

CURRICULUM VITAE

Ann Clock Eddins

Professor and Director

School of Communication Sciences and Disorders

University of Central Florida

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EDUCATION

2010 M.B.A. Health Sciences Management focus; University of Rochester, Simon Business School

2007 M.S. Business Administration: Medical Management; University of Rochester, Simon Business School

1992-94 PostDoc Neuroscience, University of Florida

1992 Ph.D. Auditory Neurophysiology, State University of New York at Buffalo

1989 M.A. Audiology, University of California at Santa Barbara

1983 B.S. Communicative Disorders, Northwestern University

CERTIFICATION

Certificate of Clinical Competence in Audiology (American Speech-Language-Hearing Association (1992-present))

ACADEMIC POSITIONS

Professor and Director, Aug 2022, School of Communication Sciences & Disorders, University of Central Florida, Orlando, FL.

Professor, 2020 – Aug 2022. Department of Communication Sciences & Disorders, University of South Florida, Tampa, FL.

Associate Chair, Aug 2018 – Aug 2021

Associate Chair, Clinic Business Development & Operations Manager, Aug 2011 – Jul 2017

Adjunct Professor, Nov 2020 - present. Mahidol University, Faculty of Medicine, Department of Communication Disorders, Bangkok, Thailand

Associate Professor, 2010 – 2020. Department of Communication Sciences & Disorders, University of South Florida, Tampa, FL.

Visiting Professor, July-Aug 2016; May-July 2012. Mahidol University, Faculty of Medicine, Department of Communication Disorders, Bangkok, Thailand

Director of Audiology/Sr. Audiologist, 2005 – 2010. Departments of Audiology & Otolaryngology, Univ. of Rochester Medical Center, Strong Memorial Hospital, Rochester, NY.

Associate Professor, 2001 – 2005, **Co-Director of Audiology** 2002-2005, Department of Communicative Disorders & Sciences, University at Buffalo, Amherst, NY

Assistant Professor, 1999 – 2001, Department of Communicative Disorders & Sciences, University at Buffalo, Amherst, NY

Assistant Professor, 1994 – 1999, Department of Speech and Hearing Sciences and Program in Neural Science, Indiana University, Bloomington, IN

NIH Postdoctoral Fellow, 1992-1994, Department of Neuroscience, University of Florida School of Medicine, Gainesville, FL

Research Assistant and Teaching Assistant, 1989 – 1992, Hearing Research Laboratory, Department of Communicative Disorders and Sciences, University at Buffalo, Amherst, NY

Teaching Assistant, 1988 – 1989, Speech and Hearing Sciences Department, University of California at Santa Barbara, Santa Barbara, CA

PROFESSIONAL LEADERSHIP SERVICE POSITIONS

Past President, Council of Academic Programs in Communication Sciences & Disorders, 2020-2021

President, Council of Academic Programs in Communication Sciences & Disorders, 2019-2020

President Elect, Council of Academic Programs in Communication Sciences & Disorders, 2018-2019

External Academic Program Consultant, 2017 - present

Chair, Grant Review Panel, Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2021

Editor, American Journal of Audiology, 2016-2020

Vice President for Academic Development, Council of Academic Programs in Communication Sciences & Disorders, 2016-2018

ASHA Academic Affairs Board, Liaison for the Council of Academic Programs in Communication Sciences & Disorders Board, 2016-2018

Chair, Education Committee, American Academy of Audiology, 2013-2016

OTHER PROFESSIONAL EXPERIENCE

Independent Consultant, 2007 – present

Academic Program Review, Clinical Operations and Financial Management, Strategic Planning

Consultant, 2007-2013, Maximus Federal Services - National Independent Review entity providing external reviews of Medicare managed care denials

Audiologist, 1992 – 1994, Cochlear Corporation Clinical Fellow, Department of Communicative Disorders, University of Florida, Gainesville, FL

Audiologist, 1990, Niagara Rehabilitation Centre, St. Catharines, Ontario, Canada

Audiology Extern, 1988, Veterans Administration Medical Center, Long Beach, California.

Controller, 1986-1987, The Shema Group and Truex Associates, San Francisco, California - Executive recruiting firm.

Manager of Client Services, 1985-1986, The Michael Thomas Corporation, Santa Clara, California - Small business development consulting firm.

Accounting Staff, 1984-1985, Hewlett Packard Company, Personal Computer Division, Sunnyvale, California

Assistant to the Director, 1983-1984, Deaf Self-Help, San Francisco, California - Non-profit job placement service for deaf adults.

Accounting Staff, 1980-1983, Student Publishing Company, Northwestern University, Evanston, Illinois - Publisher of the daily newspaper and yearbook.

ACADEMIC HONORS AND AWARDS

Fellow, American Speech-Language-Hearing Association, 2021.

USF Faculty International Travel Award – Plenary Speaker, Indian Speech & Hearing Association, Bangalore, India, February 2019.

Faculty Early Career Development (CAREER) Award, National Science Foundation, 1997.

Teaching Excellence Recognition Award - Innovative use of technology in the classroom. Indiana University, 1997.

Amos Nordman Foundation Merit Scholarship. January 1988 - June 1992.

Muskegon County Community Foundation Merit Scholarship. September 1989-June 1991.

Northwestern University School of Speech Dean's Advisory Council. 1982 - 1983.

Delta Zeta Scholarship, Outstanding Audiology Student, Northwestern University. 1982.

GRANTS - CURRENT

NIH/NIDCD R01- DC001262: Individual Differences Listening in Noise in Clinically Normal-hearing Adults (07/01/19 – 06/30/24). Total Award: \$2.9 M. PI: Robert Lutfi, Ph.D. **Role: Co-Investigator.**

NIH/NIA P01-AG09524: Aging Auditory System: Presbycusis & Its Neural Bases (03/15/16-03/14/23 - NCE) Total Award: \$9 M. PI: Robert D. Frisina, Ph.D., **Role: Co-Investigator**

NIH/NIGMS 1R21GM137209-01: Noninvasive optical monitoring of tissue with Frequency Domain Diffuse Correlation Spectroscopy (05/01/20 – 04/30/23 -NCE). Total Award: \$369,000. PI: Ashwin Parthasarathy, Ph.D., **Role: Co-Investigator.**

GRANTS – PENDING

NIH/NIDCD 1R01DC020830-01: Effects of age and hearing loss on acoustic feature-specific weights and dynamic cortical circuits (12/01/22-11/30/27). **Role: PI.** Ann Clock Eddins, Ph.D. Submitted Feb 7, 2022, scored.

NIH/NIDCD 1R01DC020288-01: Impacts of presbycusis and interventions on communicative and cognitive function (04/01/22-03/31/27). MPI: David A. Eddins, Ph.D., **Role: MPI.** Submitted July 05, 2022.

GRANTS – COMPLETED OR APPLIED BUT NOT FUNDED

NIH/NIA R01-AG055426: Aging and Cognitive Health Evaluation in Elders (ACHIEVE) Randomized Trial (07/01/17 - 06/30/22). MPIs: Frank Lin, M.D., Ph.D., Josef Coresh, Ph.D., **Role: Co-Investigator.** Completed.

University of Miami Clinical & Translational Sciences Institute Pilot Program Award: Effects of age on the neural basis of hearing in noise (09/01/20 – 08/31/21). PI: Andrew Dykstra, Ph.D. (UMiami) and **Role: Consultant.** Ann Clock Eddins, Ph.D. (USF).

NIH/NIDCD R44 DC016249: Individualized Signal Processing Strategy to enhance hearing healthcare: Phase II (04/15/16 – 03/31/20) PI Subaward: David A. Eddins, Ph.D. **Role: Co-Investigator.** Completed.

NSF/ACI 1541407: CC*DNI Networking Infrastructure: Campus Research Network - High Bandwidth Private Network Path for Research Data from Experiment to Analysis and Back Again at USF. (01/01/16 – 06/30/19). Total Award: \$495,645. PI: Timothy Fawcett, Ph.D., **Role: Co-PI.** Completed

Gerber Foundation: Oral Iron Supplementation and Gut Microbiome in Preterm Infants. PI: Thao Ho, MD., **Role: Co-Investigator.** Concept paper submitted May 15, 2019. Not selected.

McKnight Memory & Cognitive Disorders Award: Examining the effects of age on central auditory processing associated with release from informational masking. **Role: M-PI.** Andrew Dykstra, Ph.D. (UMiami) and Ann Clock Eddins, Ph.D. (USF). Letter of Intent submitted March 25, 2019. Not selected.

Oticon, Inc. (Industry): Laboratory Comparison of a Premium Hearing Aid and High-end PSAPS (04/01/17 – 01/31/18) PI: David A. Eddins, Ph.D. **Role: Co-Investigator.** Completed.

