audiology*.
- 176) Eddins, D. A., Watson, C. S., Kidd, G. R., and Rainey, B. B. (2000). "Multi-disciplinary predictors of academic failure," *American Academy of Audiology*.
- 177) Watson, C.S., Eddins, D.A., and Kidd, G. R. (1999). "The relations between auditory problems and cognitive, linguistic, and intellectual measures in first grade children," *Journal of the Acoustical Society of America* 106, 2267.
- 178) Godar, S., and Eddins, D. A. (1999). "Gap detection: Frequency effects and stimulus artifacts," *American Academy of Audiology*.
- 179) Eddins, D. A. (1999). "Spectral integration of auditory temporal information," *Journal of the Acoustical Society of America* 105, 1153.
- 180) Watson, C. S., Eddins, D. A., Kidd, G. (1999). "The Indiana Test of Auditory Memory and Processing Rate (ITAMPR)," *Journal of the Acoustical Society of America* 105, 1236.
- 181) Eddins, D. A. (1998). "Estimates of temporal resolution at low and high spectral frequencies," *Journal the Acoustical Society of America*, 103, 2842.
- 182) Horner, D.G., Swartz, T. S., Rainey, B. B, Lowther, A, Goss, D. A., Eddins, D.A. (1998). "Multi-disciplinary predictors of school performance," Association American for Research in Vision and Opthamology.

- 183) Swartz Schroeder, T., Rainey, B. B, Horner, D.G., Lowther, A, Goss, D. A., Eddins, D.A. (1998). "The combined incidence of hearing and vision problems in a first grade population," Association American for Research in Vision and Opthamology.
- 184) Eddins, A.C., Stout, J.C., Eddins, D.A., and Watson, C.S. (1997). Auditory discrimination: A comparison of behavioral estimates and cortical activation measured by positron emission tomography (PET). Society for Neuroscience, 23:1033.
- 185) Eddins, D.A. (1997). "Modified Masking Period Patterns as a function of frequency region and bandwidth," Journal the Acoustical Society of America, 101, 3148.
- 186) Rainey, B. B, Schroeder, T. L., Lowther, A, Horner, D.G., Goss, D. A., Eddins, D.A. (1997). "Multidisciplinary predictors of academic failure," American Public Health Association, Indianapolis, IN.
- 187) Eddins, D.A. (1996). "Temporal cues in monaural and binaural detection and discrimination," Journal of the Acoustical Society of America, 99, 2471. Paper presented at the 131st meeting of the Acoustical Society of America in a special session entitled "Psychoacoustics and David M. Green." [Invited Presentation]
- 188) Eddins, D.A., and Eddins, A.C. (1996). "Electrophysiological and behavioral measurements of spectrotemporal processing: Comodulation masking release," Journal of the Acoustical Society of America, 100, 2629.
- 189) Horner, D.G., Rainey, B. B, Lowther, A, Schroeder, T. L., Goss, D. A., Eddins, D.A. (1995). "Multidisciplinary predictors of academic failure: The Benton Assessment Project," American Academy of Optometry
- 190) Eddins, D.A. (1994). "Temporal and spectral processing in increment detection," Journal of the Acoustical Society of America, 95, 2963.
- 191) Eddins, D.A., and Wright, B.A. (1993). "Across-frequency temporal processing: Comodulation masking release (CMR) for amplitude modulated noise," Journal of the Acoustical Society of America, 93, 2326.
- 192) Eddins, D.A. (1991). "Amplitude-modulation detection for bandlimited noise stimuli," Journal of the Acoustical Society of America, 90, 2248.
- 193) Eddins, D.A. (1989). "Temporal gap detection: Effects of stimulus frequency and absolute bandwidth," American Speech-Language-Hearing Association, 31, 69.
- 194) Preece, J.P., Eddins, D.A., and Wilson, R.H. (1989). "Homophasic and antiphase masking as a function of signal bandwidth and frequency region," Journal of the Acoustical Society of America, Suppl. 86, S98.

Software and Book Reviews

- Eddins, D. A. (2014). "A review of Metz, D. (2015): Sandlin's Textbook of Hearing Aid Amplification" International Journal of Audiology.
- Eddins, D. A. (2014). "A review of Dillon, H. (2013): Hearing Aids, 2nd Edition" Ear and Hearing.
- Eddins, D. A. (1997). "SigGen (v. 1.3) and PsychoSig (v. 1.3)" Ear and Hearing 18, 5, 434.

