VITAE: September, 2026

Edward J. Golob
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Education

1999-2001	Postdoctoral fellow (NIH Training Grant) Department of Neurology University of California, Irvine
1993-1999	Ph.D., Experimental Psychology Department of Psychology Dartmouth College
1987-1991	B.A., Psychology Capital University Columbus, OH.

Academic Positions

2022 – Present	Professor, Neuroscience Program Faculty, Department of Neuroscience, Developmental and Regenerative Biology, University of Texas, San Antonio
2016 – Present	Full Professor Department of Psychology University of Texas, San Antonio
2011 – 2016	Associate Professor Department of Psychology, Program in Neuroscience, Tulane Center for Aging Tulane University
2004 – 2011	Assistant Professor Department of Psychology, Program in Neuroscience, Tulane Center for Aging (2007) Tulane University
2010 – Present	Adjunct Professor Louisiana State University, Life Course and Aging Center

2005 – 2008 Visiting Research Professor
Department of Neurology
University of California, Irvine

2001 – 2004 Assistant Researcher
Institute for Brain Aging and Dementia
University of California, Irvine

Research Interests

- spatial cognition
- attention and working memory
- perception and action in the auditory system
- normal aging and age-related cognitive disorders

Technical Experience

- Event-related potentials and EEG recording in humans
- Sleep polysomnography
- Transcranial magnetic and electrical stimulation in humans
- Eye tracking and various psychophysiological methods in humans
- Extracellular single-unit recording in freely behaving rats
- Stereotaxic surgery, neurotoxic lesions, and electrode implantation

Membership in Professional Societies and Service

- Association for Research in Otolaryngology (ARO)
- Psychonomic Society, Fellow (2017)
- Cognitive Neuroscience Society (CNS)
- Auditory Perception and Cognition Society (APCAM)
- International Evoked Response Audiometry Study group
- Editorial Boards: Clinical Neurophysiology (2011-2017); Journal of Psychophysiology, Action Editor (2011-Present); Intelligence & Cognitive Abilities (2026-Present), Associate Editor.
- Member NIH special emphasis panel (ZRG1 ETTN-K 10), June 2012, October 2012, February 2013, June 2015, November 2017
- Member NIH Sensory and Motor Neuroscience, Cognition and Perception Fellowship Study Section (ZRG1 F02B-D), October 2013, February 2014, 2015, 2016
- Member NIH special emphasis panel ZRG1 IFCN-Q 55), October 2014
- Member NIH special emphasis panel ZRG1 ETTN-G (12), March 2018
- Member NIH special emphasis panel ZRG1 IFCN-Y (03), February 2018
- Member NIH special emphasis panel ZAT1 SM (60), March 2021
- NIDCD reviewer for NIH loan repayment program, March 2019, 2020, 2021
- AD hoc member NIH: Mechanisms of Sensory, Perceptual, and Cognitive Processes (SPC) Study Section, June 2014. February 2017; Cognition and Perception Study Section (CP), October 2016, June 2019; NIDCD Communication Disorders Review Committee, October 2020, February 2022, June 2022, February 2023, June 2023, Feb 2024, Feb 2025

- Member NIH ZAT1 Promoting Research on Music and Health, February 2021, October 2021, February 2022
- Member NIH NCCIH ZAT1 SH(10), April 2023
- Member, NIA Program Projects Panel, September 2023, October 2024
- NSF Engineering Directorate panel, July 2020
- Veterans Affairs (VA) SpiRE program
- International grant reviews: Swiss Science Foundation; Deutsche Forschungsgemeinschaft, (DFG); Technology Foundation STW, Netherlands, National Science Centre, Poland;

Grants and Contracts

Current

NIH (2025-2029). Principal Investigator. Testing mechanisms for relations between high-level cognition and perception in normal aging. $1,874,969 total costs.

DoD CDMRP (2024-2027). Principal Investigator. Targeted Auditory Plasticity Training to Improve Central Hearing in Mild TBI. $750,000 total costs.

DoD CDMRP (2024-2028). Co-Investigator. Executive Functions, Brain Games, and Brain Stimulation: An RCT for Mild TBI. $2,200,000 total costs.

DoD MOMRP (2021-2026). Principal Investigator. Improving hearing protection with neuroplasticity. $615,786 total costs.

Completed

San Antonio Medical Foundation (2021-2022). Co-Investigator (Clark, PI). Biometric Collaborative in Radiology and Artificial Intelligence. $183,976 total costs.

NIH (2015-2021). Principal Investigator. Shifting auditory spatial attention: cognitive and neural mechanisms. $1,378,657 total costs.

Mitre Corp. (2020-2021). Principal Investigator. Cyber Security Usability Assessment. $100,000 total costs.

NIH (2018-2021). Principal Investigator. Development of brain-computer interface methods to influence brain dynamics in stuttering. $387,172 total costs.

NIH (2012-2017). COBRE (Jazwinski, PI). Principal Investigator, Project 2. Spatial attention networks and cognitive aging. $1,117,695 total costs.

NSF (2015-2016). (Calhoun, PI). Faculty research mentor. Developmental Chronnecto-Genomics (Dev-CoG): A Next Generation Framework for Quantifying Brain Dynamics and Related Genetic Factors in Childhood. $2,946,389 total costs.

NSF (2009-2014). Principal Investigator. "CAREER: Cortical processing of auditory

spatial information". $768,443 total costs.

Tulane Research Enhancement Fund (2008-2010). Principal investigator. "Cognition and brain function in healthy aging". $16,800 total costs.

Louisiana State University (2008-2009). Co-Investigator (Richter, PI). Cognitive effects of electrical stimulation of the subthalamic nucleus. $50,000 total costs.