NIH/NIDCD F32: Evaluating predictions of cochlear synaptopathy for temporal processing using behavioral decision weights. (04/01/18 – 03/31/20). PI: Alison Tan, Ph.D., **Role: Co-Sponsor.** Submitted 2017, not funded.

NIH/NIDCD K99/R00: Pattern Classification of Biological and Environmental Signals to Support the Signal Processing and Decision Making Required for Brain-guided Hearing Instruments. (07/01/17 – 06/30/22). PI: Erol Ozmeral, Ph.D., **Role: Co-Mentor.** Submitted 2017, not funded.

NIH/NIDCD F32: Hearing aid acclimitization in the context of augmented acoustic environments. (04/01/17 – 03/31/20). PI: Peter Hutschison, Au.D., **Role: Co-Sponsor.** Submitted 2016, not funded.

NIH/NIDCD F32 DC013724: Behavioral and Cortical Signatures of Reduced Auditory Spatial Tuning with Age. (12/16/13 – 12/15/16). Total Award: \$148,500. PI: Erol Ozmeral, Ph.D., **Role: Co-Sponsor.** Completed.

NIH/NIA R34-AG046548: Planning a trial of hearing rehabilitative treatment to reduce cognitive decline. (09/1/14-08/31/16). Total Award: \$715,000. PI: Frank Lin, MD., Ph.D., **Role: Co-Investigator.** Completed.

NIH/NIA P01-AG09524: Aging Auditory System: Presbycusis & Its Neural Bases (09/15/10-2/29/16) Total Award: \$4.5 M. PI: Robert D. Frisina, Ph.D., **Role: Co-Investigator.** Completed.

USF College of Behavioral & Community Sciences, Internal Research Grant: Neural Signatures of Age-related changes in Auditory Spectro-temporal Processing (05/01/2012 – 04/30/2013). Total Award: \$7500. **Role: PI.** Completed.

Starkey Foundation: Effect of Auditory Training on Auditory Processing, Cognition and Quality of Life. (05/2011 – 05/2012). Total Award: \$7600. PI: Jennifer Lister, Ph.D., **Role: Co-PI.** Completed.

URMC Clinical Center Research Award: Iron status and auditory neural myelination in premature infants. (2008-2010). PI: Sanjiv Amin, MD. **Role: Co-PI.** Completed.

URMC Clinical Center Research Award: Hypothyroxinemia of prematurity and auditory neural myelination. (2008-2010). PI: Sanjiv Amin, **Role: Co-PI.** Completed.

NIH/NIDCD K23: Bilirubin-induced auditory neuropathy in preterms. (2004-2009) PI: Sanjiv Amin, MD. **Role: Co-Mentor.** Completed.

NSF Minority Post-doctoral Fellowship: Neural correlates of complex auditory learning. (2004-2006). Total Award: \$82,000. PI: Itzel Orduña, **Role: Mentor.** Completed.

National Organization for Hearing Research (NOHR): Physiological correlates of auditory nerve myelinopathy and progressive cochlear pathology in carboplatin-treated chinchillas (2004-2005). Total Award: \$15,000. **Role: PI,** Co-PI: Sandra L. McFadden. Completed.

NIH/NIDCD R01: Physiological Effects of Auditory Myelinopathy (2004-2007). Total Request: \$1,399,244. **Role: PI,** Co-PI: Sandra L. McFadden. Not funded.

NIH/NIDCD Exploratory/Developmental Research R21: Auditory Nerve Demyelination in Auditory Neuropathy (2003-2005). Total Request: \$313,000. **Role: PI,** Co-PI: Sandra L. McFadden. Scored but not funded.

American Academy of Audiology: Effects of Hearing Loss on Temporal Coding in the Cochlear Nucleus (2002-2003). Total Award: \$2,500. **Faculty sponsor** for U-Cheng Leong. Completed.

NSF CAREER Award: Neural Correlates of Auditory Temporal Integration. (1997-2003). Total Award: \$375,490. **Role: PI.** Completed.

William G. McGowan Charitable Fund, Inc. To establish the Clinical Hearing Research Center (CHRC) of Western New York. Total Award: \$100,000. PI: Richard J. Salvi, **Role: Co-PI.** Completed.

James H. Cummings Foundation: The Functional Anatomy of Complex Auditory Perception (1999-2001). Total Award: \$41,400. PI: Alan Lockwood, **Role: Co-PI.** Completed.

Physiological Imaging Research Center, Indiana University School of Medicine: Functional localization of auditory perception for speech and non-speech sounds (1996-98). Total Award: \$17,500. **Role: PI.** Completed.

Undergraduate Research Partnership, Indiana University: Auditory Physiologic Measures of Emotion Recognition (1996). Total Award: \$1,500. **Role: Sponsor** for Kevin Caudill. Completed.

NIH/NIDCD Individual National Research Service Award: Temporal Coding of Sound Location in the Auditory Cortex. (1993-1995). Total Award: \$51,300, Awarded 1993-94: \$22,700. **Role: PI.** Completed.

Mark Diamond Research Grant, University at Buffalo: Neural Mechanisms of Auditory Temporal Integration in the Cochlear Nucleus. (1991-1992). Total Award: \$1,100. **Role: PI.** Completed.

BOOK CHAPTERS

- Salvi, R.J. Eddins, A.C., and Wang, J. (2020). Cochlear Physiology II: Mostly Electrophysiology. In F. Musiek and J. Baran (Eds.), *The Auditory System: Anatomy, Physiology, and Clinical Correlates*, 2nd Edition (Chapt 6, pp. 133-177). San Diego: Plural Publishing.
- Eddins, A.C. (2010). Hearing Screening. In S. Tanski, L.C. Garfunkel, P.M. Duncan, and M. Weitzman, (Eds.), *Performing Preventive Services, A Bright Futures Handbook* (pp. 129-136). American Academy of Pediatrics.
- Salvi, R.J. Eddins, A.C., and Wang, J. (2007). Cochlear Physiology II: Mostly Electrophysiology. In F. Musiek and J. Baran (Eds.), *The Auditory System: Anatomy, Physiology, and Clinical Correlates* (pp. 112-149). San Diego: Plural Publishing.
- Salvi, R.J., Ding, D., Eddins, A.C., McFadden, S.L. and Henderson, D. (2000). Age, noise and ototoxic agents. In: P. Hof and C. Mobbs (Eds.), *Functional Neurobiology of Aging* (pp. 549-563). San Diego: Academic Press.
- Salvi, R.J., Henderson, D., and Eddins, A.C. (1995). Effects of noise exposure on the auditory system. In L. W. Chang and R. S. Dyer (Eds.), *Handbook of Neurotoxicology* (pp. 907-961). New York: Marcel Dekker, Inc.
- Boettcher, F. A., Eddins, A.C. and Salvi, R. J. (1994) Neural mechanisms of sensorineural hearing loss. (pp. 515-531). *Current Topics in Acoustical Research*.
- Henderson, D., Salvi, R.J., Boettcher, F.A., and Clock, A.E. (1994). Neurophysiological correlates of sensorineural hearing loss. In J. Katz (Ed.), *Handbook of Clinical Audiology (Fourth Ed.)* (pp. 37-55). Baltimore: Williams & Wilkins.
- Salvi, R.J., Powers, N.L., Saunders, S.S., Boettcher, F.A., and Clock, A.E. (1992). Enhancement of evoked response amplitude and single unit activity after noise exposure. In A.L. Dancer, D. Henderson, R.J. Salvi, & R.P. Hamernik (Eds.), *Noise-Induced Hearing Loss* (pp. 156-171). St. Louis: Mosby-Year Book, Inc.