Invited Presentations

- 1) Eddins, D.A. (2020). "The Effects of Masker Bandwidth and Marker-To-Masker Ratio on Temporal Gap Detection," Northwestern University, Evanston, IL.
- 2) Eddins, D.A. (2020). "Production and perception of Voice: An Overview," Voice Foundation Symposium, Philadelphia, PA.
- 3) Eddins, D.A. (2019). "Successful Research Grant Writing in Communication Sciences & Disorders: Advice from the Experts," ASHA Convention, Orlando, FL.
- 4) Eddins, D.A., Eddins, A.C. (2019). "Consideration of Central Auditory Plasticity in the Treatment of Tinnitus and Hyperacusis," ASHA Convention, Orlando, FL.
- 5) Eddins, D.A. (2019). "Going Green? Overview of the linear-systems extension of auditory profile analysis using maximum-density carriers," Knowles Hearing Center Symposium: Contemporary Hearing Science Inspired by David M. Green.

- 6) Eddins, D.A. (2019). "A Novel Treatment for Hyperacusis," American Academy of Audiology, Columbus, OH.
- 7) Eddins, D.A. (2018). "Novel hearing instrument and fitting protocol for treating hyperacusis," Northwestern University, Evanston, IL.
- 8) Eddins, D.A. (2018). "A modern version of old-school CSD: Blending hearing, speech, and voice research," University of Texas-Austin.
- 9) Eddins, D.A. (2018). "Production and perception of Voice: An Overview," Voice Foundation Symposium, Philadelphia, PA.
- 10) Eddins, D.A. (2017). "Efficient measures of temporal fine structure processing," Northwestern University, Evanston, IL.
- 11) Eddins, D.A. (2016). "Waves of the future: Automated and remote audiology service delivery," World Congress of Audiology, Vancouver, British Columbia, Canada.
- 12) Eddins, D.A. (2016). "A novel approach to behavioral assessment in dynamic acoustic environments," Northwestern University, Evanston, IL.
- 13) Eddins, D.A., and Eddins, A.C. (2015). "Emerging therapeutics targeting deficits of presbycusis," Indiana Aging and Speech Conference.
- 14) Eddins, D.A., and Eddins, A.C. (2015). "Auditory Dysfunction and Remediation Associated with Everyday Listening of Older Adults," Canadian Academy of Audiology.
- 15) Eddins, D. A. (2015). "Learning about pitch strength, pitch height, and vocal breathiness," Northwestern University, Evanston, IL.
- 16) Eddins, D. A. (2015). "Auditory perception, psychophysics, and voice," Voice Foundation Symposium.
- 17) Eddins, D. A., Eddins, A.C. (2014). Changes in central auditory processing with age-related hearing loss, *Journal of the Acoustical Society of America*, 135. Invited Session.
- 18) Eddins, D.A., Eddins, A.C. (2014). Presbycusis: Emerging solutions to old problems. American Speech Language Hearing Association. Invited Session.
- 19) Eddins, D. A. (August, 2014). "Toward standard measurement scales for voice quality," Northwestern University, Evanston, IL.
- 20) Eddins, D. A. (November, 2013). "Individual Variability in the Unaided and Aided Acceptable Noise Level Test." *Audiology Online*.
- 21) Eddins, D. A. (October, 2013). "Advances in Hearing Enhancement Technology." Michigan State University, East Lansing, MI.
- 22) Eddins, D. A. (August, 2013). "Investigating voice quality from an auditory perspective: Measurement and modeling," Northwestern University, Evanston, IL.
- 23) Eddins, D. A. (August, 2012). "Acceptance of background noise and digital noise reduction," Northwestern University, Evanston, IL.
- 24) Eddins, D. A. (August, 2011). "Pitch strength of normal and dysphonic voices," Northwestern University, Evanston, IL.
- 25) Eddins, D. A. (January, 2011). "Innovative technology to improve speech perception in noise," Seminar, Chemical and Biomedical Engineering, University of South Florida.
- 26) Eddins, D. A. (October, 2010). "Auditory processing in older adults: How normal aging alters space and time", Invited Session, American Speech-Language-Hearing Association Annual Convention.
- 27) Eddins, D. A. (October, 2010). "Innovative technology to improve speech perception in noise," Keynote Address, Florida Chapter, Acoustical Society of America.
- 28) Eddins, D. A. (July, 2009). "A standard approach to measuring voice quality perception," Northwestern University, Evanston, IL.
- 29) Eddins, D. A. (August, 2008). "Spectro-temporal enhancement of speech," Northwestern University, Evanston, IL.
- 30) Eddins, D. A. (August, 2006). "Improved speech perception via manipulation in the spectral modulation domain," Northwestern University, Evanston, IL.
- 31) Eddins, D. A. (May, 2006). "Recent advances in hearing technology," Rochester Area Tipsters.