PEER-REVIEWED MANUSCRIPTS AND PUBLISHED REPORTS

- Eddins, A.C., Ozmeral, E.J., & Eddins, D.A. (2023). Aging alters cross-hemisphere cortical dynamics during binaural temporal processing. *Front. Neurosci.* 16:1060172. doi: 10.3389/fnins.2022.1060172
- Hutchison, P., Maeda, H., Formby, C., Small, B. J., Eddins, D. A., & Eddins, A. C. (2023). Acoustic deprivation modulates central gain in human auditory brainstem and cortex. *Hearing Research*, 428, 108683. <https://doi.org/10.1016/j.heares.2022.108683>
- Moka, S., Safi, A.M., Mohammad, P.P.S., Eddins, A., Parthasarathy, A.B. (2022). Frequency domain diffuse correlation spectroscopy: a new method for simultaneous estimation of static and dynamic tissue optical properties. *Multiscale Imaging and Spectroscopy III*. <https://doi.org/10.1117/12.2610115>.
- Lertpoompunya, A., Ozmeral, E. J., Higgins, N. C., Eddins, A. C., & Eddins, D. A. (2022). Large group differences in binaural sensitivity are represented in preattentive responses from auditory cortex. *Journal of Neurophysiology*, 127(3), 660–672. <https://doi.org/10.1152/jn.00360.2021>
- Mohammad, P.P.S., Isarangura, S., Eddins, A., Parthasarathy, A.B. (2021). Comparison of functional activation responses from the auditory cortex derived using frequency domain and continuous wave near-infrared spectroscopy. *Neurophoton.* 8(4), 045004 (2021), doi: 10.1117/1.NPh.8.4.045004.
- Ozmeral, E.J., Eddins, D.A., Eddins, A.C. (2021). Selective auditory attention modulates cortical responses to sound-location change in younger and older adults. *Journal of Neurophysiology*, 21 JUL 2021, doi:10.1152/jn.00609.2020
- Sanchez, V.A., Arnold, M.L., Reed, N.S., Oree, P. Matthews, C., Eddins, A.C., Lin, F.R., Chisolm, T.H. (2020), The Hearing Intervention for the Aging and Cognitive Health Evaluation in Elders Randomized Control Trial: Manualization & Feasibility Study. *Ear and Hearing*, 41:1333-1348. doi: 10.1097/AUD.0000000000000858.
- 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, and Hearing Research*, 62:3876-3896, doi:10.1044/2019_JSLHR-H-18-0449
- Ozmeral, E.J., Eddins, D.A., Eddins, A.C. (2019). Electrophysiological responses to lateral shifts are not consistent with opponent-channel processing of interaural level differences. *Journal of Neurophysiology*, 122:737-748, doi:10.1152/jn.00090.2019.
- 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:10.1016/j.heares.2018.05.001. NIHMS 965979
- 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*. 61: 2376-2385. doi:10.1044/2018_JSLHR-H-18-0056
- 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):306-309. doi:10.1121/1.5020787: PMID: 29390785
- 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.

- Deal, J.A., Albert, M.S., Arnold, M., Bangidwala, S., Chisolm, T., Davis, S., Eddins, A., Glynn, N.W., Minotti, M., Mosely, T., Rebok, G., Reed, N., Rodgers, E., Sanchez, V., Sharrett, A. R., Coresh, J., Lin, F. R. (2017). A randomized feasibility pilot trial of hearing treatment for reducing cognitive decline: Results from the Aging and Cognitive Health Evaluation in Elders Pilot Study. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*. 2017 Jun 21;3(3):410-415. doi: 10.1016/j.trci.2017.06.003. eCollection 2017 Sep. PubMed PMID: 29067347; PubMed Central PMCID: PMC5651440.
- 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. Epub 2016 Sep 28, PMID: 27683889
- Ozmeral, E.J., Eddins, A.C., Frisina Sr., 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. doi: 10.1016/j.neurobiolaging.2015.12.024. Epub 2016 Apr 4: PMID: 27255816.
- Eddins, A.C. (2014). Electrophysiological markers of aging in the auditory system. *Perspectives in Hearing & Hearing Disorders: Research Diagnostics.*, 18(2):44-52, doi:10.1044/hhd18.2.44.
- Douglas, N. F., Hinckley, J. J., Haley, W.E., Andel, R., Chisolm, T. H., Eddins, A. C. (2014). Perceptions of Speech-Language Pathologists Linked to Evidence-Based Practice Use in Skilled Nursing Facilities. *American Journal of Speech-Language Pathology*, 23(4):612-24. doi:10.1044/2014_AJSLP-13-0139. PMID:24989317.
- Orduna, I., Liu, E. H., Church, B. A., Eddins, A. C., Mercado, E., 3rd. (2012). Evoked-potential changes following discrimination learning involving complex sounds. *Clinical Neurophysiology*, 123(4), 711-719. doi: S1388-2457(11)00614-6 [pii] 10.1016/j.clinph.2011.08.019: PMID: 21958655, PMCID:PMC3277806.
- Amin, S.B., Orlando, M., Eddins, A., MacDonald, M., Monczynski, C., Wang, H. (2010). In utero Iron Status and Auditory Neural Maturation in Premature Infants as Evaluated by Auditory Brainstem Response, *Journal of Pediatrics*, 156(3):377-81. doi: 10.1016/j.jpeds.2009.09.049. Epub 2009 Nov 25: PMID: 19939407, PMCID:PMC2827634.
- El-Badry, M., Ding, D., McFadden, S.L., Eddins, A.C. (2007) Physiological effects auditory nerve myelinopathy in Chinchillas. *European Journal of Neuroscience*, 25(5): 1437-1446. PMID: 17425569.
- Eddins, A.C., Peterson, J.R. (1999). Time-intensity trading in the late evoked potential. *Journal of Speech, Language and Hearing Research*, 42(3):516-525. PMID: 10391619
- Eddins, A.C., Zuskov, M., Salvi, R.J. (1999). Changes in distortion-product otoacoustic emissions during prolonged noise exposure. *Hearing Research*, 127:119-128. PMID: 9925023.
- Clock Eddins, A., Salvi, R.J., Wang, J., Powers. N.L. (1998). Threshold-duration functions of chinchilla auditory nerve fibers. *Hearing Research*, 119:135-141. Doi:10.1016/S0378-5955(98)00035-5: PMID: 9641326.
- Eddins, A.C., Salvi, R.J., Wang, J., Powers. N.L. (1998). Threshold-duration functions of chinchilla auditory nerve fibers [Letter to the editor]. *Hearing Research*, 124:190. PMID: 9822916.

- Middlebrooks, J.C., Xu, L., Eddins, A.C., Green, D.M. (1998). Codes for sound-source location in nontonotopic auditory cortex. *Journal of Neurophysiology*, 80:863-881. PMID: 9705474.
- Eddins, A.C. (1998). Spectro-temporal influence on auditory cortical evoked-potential thresholds. *Proceedings of the 16th International Congress on Acoustics*, Vol II, 879-880.
- Middlebrooks, J.C., Xu, L., Eddins, A.C., Green, D.M. (1995). Decoding spike patterns in the auditory cortex. In M. Burrows, T., Matheson, P.L. Newland, and H. Schuppe (Eds.), *Nervous Systems and Behavior, Proceedings of the 4th International Congress on Neuroethology*. Cambridge, England: Thieme Medical Publishers, pp 108.
- Middlebrooks, J.C., Clock, A.E., Xu, L., Green, D.M. (1994). A panoramic code for sound location by cortical neurons. *Science*, 264:842-844. PMID: 8171339.
- Clock, A.E., Salvi, R.J., Saunders S.S., Powers. N.L. (1993). Neural correlates of temporal integration in the cochlear nucleus of the chinchilla. *Hearing Research*, 71:37-50. PMID: 8113144.

PUBLISHED ABSTRACTS

- Bochat, S. L., Higgins, N. C., Goodman, S. S., Eddins, D. A., & Eddins, A. C. (2022). Middle-ear muscle reflex: Sensitivity and reliability of thresholds and amplitude-intensity functions in normal-hearing adults across measurement systems. *The Journal of the Acoustical Society of America*, 152(4), A197-A197.
- Nielsen, D., Eddins, A.C. (2022). Embracing transformation leadership opportunities in communication sciences and disorders. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), Portland, OR.
- Moka, S., Eddins, A.C., Parthasarathy, A. (2021). Frequency domain diffuse correlation spectroscopy: a new method for simultaneous estimation of static and dynamic tissue optical properties. *International Society for Optics and Photonics: Multiscale Imaging and Spectroscopy III*.
- Eddins, A.C., Isarangura, S., Lutfi, R.A. (2021). Hemispheric lateralization during spectral envelope perception is dynamic and individualized. *J. Acoust Soc Am* 150(4):A145, doi:10.1121/10.0007925
- Isarangura, S., Eddins, A., Seitz, A.R., Gallun, F., Eddins, D. (2021). Effects of modulator shape at thresholds and supra-thresholds spectral modulation perception. *J. Acoust Soc Am* 150(4):A143, doi:10.1121/10.0007917
- Isarangura, S., Eddins, D.A., Ozmeral, E.J., Lutfi, R., Eddins, A.C. (2020). Neural encoding and perceptual decision weights associated with attention to different acoustic spectral features. *J. Acoust Soc Am* 148, 2462, doi:10.1121/1.5146800
- 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. *J. Acoust Soc Am* 148, 2468, doi:10.1121/1.5146825
- Eddins, A.C., Nielsen, D. (2020) Reshaping and refreshing academic audiology: Dynamics of Change. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), New Orleans, LA. *Meeting canceled due to COVID-19*.
- Eddins, A.C., Eddins, D.A. (2019). Consideration of central auditory plasticity in the treatment of tinnitus and hyperacusis. American Speech Language Hearing Association, Orlando, FL.

- Hutchison, P., Eddins, A.C., Silvani, J., Eddins, D.A. (2019). Indexing central auditory plasticity following short term unilateral earplug use. American Speech Language Hearing Association, Orlando, FL.
- Hutchison, P., Maeda, H., Eddins, D.A., Eddins, A.C. (2019). Short-term Acoustic Deprivation and Enhancement lead to Central Gain Modulation in the Brainstem and Cortex. Aging & Speech Communication Conference, Clearwater Beach, FL.
- Pichaitanaporn, J., Traficant, T., Eddins, D.A., Eddins, A.C. (2019). The association between auditory function and serum aldosterone levels in older age. Aging & Speech Communication Conference, Clearwater Beach, FL.
- Isarangura, S., Eddins, A.C., Gallun, F., Eddins, D.A. (2019). Analysis of different methods and parameters for generating spectro-temporal modulation: a comparison of behavioral thresholds and model predictions. Contemporary Hearing Science Inspired by David M. Green, Knowles Hearing Center, Northwestern University, Evanston, IL.
- Eddins, A.C., Hutchison, P., Maeda, H., Eddins, D.A. (2019). Central gain modulation in the brainstem and cortex following short-term auditory deprivation or enhancement. International Hearing Loss Conference, Niagara-on-the-Lake, Ontario, Canada.
- Eddins, A.C., Nielsen, D.W. (2019). Creative Approaches to Growing Audiology Programs: Why and How to Expand. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), San Diego, CA.
- Ozmeral, E.J., Palandrani, K., Eddins, D.A., Eddins, A.C. (2019). Cortical effects on spatial tuning to speech in background babble. *J. Acoust. Soc. Am.* 145, 1663, doi:10.1121/1.5101105
- Isarangura, S., Eddins, A.C., Ozmeral, E.J., Eddins, D.A. (2019). The effects of duration and level on spectral modulation perception. Association for Research In Otolaryngology, Baltimore, MD.
- Eddins, A.C. (2019). Aging and the auditory system: Neural changes, perceptual consequences and emerging approaches to evaluation and remediation. Indian Speech Hearing Association Conference, Bangalore, India.
- Eddins, A.C., Maeda, H., Silvani, J., Eddins, D.A. (2018). Effects of short-term monaural deprivation on auditory plasticity in the cortex. 34th World Congress of Audiology, Cape Town, South Africa.
- Eddins, A.C., Nielsen, D.W. (2018). Constructive Responses to Pressures to Grow Your Audiology University Clinic. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), Austin, TX.
- Higdon, C., Eddins, A.C. (2018). How to Infuse IPP/IPE Into Your Clinical and Academic Curriculum. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), Austin, TX.
- Hall, J.W., Hunter, L., Eddins, A., DiSarno, N., Balachandran, R., Whitelaw, G., Siburt, H., Nelson, N., Swanson, T., Zapala, D., DeBacker, J.R., Sawher, H. (2018). Third Annual Clinical Education Forum: Readyng Students for Clinical Practice. American Academy of Audiology, Nashville, TN.
- Pichaitanaporn, J., Hajicek, J.J., Henin, S., Long, G.R., Lee, J., Eddins, A.C. (2018). Comparison and validation of a new swept-tone DPOAE system to two commercial systems. American Academy of Audiology, Nashville, TN.

- Hajicek, J.J., Henin, S., Pichaitanaporn, J., Long, G.R., Lee, J., Eddins, A.C. (2018). Validation of Frequency-Swept-Tone DPOAE with current Clinical DPOAE Systems. American Auditory Society, Scottsdale, AZ.
- Eddins, D.A., Hoover, E., Eddins, A.C. (2017). Distribution of spectral modulation transfer functions in a young, normal-hearing population. *J Acoust. Soc. Am.* 142(4):2676.
- 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 Conference, Tampa, FL.
- 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
- Eddins, A.C., Sanchez, V.A. (2017). Emerging Interventions for Age-Related Hearing Loss. ASHA Audiology 2017: Cutting-Edge Perspectives in Service Delivery for Older Adults. Online conference, October, 2017.
- Ozmeral, E.J., Berg, M., Eddins, D.E., Eddins, A.C. (2017). Age-related cortical changes in spatial auditory attention. *J Acoust. Soc. Am.* 141(5):3974
- Higdon, C., Eddins, A.C. (2017). Moving Beyond IPP and IPE 101. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), New Orleans, LA.
- Ozmeral, E.J., Berg, M., Eddins, D.A., Eddins, A.C. (2017). Aging alters attentional modulation of spatial processing in auditory cortex. American Auditory Society, Scottsdale, AZ.
- Ozmeral, E.J., Eddins, D.A., Eddins, A.C. (2016). Human electrophysiology of endogenous auditory spatial attention. *J. Acoust. Soc. Am.*, 140(4), 3155.
- Eddins, A.C. (2016). Relating perceptual deficits in older adults to dynamic changes in cortical processing. 33rd World Congress of Audiology, Vancouver, British Columbia.
- Eddins, A.C. (2016). Beyond the audiogram: Characterizing clinical attributes of the genetics of age-related hearing loss. 33rd World Congress of Audiology, Vancouver, British Columbia.
- Matthews, C., Lin, F., Sanchez, V., Arnold, M., Eddins, A., Reed, N., Chisolm, T. (2016). A Manualized Audiology Intervention for the ACHIEVE Trial(Can Hearing Intervention Slow Cognitive Decline?). American Auditory Society, Scottsdale, AZ.
- Eddins, A.C., Eddins, D.A. (2015). Cortical dynamics during spectrotemporal processing as indexed by directed functional connectivity. *J Acoust. Soc. Am.* 138(3):183, doi:10.1121/1.4933828
- Ozmeral, E.O., Eddins, D.A., Eddins, A.C. (2015). Age-related differences in auditory cortical representation of spatial cues. *J Acoust. Soc. Am.* 138(3):1832, doi:10.1121/1.4933827
- Eddins, A.C., Eddins, D.A. (2015). Physiological mechanisms associated with binaural processing deficits in older adults. Canadian Academy of Audiology, Niagara Falls, Ontario, Canada.
- Eddins, D.A., Eddins, A.C. (2015). Auditory dysfunction and remediation associated with everyday listening of older adults. Canadian Academy of Audiology, Niagara Falls, Ontario, Canada.
- Eddins, D.A., Eddins, A.C. (2015). Emerging therapeutics targeting deficits of Presbycusis. Aging and Speech Communication: 6th Interdisciplinary International Research Conference, Indiana University, Bloomington, IN
- Lin, F., Albert, M., Alonso, A., Chisolm, T., Coker, L., Crowley, P., Deal, J., Eddins, A., Minotti, M., Mosley, T., Rebok, G., Sharrett, R., Wruck, L., Coresh, J. (2015). Development of the

- ACHIEVE Healthy Aging Study – A Randomized Controlled Trial to Determine if Hearing Loss Treatment Can Reduce the Risk of Cognitive Decline and Dementia in Older Adults. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, Vol. 11, Issue 7, P756–P757. Alzheimer's Association International Conference, Washington, DC, July, 2015.
- Ozmeral, E., 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? *Assoc for Res in Otolaryngol*, Abstr, 163:161.
- Eddins, A.C., Ozmeral, E., Eddins, D.A, (2014). Age-related declines in hemispheric asymmetry as revealed in the binaural interaction component, *J. Acoust. Soc. Am.* 136: 2291, doi:10.1121/1.4900285
- Eddins, D. A., Ozmeral, E. Eddins, A.C. (2014). Aging as a window into central auditory dysfunction: Combining behavioral and electrophysiological approaches. *J. Acoust. Soc. Am.* 136: 2291, doi:10.1121/1.4900284.
- Eddins, A.C, Eddins, D.A. (2014). Presbycusis: Emerging solutions to old problems. *American Speech Language Hearing Association*, Abstr 1680:140.
- Mohan, A., Eddins, D.A., Eddins, A.C. (2014). Cortical processing of spectral, temporal, and spectro-temporal modulation. *American Academy of Audiology*, Abstr PP607:157.
- Swanson, T., Henning, R., Eddins, A.C. (2014). Partners for Excellence in the AuD Externship Process: Stengthening the University/Externship Site Relationship. *American Academy of Audiology*, Abst LM105.
- Cokely, C., Eddins, A.C. (2014). Monitoring Outcomes for Effective Student and Program Management. *Council of Academic Programs in Communication Sciences & Disorders (CAPCSD)*, Abstr.
- Fluegel, B., Lister, J., Clifton, K., O'Brien, J., Eddins, A., Harrison, A., Edwards, J. (2014). Effects of Auditory-Cognitive Training on ERPs in Older Adults. *Cognitive Aging Conference*, Abstr.
- Eddins, A.C., Eddins, D.A. (2013). Age-related changes in neural processing of binaural temporal cues in normal and hearing-impaired adults. *Aging and Speech Communication: 5th Interdisciplinary International Research Conference*, Indiana University, Bloomington, IN. Abstr, 5.
- Romershausen, B., Eddins, A.C., Eddins, D.A. (2013). Neural Correlates of Temporal Cues in the BMLD in Older Adults. *Florida Academy of Audiology*.
- Eddins, A.C., Romershausen, B., Eddins, D.A. (2013). Cortical evoked potential measures as biomarkers of binaural temporal processing in older adults. *Assoc for Res in Otolaryngol*, Abstr, 1394.
- Clifton, G.K., Lister, J., Eddins, A., Edwards, J., O'Brien, J. (2013) The effect of Brain Fitness™ auditory training On P3b amplitude and latency In older adults. *Seventh International Adult Aural Rehabilitation Conference*.
- Eddins, A.C., Kline, M., Eddins, D.A. (2012). Behavioral and electrophysiological measures of stimulus envelope and fine structure contributions to the binaural masking level difference. *J. Acoust. Soc. Am.* 131: 3517, doi:10.1121/1.4709307
- Eddins, D.A., Eddins, A.C., Frisina, D.R. (2011). Age-related changes in the binaural temporal window. *J. Acoust. Soc. Am.*,129(4): 2488.