- 32) Eddins, D. A. (**December, 2005**). "Digital hearing aids: Current state-of-the-art," University of Rochester, ENT Grand Rounds.
- 33) Eddins, D. A. (**November, 2005**). "Auditory processing: Spectral enhancement and speech intelligibility," Conference on New Advances in Diagnostic and Treatment Options for Hearing Loss, Dubai, United Arab Emirates.
- 34) Eddins, D. A. (**September, 2005**). "Auditory pattern recognition: From lab to clinical practice," Advanced Bionics Corporation.
- 35) Eddins, D. A. (**August, 2005**). "Aging and auditory temporal, spectral, and spatial processing: A work in progress..." Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 36) Eddins, D. A. (**June, 2005**) "Acoustic feedback management and telephone use," University of Rochester ENT Forum.
- 37) Eddins, D.A. (**February, 2005**). "Auditory pattern recognition: From laboratory to clinical practice," G. Paul Moore Symposium. Department of Communication Sciences and Disorders, University of Florida, Gainesville, FL.
- 38) Eddins, D.A. (**August, 2004**). "Sinusoidal Spectral Modulation Masking Period Patterns," Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 39) Eddins, D.A. (**July, 2003**). "Phase sensitivity and spectral envelope perception," Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 40) Eddins, D.A. (**August, 2002**). "SykofizX: Software for conducting psychophysical research," Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 41) Eddins, D.A. (**October, 2001**). "Auditory Processing in Special Populations," 19th Annual Van Riper Lecture Series "Central Auditory Processing and Language Disorders," Western Michigan University.
- 42) Eddins, D.A. (**July, 2001**). "On the Existence of Spatial Frequency Channels in Audition," Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 43) Eddins, D.A. (**August, 2000**). "Spectro-temporal processing in Audition," Department of Otolaryngology, University of Rochester, Rochester, NY.
- 44) Eddins, D.A. (**August, 2000**). "Spectral Modulation Transfer Functions," Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 45) Eddins, D.A. (**April, 2000**). "Auditory spectro-temporal processing: A linear systems approach," Cognitive Sciences Program, University at Buffalo.
- 46) Eddins, D.A. (**July, 1999**). "A novel test battery for evaluating basic auditory perception," Annual Meeting of the Young Hearing Scientists of the Midwest, Evanston, IL.
- 47) Eddins, D.A. (**August, 1998**). "Spectral integration and temporal processing," Annual Meeting of the Young Hearing Scientists of the Midwest, West Lafayette, IN.
- 48) Eddins, D.A., Eddins, A. C. (**July, 1998**). "Behavioral and Physiological estimates of temporal processing", Center for Hearing and Deafness, SUNY-Buffalo, Buffalo, NY.
- 49) Eddins, D.A. (**July, 1997**). "Estimates of Auditory Temporal Acuity and Across-Frequency Temporal Processing," First Annual Meeting of the Young Hearing Scientists of the Midwest, Bloomington, IN.
- 50) Eddins, D.A. (**March, 1997**). "Effects of Spectral Frequency on Auditory Temporal Processing," Department of Speech and Hearing Sciences, Indiana University, Bloomington, IN.
- 51) Eddins, D.A. (**1996**). "Temporal cues in monaural and binaural detection and discrimination," Journal of the Acoustical Society of America, 99, 2471. Invited paper presented at the 131st meeting of the Acoustical Society of America in a special session entitled "Psychoacoustics and David M. Green."
- 52) Eddins, D.A. (**1993, November**). "The contribution of envelope fluctuations to across-channel processes in masking." Department of Electrical Engineering, Johns Hopkins University.

- 53) Eddins, D.A. (**1993, March**). "Across-frequency temporal processing: Comodulation masking release (CMR) for amplitude modulated noise." Cognitive and Sensory Seminar, Department of Psychology, University of Florida.
- 54) Eddins, D.A. (**1990, April**). "Auditory temporal resolution as a function of frequency region and bandwidth." Cognitive and Sensory Seminar, Department of Psychology, University of Florida.
- 55) Eddins, D.A. (**1990, April**). "The detection of temporal gaps as a function of frequency region and absolute noise bandwidth." Department of Psychology, University of Florida. March, 1989.

Theses

- Eddins, D.A. (**1993**). Auditory temporal acuity and across-frequency temporal processing. Doctoral dissertation, University of Florida, Gainesville Florida.
- Eddins, D.A. (**1988**). Gap detection as a function of signal bandwidth in normal-hearing and cochlear hearing impaired listeners. Master's thesis, University of North Carolina, Chapel Hill, North Carolina.

PROFESSIONAL LICENSURE

- Licensed Audiologist, New York State (2005-2010)
Licensed Hearing Aid Dispenser, New York State (2005-2010)
Certificate of Clinical Competence in Audiology (1990 – Present)
North Carolina "A" Level Teacher Certification (1988)

PROFESSIONAL MEMBERSHIPS

- American Association for the Advancement of Science
American Institute for Medical and Biological Engineering
Acoustical Society of America
American Academy of Audiology, Fellow
American Auditory Society
American Speech-Language-Hearing Association
Association for Research in Otolaryngology
Voice Foundation

COURSES TAUGHT AND OTHER TEACHING ACTIVITIES

- SPA 6340: Principles of Amplification I (University of South Florida)
SPA 7910: Introduction to MATLAB (University of South Florida)
SPA 7910: Advanced Methods in Hearing Research (University of South Florida)
CDS 282: Applied Physics of Sound (University at Buffalo)
CDS 290: Audiology: Diagnostics and Management (University at Buffalo)
CDS 502: Research Methods (University at Buffalo)
CDS 551: Diagnostic Audiology 1 (University at Buffalo)
CDS 557: Advanced Hearing Aids (University at Buffalo)
CDS 692: Auditory & Visual Systems Analysis (University at Buffalo)
CDS 692: Auditory Perception & Cochlear Hearing Loss (University at Buffalo)
CDS 600: Auditory Perception (University at Buffalo)
SPHS S110: Introduction to Communication Disorders (Indiana University)
SPHS S115: Mysteries, Puzzles, and Controversies in Hearing (Indiana University)
SPHS S311: Historical and Philosophical Foundations of Speech and Hearing (Indiana University)
SPHS S319: Mathematical Foundation of Speech and Hearing Sciences (Indiana University)
SPHS S474: Introduction to Audiological Testing (Indiana University)
SPHS S678: Introduction to Psychoacoustics (Indiana University)
SPHS S674: Psychoacoustics and Special Populations (Indiana University)

SPHS S674: A Linear Systems Approach to Sensory Processing (Indiana University)
Clinical Research Supervision: University at Buffalo Speech-Language-Hearing Clinic
Clinical Research Supervision: University at Buffalo Psychoacoustics Laboratory
Clinical Research Supervision: University at Buffalo Clinical Hearing Research Center
Clinical Research Supervision: Indiana University Speech-Language-Hearing Clinic
Clinical Research Supervision: Indiana University Psychoacoustics Laboratory
Clinical Research Supervision: Indianapolis Eye Care Center
Clinical Research Supervision: Benton County Community School Corporation
Clinical Research Supervision: University of Rochester Medical Center Department of Audiology
Independent Study: Various Topics