- Leong, U.C. and Eddins, A.C. (2006). Responses to dichotic broadband noise stimulation in chinchilla ventral cochlear nucleus. *Assoc for Res in Otolaryngol, Abstr*, 1281.
- El-Badry, M., Eddins, A.C., McFadden, S.L. (2004). Onset and progression of physiological changes following auditory nerve afferent and inner hair cell lesions in carboplatin treated chinchillas. *Assoc for Res in Otolaryngol, Abstr* 974:330.
- El-Badry, M., Ding, D., Eddins, A.C., and McFadden, S.L. (2004). Morphological abnormalities 12h after carboplatin are not reflected in various physiological measures. *Association for Research in Otolaryngology, Abstr* 975:330.
- Leong, U-C., and Eddins, A.C. (2004). Duration coding in chinchillas with cochlear damage. *American Academy of Audiology, Abstr* PP612.
- El-Badry, M., Ding, D., Zheng, X.Y., and Eddins, A.C. (2003). Anatomical and electrophysiological changes after auditory nerve demyelination in chinchillas. *Assoc for Res in Otolaryngol* 983:249.
- Leong, U-C., and Eddins, A.C. (2003). Multi-unit temporal pattern analysis of duration coding in the cochlear nucleus. *Assoc for Res in Otolaryngol* 957:242.
- Eddins, A.C., and Eddins, D.A. (2002). Psychophysical and physiological measures of spectro-temporal processing. *American Speech-Language-Hearing Association*, 1214:233.
- Eddins, A.C. and Eddins, D.A. (2002). Physiological measures of auditory temporal integration in chinchillas and humans. *J. Acoust. Soc. Am.* 112:2286.
- Eddins, D.A., and Eddins, A.C. (2002). Psychophysical and physiological measures of spectro-temporal processing in humans. *J. Acoust. Soc. Am.* 112:2286.
- Liu, J. and Eddins, A.C. (2002). Effects of signal duration and temporal position on physiological measures of the growth of masking. *J. Acoust. Soc. Am.* 111:2471.
- El-Badry, M., Ding, D., Eddins, A.C. (2002). Demyelination of The Auditory Nerve Using Intraneural Injection of Doxorubicin (Adriamycin): Preliminary data. *Assoc for Res in Otolaryngol, Abstr* 924:243.
- Eddins, A.C., Eddins, D.A., Coad, M.L., Lockwood, A.H., Watson, C.S. (2001). Cognitive and sensory influence on the perception of complex auditory signals. *J. Acoust. Soc. Am.* 109:2309-10.
- Eddins, A.C. and Leong, U.C. (2001). Temporal pattern analysis of duration coding in the cochlear nucleus. *Assoc for Res in Otolaryngol, Abstr* 202:58.
- El-badry, M. Rosenberg, J., and Eddins, A.C. (2001). Effect of outer hair cell loss on temporal integration in the chinchilla inferior colliculus. *Assoc for Res in Otolaryngol, Abstr* 679:192.
- Eddins, A.C. and El-Badry, M. (2000). Effects of cochlear pathology on central auditory temporal processing. *American Speech-Language-Hearing Association*.
- Hashino, E., Shero, M., Eddins, A.C., Milbrandt, J., and Johnson, E.M., Jr. (2000). GDNF and NRTN are target-derived trophic factors essential for ciliary ganglion neuron development. *Society for Neuroscience Abstracts*.
- El-badry, M., Burkard, R., and Eddins, A.C. (2000). Effect of IHC loss on temporal integration in the chinchilla inferior colliculus. *Assoc for Res in Otolaryngol, Abstr* 893:257.
- Eddins, A.C. (1999). Cortical processing of speech and other complex sounds in humans. *Assoc for Res in Otolaryngol, Abstr* 688:173-174.
- Liu, C., and Eddins, A.C. (1999). Physiological and behavioral estimates of short-term temporal integration in normal-hearing humans. *Assoc for Res in Otolaryngol, Abstr* 172:44.

- Eddins, A. C. (1998). Spectro-temporal influence on auditory cortical evoked-potential thresholds. *J. Acoust. Soc. Am.* 103:2847.
- Sarantinos, G., Vardaxis, V., and Eddins, A.C. (1998). EMG adaptations to learning and retention of a novel multi-joint movement task. *Society for Neuroscience Abstracts*.
- 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. *Society for Neuroscience Abstracts*, 23:1033.
- Harty, M. W., Sengelaub, D.R., and Eddins, A.C. (1997). Testosterone alters recruitment in an androgen-sensitive neuromuscular system. *Society for Neuroscience Abstracts*, 23:1041.
- Eddins, A.C., Zuskov, M., and Salvi, R.J. (1997). Changes in distortion-product otoacoustic emissions with increasing levels of asymptotic threshold shift. *Assoc for Res in Otolaryngol*, Abstr 776:194.
- Eddins, D.A. and Eddins, A.C. (1996). Electrophysiological and behavioral measurements of spectro-temporal processing: comodulation masking release. *J. Acoust. Soc. Am.* 100:2629.
- Redner, J. and Eddins, A.C. (1996). Physiological correlates of the time-intensity trade in auditory late responses. *J. Acoust. Soc. Am.* 99:2564.
- Eddins, A.C., Salvi, R.J., Wang, J., and Powers, N.L. (1996). The contribution of auditory nerve fibers to the time-intensity trade. *Assoc for Res in Otolaryngol*, Abstr 302:76.
- Middlebrooks, J.C., Eddins, A.C., Xu, L., and Green, D.M. (1995). Cortical codes for sound location. *J. Acoust. Soc. Am.* 97:3398.
- Clock, A.E., Xu, L., Green, D.M., and Middlebrooks, J.C. (1994). Neural network analysis of auditory spatial representation: I. Temporal firing patterns of cortical neurons independent of stimulus duration. *Assoc for Res in Otolaryngol*, Abstr 94:24.
- Xu, L., Clock, A.E., Green, D.M., and Middlebrooks, J.C. (1994). Neural network analysis of auditory spatial representation: II. Spatial interpolation and level invariance. *Assoc for Res in Otolaryngol*, 95:24.
- Middlebrooks, J.C., Clock, A.E., and Green, D.M. (1993). Sound location represented in the firing patterns of auditory cortical neurons. *Society for Neuroscience Abstracts*, 19:1688.
- Clock, A.E., Salvi, R.J., and Saunders, S.S. (1992). Correlates of temporal integration in the cochlear nucleus of the chinchilla. *Assoc for Res in Otolaryngol*, Abstr 180:60.

INVITED PRESENTATIONS

- Eddins, A.C. (2020, Mar). The Changing Role of Electrophysiology in Clinical Audiology. 50th Annual Mid-South Conference on Communicative Disorders, University of Memphis, Memphis, TN.
- Eddins, A.C., Eddins, D.A. (2019, Nov). Consideration of central auditory plasticity in the treatment of tinnitus and hyperacusis. American Speech Language Hearing Association, Orlando, FL.
- Eddins, A.C. (2019, Feb). Aging and the auditory system: Neural changes, perceptual consequences and emerging approaches to evaluation and remediation. Plenary Speaker, Indian Speech Hearing Association Conference, Bangalore, India
- Eddins, A.C. (2018, Aug). Short-term auditory deprivation induces neural plasticity in human brainstem and cortex. Twentieth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.

- Eddins, A.C. (2018, Jan). Effects of aging on cortical processing of auditory binaural and spatial cues. 12th Annual Meeting of the Auditory Cognitive Neuroscience Society
- Eddins, A.C., Ozmeral, E.J., Eddins, D.E. (2017, Nov). Characterizing declines in spatial hearing with age using behavioral and neurophysiological measures. Aging & Speech Communication conference, 7th Interdisciplinary International Research Conference, Tampa, FL.
- Eddins, A.C., Sanchez, V.A. (2017, Oct). Emerging Interventions for Age-Related Hearing Loss. ASHA Audiology 2017: Cutting-Edge Perspectives in Service Delivery for Older Adults. ASHA Online conference.
- Eddins, A.C. (2017, Aug). Age-related cortical changes in spatial auditory attention. Nineteenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Eddins, A.C. (2016, Sep). Relating perceptual deficits in older adults to dynamic changes in cortical processing. 33rd World Congress of Audiology, Vancouver, BC.
- Eddins, A.C. (2016, Sep). Beyond the audiogram: Characterizing clinical attributes of the genetics of age-related hearing loss. 33rd World Congress of Audiology, Vancouver, BC.
- Eddins, A.C. (2016, Aug). Indexing tinnitus treatment effects with behavioral and cortical oscillation measures. Eighteenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Eddins, A.C. (2015, Dec). Dynamics of the aging ear and brain – USF College of Behavioral and Community Sciences Pecha Kucha. Tampa, FL.
- Eddins, A.C., Eddins, D.A. (2015, Oct). Physiological mechanisms associated with binaural processing deficits in older adults. Canadian Academy of Audiology, Niagara Falls, Ontario, Canada.
- Eddins, D.A., Eddins, A.C. (2015, Oct). Auditory dysfunction and remediation associated with everyday listening of older adults. Canadian Academy of Audiology, Niagara Falls, Ontario, Canada.
- Eddins, D.A., Eddins, A.C. (2015, Oct). Emerging therapeutics targeting deficits of Presbycusis. Aging and Speech Communication: 6th Interdisciplinary International Research Conference, Indiana University, Bloomington, IN
- Eddins, A.C. (2015, Jul). Cortical Dynamics during Spectrotemporal Processing. Seventeenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Eddins, A.C., Eddins, D.A. (2014, Nov). Presbycusis: Emerging solutions to old problems. American Speech Language Hearing Association, Orlando, FL.
- Eddins, A.C., Ozmeral, E., Eddins, D.A. (2014, Oct). Age-related declines in hemispheric asymmetry as revealed in the binaural interaction component, Acoustical Society of America, Indianapolis, IN.
- Eddins, A.C. (2014, Aug). Cortical distribution of Spectral, Temporal and Spectro-temporal Processing. Sixteenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Cokely, C., Eddins, A.C. (April, 2014). Monitoring Outcomes for Effective Student and Program Management. Council of Academic Programs in Communication Sciences & Disorders (CAPCSD), Orlando, FL.
- Eddins, A.C., Eddins, D.A. (2013, Oct.). Age-related changes in neural processing of binaural temporal cues in normal and hearing-impaired adults. Aging and Speech Communication:

- 5th Interdisciplinary International Research Conference, Indiana University, Bloomington, IN.
- Eddins, A.C. (2013, Aug). Neural markers of age-related changes in binaural temporal processing. Fifteenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Eddins, A.C., Romershausen, B., Eddins, D.A. (2013, Feb). Cortical evoked potential measures as biomarkers of binaural temporal processing in older adults. Assoc for Res in Otolaryngol.
- Eddins, A.C. (2013, Jan). Audiology Education in Thailand, University of South Florida, Audiology Grand Rounds, Tampa, FL.
- Eddins, A.C., Eddins, D.A. (2012, Nov). You're aging ear: What you need to know about hearing and hearing loss. USF Health in The Villages, The Villages, FL.
- Eddins, A.C. (2012, Aug). Physiological correlates of binaural cues in the MLD. Fouteenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Frisina, R.D., Walton, J.W., Eddins, D.A., Eddins, A.C. (2011, Oct). Aging and the Central Auditory System: A Workshop. Aging and Speech Communication Conference, Indiana University, Bloomington, IN.
- Eddins, A.C. (2011, Aug). Changes in the binaural temporal window with age. Thirteenth annual meeting of Faculty in Perceptual Sciences. Northwestern University, Evanston, IL.
- Eddins, A.C. (2011, Mar). Physiological dynamics of temporal and spectral processing in normal hearing. CSD Doctoral Seminar, University of South Florida, Tampa, FL.
- Eddins, A.C. (2009, April). Navigating the Maze of Solutions for Better Hearing. Always Better Seminar Series, University of Rochester and the Highlands at Pittsford, Rochester, NY.
- Eddins, A.C. (2009, July). Assessment and Management of Tinnitus. Twelfth Annual Meeting of Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2008, Nov). Biomedical and Health Science Careers in Hearing. ASL 250, University of Rochester, Rochester, NY
- Eddins, A.C. (2008, Nov). Solutions to Better Hearing. Cloverwood Adult Living Center, Pittsford, NY.
- Eddins, A.C. (2008, July). Audiology Clinical Practice at the University of Rochester Medical Center . Eleventh Annual Meeting of Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2006, Oct). How we hear what we hear: Correlations between physiology and perception. Alaska Speech and Hearing Association Annual Meeting.
- Eddins, A.C. (2006, Oct). Recent Advances in Auditory Physiological Research. Alaska Speech and Hearing Association Annual Meeting.
- Eddins, A.C. (2006, July). Evidence for Binaural Coding in the Ventral Cochlear Nucleus. Ninth Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2005, Sept). How we hearing what we hear and Where things can go wrong. Always Better Seminar Series, University of Rochester, Rochester, NY.
- Eddins, A.C. (2005, May). Ototoxicity: What Audiologists Should Know. Buffalo Hearing and Speech Center, Buffalo, NY.

- Eddins, A.C. (2004, July). Electrophysiological Measures of Spectral Modulation in Humans. Eighth Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2003, Nov). How myelin damage can lead to hearing loss. Neuroscience Seminar, Department of Neuroscience, Oberlin College, Oberlin, OH.
- Eddins, A.C. (2003, Oct). Physiological consequences of auditory nerve myelinopathy. Seminar for the Department of Otolaryngology, University of North Carolina Medical School, Chapel Hill, NC.
- Eddins, A.C. (2003, July). Mechanisms for duration coding in the chinchilla cochlear nucleus. Seventh Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2002, Aug). Anatomical and physiological effects of selective auditory nerve demyelination. Sixth Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2001, Nov). The functional anatomy of complex auditory perception. The Positron Emission Tomography Center Tenth Anniversary Symposium. VA Western New York Healthcare System and the University at Buffalo, Buffalo, NY.
- Eddins, A.C. (2001, July). Functional influence on the perception of complex auditory signals. Fifth Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2001, June). Cognitive and sensory influence on the perception of complex auditory signals. Acoustical Society of America special session on "Understanding the Dynamics of Auditory Perception through Neuroimaging."
- Eddins, A.C. (2000, Dec). Understanding the relation between sensory encoding and auditory perception. On the Frontiers of Science: Leading Young Investigators and the National Science Foundation. An Event in Honor of the Foundation's Fiftieth Anniversary. Columbia University, New York, NY.
- Eddins, A.C. (2000, July). Neural coding of auditory temporal information. Fourth Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (2000, June). Physiological bases of temporal integration in the central auditory system. University of Rochester, Dept. of Otolaryngology, Rochester, NY.
- Eddins, A.C. (1999, Sept). Overview of auditory evoked potentials. Buffalo OAE/ABR Hands-On Workshop, Buffalo, NY.
- Eddins, A.C. (1999, July). Understanding the mechanisms of acquired hearing loss. Third Annual Meeting of Junior Faculty in Perceptual Science, Northwestern University, Evanston, IL.
- Eddins, A.C. (1999, Feb). Cortical processing of speech and other complex sounds in humans. Invited paper for the Symposium on Integrative Neuroscience, 22nd Midwinter meeting of the Association for Research in Otolaryngology, St. Petersburg, FL.
- Eddins, A.C. (1998, Aug). Physiological estimates of temporal integration using auditory evoked potentials. Second Annual Meeting of Junior Faculty in Perceptual Science, Purdue University, West Lafayette, IN.
- Eddins, A.C. and Eddins, D. (1998, July). Behavioral and physiological estimates of temporal processing. Hearing Research Lab, University at Buffalo, Buffalo, NY.

- Eddins, A.C. (1998, March). It's about time: Physiological correlates of auditory temporal integration. Department of Audiology and Speech, Purdue University, West Lafayette, IN.
- Eddins, A.C. (1997, October). Cortical activation during complex auditory discrimination tasks as measured by PET imaging. Department of Speech and Hearing Sciences Colloquium, Indiana University, Bloomington, IN.
- Eddins, A.C. (1997, July). Auditory discrimination: The relation between perception and cortical activation. First Annual Meeting of Junior Faculty in Perceptual Science, Indiana University, Bloomington, IN.
- Eddins, A.C. (1996, May). Auditory temporal integration by single neurons. Hearing and Chemical Senses Seminars, Kresge Hearing Research Institute, University of Michigan, Ann Arbor, MI.
- Eddins, A.C. (1994, September). Temporal integration in the cochlear nucleus. Neural Science Colloquium, Indiana University, Bloomington, IN.
- Clock, Ann E. (1993, December). An introduction to cochlear implants. Human Communication Dynamics, University of Florida, Gainesville, FL.
- Clock, Ann E. (1993, May). Current issues in cochlear implants. Speech-Language-Audiology Association of Alachua County, Gainesville, FL.