STUDENTS SUPERVISED

- 1) Laura E. Barber, M.A., IU Speech & Hearing Sciences
- 2) Eva M. Bero, M.A., UB Communicative Disorders & Sciences
- 3) Shelly Godar, M.A., IU Speech & Hearing Sciences
- 4) Ross Harwell, Ph.D., UB Communicative Disorders & Sciences
- 5) Renee Kee, B.A., UB Communicative Disorders & Sciences
- 6) Nathan Michelach, B.A., UB Communicative Disorders & Sciences
- 7) Mini Narendran, Ph.D., IU Speech & Hearing Sciences
- 8) Mohammed El Badry, Ph.D., UB Communicative Disorders & Sciences
- 9) Jinyu Qian, Ph.D., UB Communicative Disorders & Sciences
- 10) Aniket Saoji, Ph.D., UB Communicative Disorders & Sciences
- 11) Kristen Schroeder, Au.D., UB Communicative Disorders & Sciences
- 12) Melissa Tvette, Au.D., UB Communicative Disorders & Sciences
- 13) Christy Monczynski, Au.D., UB Communicative Disorders & Sciences
- 14) Leanne Cleveland, Au.D., UB Communicative Disorders & Sciences
- 15) Jacki Smith, Au.D., UB Communicative Disorders & Sciences
- 16) Christina Babian, Au.D., UB Communicative Disorders & Sciences
- 17) Carrie Secor, Ph.D., UB Communicative Disorders & Sciences
- 18) Ariana Duke, Au.D., UB Communicative Disorders & Sciences
- 19) Ross Cushing, Au.D., UB Communicative Disorders & Sciences
- 20) Margaret Hartner, Au.D., UB Communicative Disorders & Sciences
- 21) Jill Bernstein, Au.D., UB Communicative Disorders & Sciences
- 22) Kelly Roma, Au.D., UB Communicative Disorders & Sciences
- 23) Jennifer Dytche, Au.D., UB Communicative Disorders & Sciences
- 24) Christina Carlson, Au.D., UB Communicative Disorders & Sciences
- 25) Krishna Sarbadhikari, Au.D., UB Communicative Disorders & Sciences
- 26) Tracy Peck, Au.D., UB Communicative Disorders & Sciences
- 27) Madhu Malar, M.S., RIT, Bio-Informatics
- 28) Sona Patel, Ph.D., Universit of Florida, Communicative Disorders
- 29) Stacie Cummings, M.A., Universit of Florida, Communicative Disorders
- 30) Arturo Camacho, Ph.D., Universit of Florida, Electrical Engineering
- 31) Andrew Sabin, Ph.D., Northwestern, Communicative Sciences & Disorders
- 32) Caleb Sparkman, Au.D., USF Communication Sciences & Disorders
- 33) Shannon Morris, Au.D., USF Communication Sciences & Disorders
- 34) Supraja Anand, Ph.D., MSU Communicative Sciences & Disorders
- 35) Lisa Kopf, Ph.D., MSU Communicative Sciences & Disorders
- 36) Caleb Williams, B.A., UF Communicative Sciences & Disorders
- 37) Tony Cordova, B.A., UF Communicative Sciences & Disorders
- 38) Alexandra Klein, Au.D., USF Communication Sciences & Disorders
- 39) Makenzie Kline, Au.D., USF Communication Sciences & Disorders
- 40) Stacy O'Brien, Au.D., USF Communication Sciences & Disorders
- 41) Brendan McAteer, Au.D., USF Communication Sciences & Disorders