BOOK REVIEWS

- Eddins, A.C. (2008). Review of "Pharmacology and Ototoxicity for Audiologists," by Kathleen Campbell, published by Thomson, Delmar Learning. International Journal of Audiology, 47(7), 445.
- Eddins, A.C. (1995) Review of "The Mammalian Auditory Pathway: Neurophysiology," edited by A. N. Popper and R. R. Fay. Ear & Hearing, 16(5):544-545.
- Clock, A.E. (1993). Review of "Cochlear Implants: A Practical Guide," edited by Huw Cooper. Volta Review, 95(3):305.

THESES

- Clock, A.E. (1992). Neural mechanisms of auditory temporal integration in the cochlear nucleus. Doctoral dissertation, State University of New York at Buffalo, Buffalo, New York.
- Clock, A.E. (1989). Variance of ear canal resonance in adults. Unpublished master's thesis, University of California at Santa Barbara, Santa Barbara, California.

COURSES TAUGHT

University of South Florida

- SPA 3310 Introduction to the Disorders of Hearing, 2012-2018
- SPA 5303 Auditory Anatomy & Physiology, 2021
- SPA 6311 Medical Audiology, 2011-2019
- SPA 6392 Professional Audiology, 2011
- SPA 7332 Advanced Electrophysiology, 2012-present

Mahidol University, Bangkok, Thailand

- RACD 523 Evoked Potentials, 2012, 2016

SUNY University at Buffalo

- CDS 290 Audiology: Diagnosis & Management, 2001
- CDS 383 Anatomy and Physiology of Audition, 2000-04

CDS 484/529 Aural Rehabilitation, 1999
CDS 530 Audiology Grand Rounds, 2003
CDS 552 Diagnostic Audiology II, 2003-2005
CDS 610 Vestibular Testing, 2002-2005
CDS 611 Medical Audiology, 1999-2001
CDS 616 Auditory Evoked Potentials, 2002-2005
CDS 644 Experimental Audiology, 2002
CDS 600 Independent Study, 1999-2002

Indiana University

S115: Undergraduate Honors Seminar in Audiology, 1998
S275: Human Hearing and Communication, 1997-98
S371/S571: Auditory Anatomy and Physiology, 1994 – 97
S475: Advanced Audiological Testing, 1995 – 99
S572: Clinical Electrophysiology, 1995 – 99
S577: Industrial Audiology, 1996
S674: Advanced Seminar in Auditory Physiology, 1995, 98
N501: Neural Science II: Auditory System, 1995 – 98
N613: Neural Mechanisms of Hearing, 1997

RESEARCH SUPERVISION

Post-doctoral Fellows

Anusha Yellemsetty, Ph.D., University of South Florida, 2018 - 2020
Paul Reinhart, Ph.D., University of South Florida, 2017-2018
Hannah Brotherton Maeda, Ph.D., University of South Florida, 2016 – 2018
Eric Hoover, Ph.D., University of South Florida, 2015 – 2018
Erol Ozmeral, Ph.D., University of South Florida, 2013 – 2017. Funded by a NIH F32, “Behavioral and Cortical Signatures of Reduced Auditory Spatial Tuning with Age,” 2013-2016.
Itzel Orduña, Ph.D., Funded by a NSF Post-doctoral fellowship, “Neural correlates of complex auditory learning,” 2004-2006.

Ph.D. Chair

Jingreed Pichaitanaporn, Ph.D. student, University of South Florida, 2017-present
Sittiprapa Isarangura, Ph.D. student, University of South Florida, 2016 – 2020
U-Cheng Leong, Ph.D., University at Buffalo, 2001-2006
Mohamed El-Badry, Ph.D., University at Buffalo, 1998-2002
Chang Liu, Ph.D. student, Indiana University, 1997-99
Shawn Goodman, Ph.D. student, Indiana University, 1998-99

Ph.D. Committee Member

Angkana Lertpoompunya, CSD University of South Florida, 2018 – present
Dana Cherri, CSD University of South Florida, 2018 - present
Robert Budinsky, University of South Florida, 2019 – present
Sara Bochat, University of South Florida, 2020 - present
Daniel Pupo, Aging Studies, University of South Florida, 2019 - 2021
Peter Hutchison, CSD, University of South Florida, 2015-2020

Andrea Lowe, Biomedical Engineering, University of South Florida, 2016-2018
Kate Wadlinger, CSD, University of South Florida, 2017-2018
Mitch Aquilina, CSD, University of South Florida, 2017-2018
Jennifer Aranda-Cordero, CSD, University of South Florida, 2017-2018
Karen Bell, CSD, University of South Florida, 2015-2018
Tanika Williamson, Ph.D., Biomedical Engineering, University of South Florida, 2016
Jeanine Mansour, Biomedical Engineering, University of South Florida, 2014-2015
Carol Peronto, Aging Studies, University of South Florida, 2012-2013
Natalie Douglas, Ph.D., CSD, University of South Florida, 2013
Kathleen Szalda, Ph.D., CDS, University at Buffalo, 2007
Edward Lobarinas, Ph.D., CDS, University Buffalo, 2006
Jinyu Qian, Ph.D., CDS, University at Buffalo, 2005
Eric Bielefeld, Ph.D. CDS, University at Buffalo, 2005
Kelly Carney, Ph.D., CDS, University at Buffalo, 2004
Aniket Saoji, Ph.D., CDS, University at Buffalo, 2004
Jian Wang, Ph.D., CDS, University at Buffalo, 2000
Nathan Amos, Ph.D., SPHS, Indiana University
Sarah Ferguson, Ph.D., SPHS, Indiana University

Au.D. Research Chair

Leah Patrinostro, University of South Florida, 2021 – present.
Jessica Combs, University of South Florida, 2021 – present.
Sarah Grover, University of South Florida, 2021 – present, Co-Chair.
Amm Yi Liang, University of South Florida, 2021 – present, Co-Chair.
Megan Hunter, University of South Florida, 2020-present. Project Title: The relationship between ferritin levels, hematocrit percentages, and neural maturation in very low birth weight infants.
Abigail Biberdorf, University of South Florida, 2019-present. Project Title: Retrospective study of ABR outcomes from Tampa General Hospital newborn hearing screening and follow-up testing – Does Ethnicity matter?
Christina Coppolla, University of South Florida, 2017-present. Project Title: Cortical measures of tinnitus perception during acute sound therapy.
Caroline Kelly, University of South Florida, 2017-present. Project Title: Stimulus Effects on Tinnitus Loudness Perception and the Relation to Other Tinnitus Characteristics
Taylor Traficant, University of South Florida, 2016-present. Project Title: Establishing the Relationship Among Aldosterone, Audition, and Age.
Samuel Bernhisel, University of South Florida, 2015 – 2018. Project Title: Hemispheric organization and functional connectivity of spectrotemporal processing in normal hearing adults
Kelsey Harris, University of South Florida, 2015 – 2018. Project Title: Cortical Processing of Dynamic ITD and ILD Cues in Normal Hearing Listeners
Stefnie Glazer, University of South Florida, 2014 – 2017. Project Title: Cortical oscillations as biomarkers of short-term tinnitus modulation.
Pablo Almanza Galicia, University of South Florida, 2014 - 2017. Project Title An Exploratory Examination Of Generic Health Measures In A Clinical Trial Of Hearing Aid Use.

Alicia Durkin, University of South Florida, 2013-2016. Project Title: The effect of age on hemispheric distribution of interaural time differences (ITD).

Ioanna Tagarelli, University of South Florida, 2013-2016. Project Title: The effect of age on hemispheric distribution of the binaural interaction component (BIC) during ITD processing.

Miller McInnis, University of South Florida, 2014-2016. Project Title: The effect of age on interaural time difference (ITD) discrimination.

Brendan McAteer, University of South Florida, 2013-2015. Project Title: The development and validation of an audiologic test battery to diagnose individuals with Friedreich's ataxia.

Bryce Romershausen, University of South Florida, 2011-2014. Project Title: Evoked potential correlates of the binaural masking level difference in older adults.

Makenzie Kline, University of South Florida, 2010-2013. Project Title: Effects of stimulus temporal envelope and fine structure on physiological correlates of the binaural masking level difference.