- 42) Brooke Worthington, Au.D., USF Communication Sciences & Disorders
- 43) Nada Hanna, Au.D., USF Communication Sciences & Disorders
- 44) Bryce Romenshauser, Au.D., USF Communication Sciences & Disorders
- 45) Makenzie Kline, Au.D., USF Communication Sciences & Disorders
- 46) Lisa Gascay, Au.D., USF Communication Sciences & Disorders
- 47) Amanda Cooley, Au.D., USF Communication Sciences & Disorders
- 48) Alexandra Klein, Au.D., USF Communication Sciences & Disorders
- 49) Molly England, Au.D., USF Communication Sciences & Disorders
- 50) Shelley West, Au.D., USF Communication Sciences & Disorders
- 51) Anusha Mohan, Ph.D., USF Chemical & Biomedical Engineering
- 52) Victoria Williams, AuD, Ph.D., USF Communication Sciences & Disorders
- 53) Arianna Vera-Rodriguez, B.S., USF Communication Sciences & Disorders
- 54) Craig Spandau, Au.D., USF Communication Sciences & Disorders
- 55) Pablo Galicia Almanza, Au.D., USF Communication Sciences & Disorders
- 56) Matthew Seldine, Au.D., USF Communication Sciences & Disorders
- 57) Thrilok Chakravarthy Chinna Narayana Swamy, M.S., USF Electrical Engineering
- 58) Kelsey Harris, Au.D., USF Communication Sciences & Disorders
- 59) Carolyn Brennan, Au.D., USF Communication Sciences & Disorders
- 60) Luke Wassermann, Au.D., USF Communication Sciences & Disorders
- 61) Alyssa McElroy, M.S., SLP, USF Communication Sciences & Disorders
- 62) Stefnie Glazer, Au.D., USF Communication Sciences & Disorders
- 63) Sarah Oleson, B.A., USF Communication Sciences & Disorders
- 64) Peter Hutchison, Au.D., USF Communication Sciences & Disorders
- 65) Scott Padilla, Ph.D., USF Mechanical Engineering
- 66) Stephanie Watts, Ph.D., USF Communication Sciences & Disorders
- 67) Amy Kemp, M.S., MSU Communicative Sciences & Disorders
- 68) Spruha Mahapatra, Au.D., USF Communication Sciences & Disorders
- 69) Amy Kemp, M.S., MSU Communication Sciences & Disorders
- 70) Karen Bell, Ph.D., USF Communication Sciences & Disorders
- 71) Patricia Gabbidon, Au.D., USF Communication Sciences & Disorders
- 72) Christina Mars, B.A., USF Communication Sciences & Disorders
- 73) Brianna Kinney, Au.D., USF Communication Sciences & Disorders
- 74) Chelsea Montgomery, Au.D., USF Communication Sciences & Disorders
- 75) Lauren Fessler, Au.D., USF Communication Sciences & Disorders
- 76) Jessica Salvani, Au.D., USF Communication Sciences & Disorders
- 77) Taylor Traficant, Au.D., USF Communication Sciences & Disorders
- 78) Zachary Moore, Au.D., USF Communication Sciences & Disorders
- 79) Mitch Aquilina, Ph.D., USF Communication Sciences & Disorders
- 80) Jennifer Aranda-Cordero, Ph.D., USF Communication Sciences & Disorders
- 81) Sittiprapa Isarangura, Ph.D., USF Communication Sciences & Disorders
- 82) Jitpakorn Pichaitanaporn, Ph.D., USF Communication Sciences & Disorders
- 83) Kate Wadlinger, Ph.D., USF Communication Sciences & Disorders
- 84) Angkana Lertpoompunya, Ph.D., USF Communication Sciences & Disorders
- 85) Melanie Hoglievina, Au.D., USF Communication Sciences & Disorders
- 86) Madison Dyjac, Au.D., USF Communication Sciences & Disorders
- 87) Katherine Palandrani, Au.D., USF Communication Sciences & Disorders
- 88) Mckenna Dyjac, B.A., USF Communication Sciences & Disorders
- 89) John Bush-Sheets, Au.D., USF Communication Sciences & Disorders
- 90) LeAnn Wills, Au.D., USF Communication Sciences & Disorders
- 91) Danial Pupo, Ph.D., USF, School of Aging Studies
- 92) Casey Curren, Au.D., USF Communication Sciences & Disorders
- 93) Kathrine Parnham, Au.D., USF Communication Sciences & Disorders
- 94) Kathryn McAllister, Au.D., USF Communication Sciences & Disorders

RESIDENT/POST-DOCTORAL ASSOCIATES SUPERVISED

- 1) Chang Liu, UB, Communicative Disorders and Sciences
- 2) Itzel Orduna, UB Communicative Disorders and Sciences
- 3) Patricia Guimaraes, UR, Otolaryngology
- 4) Robert C. Nutt, UR, RIT, NTID
- 5) U-Cheng Leong, UR, Otolaryngology
- 6) Chandler Marietta, UR, Otolaryngology
- 7) Owen Brimijoin, UR, Otolaryngology
- 8) Erol J. Ozmeral, USF Communication Sciences & Disorders
- 9) Eric C. Hoover, USF Communication Sciences & Disorders
- 10) Hannah Brotherton, USF Communication Sciences & Disorders
- 11) Paul Reinhart, USF Communication Sciences & Disorders
- 12) Anusha Yellamsetty, USF Communication Sciences & Disorders

SERVICE

Professional/Public Service

- Guest Editor, Ear and Hearing, 2019
- Guest Editor, Associate Editor for Special Issues, Journal of Speech, Language, Hearing Science (2019 – present)
- Associate Editor for Special Issues, Journal of Speech, Language, Hearing Science (2018 – 2019)
- Member, Perception & Physiology Technical Committee, Acoustical Society of America (2019-2022)
- President, Acoustical Society of America, Florida Chapter (2015 – present)
- Ad-hoc member, NIH CDRC Review Panel (2015 – 2018)
- Ad-hoc Reviewer, NIH NIDCD, NIH NIGMS.
- Editorial Consultant:
 - Journal of the Acoustical Society of America
 - International Journal of Audiology
 - Neurobiology of Aging
 - Hearing Research
 - Journal of Speech and Hearing Research
 - Journal of Auditory Research
 - Ear and Hearing
 - Academic Press
 - Delmar-Thomson Learning
 - Oxford University Press
 - American Journal of Audiology
 - PLOS One
- Board of Advisors, Hearing Loss Association of America (HLAA), Rochester, NY Chapter (2009/2010)
- Member, Research and Scientific Affairs Committee, American Speech-Language-Hearing Association. (2005 - 2008)
- Guest Editor, Journal of Speech-Language-Hearing Research (2001-2002)
- Member, Technical Committee in Hearing Science, American Speech-Language-Hearing Association (1997-1999, 2001)
- Member, Technical Committee, Perception and Physiology, Acoustical Society of America (1997-2000, 2003-present)
- Session Chair, “Gamma Band Auditory Evoked Potential (GBP) in Normal Subjects,” ASHA Convention (October, 1995).

- Session Chair, “Effects of OME on the Development of Basic Auditory Perception,” ASHA Convention (October, 1995).
- Session Chair, “Psychological and Physiological Acoustics: Psychological and Physiological Acoustics Posters,” Third joint meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI (October, 1996)
- Judge, 1997 Intel International Science and Engineering Fair, Louisville, Ky. Represented the Acoustical Society of America.

University Service

UB

- Member, University at Buffalo Faculty Senate (2000 – 2005)
- Member, UB CASET Node Advisory Group
- Member, UB Academic Freedom Committee
- Member, UB ETC Advisory Board
- Au.D. Academic Advisor UB
- Faculty Advisor UB, Student Association for Speech and Hearing (SASH)
- UB CDS Department Information Director
- Thesis Committees
 - Eva Bero
 - Aniket Saoji
 - Ross Harwell
 - Mohamed El-Badry
 - Edward Lobarinas
 - U-Cheng Leong
 - Jinyu Qian
 - Christina Babian
 - Jacki Smith
 - Kristen Schroeder
 - Leanne Cleveland
 - Jennifer Dytche
 - Christina Carlson
 - Margaret Hartner

IU

- Undergraduate Advisor (1994-1997)
- Member, Undergraduate Team, Department of Speech & Hearing Science (1997-1999)
- Coordinator, GradPact Program
- Coordinated development of Undergraduate Assessment Examination
- Member, Teaching Evaluation Committee, Designed department student teaching evaluation form
- Comprehensive Examination Reader
- Gateway Examination Examiner
- Directed WWW Development project for NSSLHA
- Thesis Committees
 - S. Godar, Chair, Department of Speech and Hearing Sciences
 - L. Chang, Department of Speech and Hearing Sciences
 - W. Drennan, Department of Speech and Hearing Sciences
 - R. Shrivastav, Department of Speech and Hearing Sciences
 - K. Moran, Department of Speech and Hearing Sciences
 - T. Cosgrove, Department of Speech and Hearing Sciences
 - B. Nelson, Department of Biology

UR

- Always Better, Fall, 2006, University of Rochester

USF

- CSD Professor & Chair Search Committee (Chair)
- Research Strategic Planning Committee
- CBCS Research Faculty Tenure & Promotion Committee
- Faculty Senate
- Academic Advising
- Doctoral Committee
- CBCS Dean Search Committee
- CBCS Associate Dean for Research Search Committee
- CSD Faculty Search Committees
- Audiology Program Committee
- CSD Web Developer
- Audiology Admissions Committee
- Audiology Equipment Committee
- Chair, Department Chair Search Committee
- Associate Director, Global Center for Hearing & Speech Research
- Director, Auditory & Speech Sciences Laboratory

Community Service

- Instructor, USF Osher Lifelong Learning Institute, "Hearing Technology and Aging", Fall, 2019.
- Instructor, USF Osher Lifelong Learning Institute, "Hearing Technology and Aging", Summer, 2019.
- Board of Directors, Hearing Loss Association of America, Rochester, NY Chapter.
- Board of Directors, Hearing Loss Association of America, Rochester, NY Chapter.
- Audiology Clinic Supervisor, Hearing Screening Program at UB Wellness Day (March, 2003)
- Audiology Clinic Supervisor, On-Track Hearing Screening Program sponsored by Monroe County, Indiana.
- Audiology Clinic Supervisor, Hearing Screening Program sponsored by Edgewood Early Childhood Center
- Audiology Clinic Supervisor, Hearing Screening Program sponsored by Indiana University NSSLHA.