Amy Murray, University of South Florida, 2010-2013. Project Title: The effect of auditory training on behavioral and event-related potential measures of auditory memory.

Jennifer Dytche, AuD, University at Buffalo, 2002-2005. Project Title: Non-target stimulus effects on P300 responses in a 3-stimulus oddball paradigm.

Christina Babian, AuD, University at Buffalo, 2002-2004. Project Title: Effect of auditory masking on cross-modal processing of auditory and visual stimuli.

Jaclyn Smith, AuD, University at Buffalo, 2002-2004. Project Title: Behavioral and evoked potential measures of the masking level difference: Stimulus envelope versus fine structure.

Au.D. Research Committee Member

Lindsay Kummerer, University of South Florida, 2021 - present

Jessica Silvani, University of South Florida, 2017-2020

Melanie Hoglievina, University of South Florida, 2017-2020

Zachary Moore, University of South Florida, 2017-2020

Kira Sullivan, University of South Florida, 2017-2020

Scheyere Moir, University of South Florida, 2017-2019

Craig Spandau, University of South Florida, 2014-2017

Derek Gavin, University of South Florida, 2013-2016

Kyle Clifton, University of South Florida, 2011-2014

Susanne Sparkman, University of South Florida, 2010-2013

David Pryznosch, University at Buffalo, 2004-5

Ross Cushing, University at Buffalo, 2003-4

Leanne Cleveland, AuD, University at Buffalo, 2003-4

Jenifer Woo, AuD, University at Buffalo, 2003-4

M.A. Thesis Chair

Joelle Redner, M.A., Indiana University, 1996. Thesis: Physiological correlates of temporal integration in auditory late responses.

Kristin Moran, M.A., Indiana University, 1996. Thesis: Effect of stimulus duration on the P300 auditory evoked response.

M.A./M.S. Thesis Committee Member

- Penaz Parveen Sultana, M.S., University of South Florida, Electrical Engineering, 2018.
Thesis: Quantifying the Neurovascular Response of Auditory Cortex using fNIRS.
- Anusha Mohan, M.S., University of South Florida, Biomedical Engineering, 2014. Thesis:
Neural correlates of spectral, temporal and spectro-temporal modulation in young,
normal hearing adults
- Eva Bero, M.A., University at Buffalo, 2001. Thesis: Spectral Contrast Sensitivity: Auditory
Transfer Functions for Sinusoidal Spectral Ripple
- Shelly Godar, M.A., Indiana University, 1999. Thesis: Understanding the influence of
stimulus generation characteristics on measures of temporal gap detection at low- and
high-audio frequencies.
- Laura Barber, M.A. Indiana University, 1996. Thesis: The role of temporal cues in binaural
hearing.
- Timothy Cosgrove, M.A., Indiana University, 1996. Thesis: The clinical uses of Maximum
Length Sequences.
- Jennifer Jones, M.A., Indiana University, 1996. Thesis: Transient evoked otoacoustic
emissions in Down's syndrome.
- Rebecca Walters, M.A., Indiana University, 1996. Thesis: The use of a laser technique in
stapedectomy surgery and its effect on hearing.

Undergraduate Directed Research

- Kayla Borges, USF Communication Sciences & Disorders, 2018
- Nicole Wolfenbarger, USF Communication Sciences & Disorders, 2018
- Christina Coppola, USF Communication Sciences & Disorders, 2016-17
- Sofiya Chertina, USF Communication Sciences & Disorders, 2016
- Kayla Cintron, USF Communication Sciences & Disorders, 2015-6
- Lindsay Edmonds, USF Communication Sciences & Disorders, 2015
- Megan Ungs, USF Communication Sciences & Disorder, 2015
- Sarah Olesen, USF Communication Sciences & Disorders, 2014- 2015
- Alex Matta, USF Communication Sciences & Disorders, 2015
- Alyssa McElroy, USF Communication Sciences & Disorders, 2013-2014
- Alauna Martinez, USF Biological Sciences, 2013-2014
- Madison Plummer, USF Communication Sciences & Disorders, 2014
- Richard Gardner, USF Communication Sciences & Disorders, 2014
- Michael DeValle, USF Biomedical Engineering, 2014

SOCIETY MEMBERSHIPS

- Member, American Speech-Language-Hearing Association (1992 – present)
- Fellow, American Academy of Audiology (2000 – present)
- Member, Acoustical Society of America
- Member, Association for Research in Otolaryngology
- Member, American Auditory Society

PROFESSIONAL SERVICE

Ad Hoc Grant Reviewer: Department of Defense Congressionally Directed Medical Research Programs (CDMRP); National Science Foundation

Ad Hoc Journal Reviewer: American Journal of Audiology; Ear and Hearing; Frontiers in Psychology; Hearing Research; Journal of the Acoustical Society of America; Journal of the Association for Research in Otolaryngology; Journal of Speech, Language, and Hearing Research; Journal of Fluency Disorders; Neurobiology of Aging; Scientific Reports; Trends in Hearing.

Chair, Grant Review Panel: Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2021

Reviewer, ASHA Foundation Researcher-Practitioner Collaboration Grants, 2020

Conference Organizer, "Contemporary Hearing Science inspired by David M. Green", sponsored by the Knowles Hearing Center at Northwestern University, July 25-26, 2019.

Reviewer, American Auditory Society meeting abstracts for 2019 meeting.

Reviewer, ASHA Foundation Student Grants, 2017

Participant, Future of Audiology, 2017 - 2019

Research & Academics Committee, Council of Academic Programs in Communication Sciences & Disorders, Scholarship, 2015- 2016

Chair, Education Committee, American Academy of Audiology, 2013-2016

Research on Audiology Education Subcommittee, American Academy of Audiology, 2011-13

Council on Academic Accreditation Election Committee, American Speech-Language-Hearing Association Annual Convention, 2009

NSF Grant Review Panel for Course, Curriculum, and Laboratory Improvement (CCLI) program, Adaptation and Implementation (A&I) track.

Consultant and Site Visitor to the Texas Higher Education Coordinating Board. Review the proposed Doctor of Audiology degree at Lamar University, Beaumont, TX 2002.

Acoustical Society of America, Psychological and Physiological Acoustics Special Session Organizer on "Understanding the Dynamics of Auditory Perception through Neuroimaging." Annual Meeting, Chicago, IL 2001

Psychological and Physiological Acoustics Technical Committee, Acoustical Society of America, 2000-2003.

Hearing Science Subcommittee, American Speech-Language-Hearing Association Annual Convention, 1995, 2000.

Education Committee, Association for Research in Otolaryngology, 2002-2004

Bylaws Committee, Association for Research in Otolaryngology, 2000

Chair of Judges, Intel International Science and Engineering Fair, representing the Acoustical Society of America, 1997.

UNIVERSITY AND COMMUNITY SERVICE

USF Faculty Success Initiative: Finance, Infrastructure, and Analytics Advisory Group, 2020-present

USF Faculty Senate, USF Tampa, 2019-present

Core member, USF Global Center for Hearing & Speech Research, 2011-present

Outside Chair, Sarah Eisel, Ph.D. Dissertation committee, Aging Studies, USF, 2018

Executive Committee, USF Communication Disorders and Sciences, 2010-2017, 2018-present

Search Committees, USF Tampa, Instructors for Undergraduate CSD, 2012-13, 2016
Search Committees, USF Tampa, Clinical Instructor in Audiology, 2011-12, 2016, 2017
Search Committee, USF Sarasota- Manatee, Asst Prof in Audiology, 2011-12
USF Ph.D. in Translational Neuroscience Committee, 2011-2014
Course Marshal, Wegman's LPGA Tournament, June 2007, 2008, 2009
Walk-4-Hearing, representing Strong Audiology, May 2008, 2009
Alesi Health Fair, representing Strong Audiology, October 2006, 2007, 2008, 2009
Faculty Senate Computer Services Committee, University at Buffalo, 2002-2005
Undergraduate and Audiology Curriculum Committees, Department of Communicative Disorders & Sciences, University at Buffalo, 1999-2002
Department Representative, CAS Preview Day, 2001, 2002
Judge, Sigma Xi Research Day, University at Buffalo, 2000 - 2004
Audiology Clinical Supervisor, National Day of Hearing Testing, May 2000, University at Buffalo, Speech and Hearing Clinic
Master's Education Team, Dept of Speech and Hearing Sci, Indiana University 1996-99
Audiology Graduate Advisor, Dept of Speech and Hearing Sci, Indiana University, 1995-99
Core Faculty, Program in Neural Science, Indiana University, 1994-99
Associate Faculty, Cognitive Science, Indiana University, 1994-99
Search Committee, Dean for Women's Affairs, Indiana University, 1999
Audiology Clinical Supervisor: ON-TRACK preschool screening program for Monroe County, IN; Indiana University Health Fair hearing screening, 1994-99