NIH R01 (2002-2006). Co-investigator. "Cognitive and neurophysiological changes in mild cognitive impairment". $1,053,530 total costs.

UC Irvine Health Sciences Research Imaging Center (2002). Principal Investigator. "Functional neuroanatomy of episodic memory in mild cognitive impairment". $4,000 total costs.

Courses

Undergraduate:

- Cognitive Neuroscience (Tulane, PSYC/NSCI 438/638)
- Cognitive Neuroscience lab (Tulane, PSYC/NSCI 658)
- Cognitive Neuroscience (UT San Antonio, PSY 4343)
- Reason and Intuition (UT San Antonio, PSYC 4953)
- Physiological Psychology (UT San Antonio, PSYC 4183)

Graduate:

- Cognitive Neuroscience (Tulane, PSYC 703)
- Cognitive Psychology (Tulane, PSYC 707)
- Sensory and Motor Systems (Tulane, PSYC 708)
- Co-Director of Interdisciplinary Seminar on Aging (Tulane, AGST 702, 704)
- Human Cognition (UT San Antonio, PSY 5343)
- Applied Cognitive Psychology (UT San Antonio, PSY 7133)
- Biopsychology (UT San Antonio, PSY 7103)

Student thesis advising

- Kate Yurgil Psychology M.S. 2008, Ph.D. 2010
- Laura Manning Psychology M.S. 2007, Ph.D. 2011
- Lauren Stowe Psychology Ph.D. 2011
- Jeremy Nelson Neuroscience Ph.D. 2012
- Carolyn Pauker Neuroscience Ph.D. 2014
- Debra Karhson Neuroscience Ph.D. 2014
- Sandeepa Sur Aging Studies Ph.D. 2016
- Max Anderson Neuroscience M.S. 2014, Ph.D. 2018
- Lisa Chinn Psychology M.S. 2016. Ph.D. 2019 (co-advised)
- John Meyers Neuroscience M.S. 2014, Ph.D. 2019
- Andor Bodnar Psychology Ph.D. 2021
- Lemira Esparza Psychology M.S. 2022, Ph.D. 2024

- Corrin Stines Psychology Ph.D. 2026
- Stefanie Rader Neuroscience M.S. 2006
- John Holmes Psychology M.S. 2009
- Kelsey Ward Neuroscience: M.S. 2010
- Chris Holdgraf Neuroscience M.S. 2010
- Michael Girgis Psychology M.S. 2013
- Xavier Readus Neuroscience M.S. 2013
- Felicia Obialo Neuroscience M.S. 2015
- Jenna Winston Neuroscience M.S. 2016
- Justin Randall Psychology M.S. 2019
- Beatrice Ruiz Psychology M.S. 2021
- Caleb Jones Psychology M.S. 2026
- Hilal Aslan Psychology M.S. 2026
- Carolyn Pauker Neuroscience B.S. 2006, undergraduate honors thesis - recipient of Arnold Gerall Prize in Neuroscience
- Steven Bright Neuroscience B.S. 2007, undergraduate honors thesis - recipient of Arnold Gerall Prize in Neuroscience
- Thomas Eskew Psychology B.S. 2009, undergraduate honors thesis - recipient of Rosa Cahn Hartman prize in Psychology
- Michael Seay Neuroscience B.S. 2012, undergraduate honors thesis - recipient of Arnold Gerall prize in Psychology
- Carly Rosen Neuroscience B.S. 2016, undergraduate honors thesis - recipient of Arnold Gerall prize in Psychology
- Aleya Shedd Biology B.S. 2020, undergraduate honors thesis

Administrative experience

Department of Psychology, Tulane University
- Graduate training committee (2004 – 2015)
- 4+1 Admissions, Chair (2012 – 2016)
- Colloquium committee (2006 – 2011)
- Academic appeals committee (2007 – 2011)
- Various search committees

Program in Neuroscience, Tulane University
- Steering committee (2011 – 2016)

Tulane Center for Aging
- Colloquium committee (2008 – 2010)
- Seminar series coordinator (2008 – 2012)

School of Science and Engineering, Tulane University
- Grievance committee (2009 – 2011)
- Graduate Studies committee (2015 – 2016)

University of Texas, San Antonio

- Committee: Conflict of Interest in Research & Intellectual Property (2016 – 2022)
- Graduate Admissions Committee (2016 – 2023)
- Departmental Faculty Review Advisory Committee (DFRAC) chair (2020-Present)
- Various search and advisory committees

Publications* *Engineering and AI conference papers in next section

Golob E.J., Jones C.A., Stines C.A. (submitted). Testing the impact of cognitive control on workload and mental fatigue

Esparza L.V., Templer M.I.R., Golob E.J. (submitted). Statistical learning influences auditory spatial representational momentum,

Golob E.J., Olayo R.C., Sears D.A., Mock J.R. (submitted). Cognitive heuristics influence self-reported listening effort.

Mock J.R., Myers J.C., Irani F., Robbins K.A., Golob E.J. (submitted). Prefrontal activity during speech preparation distinguishes upcoming fluent and stuttered speech in adults who stutter.

Golob E.J., Billman L.W., Mock J.R., Akusu D.O., Vaughn R.D. (2026). Behavioral and biological measures of website usability as a function of violating Nielsen's heuristics. *IEEE Transactions on Human-Machine Systems*.

Esparza L.V., Nelson J.T., Mock J.R., Spear S.A., Golob E.J. (2026). Impact of brief training on spatial hearing and motion perception while wearing hearing protection. *Military Medicine*.

Golob E.J., Nelson J.T., Piedra E.T., Adams J.K., Esquivel C.R., Spear S.A., Mock J.R. (2026). Brief training can reduce spatial hearing deficits when wearing hearing protection. *Journal of Neurophysiology*.

Martinez S., Ramirez-Tamayo C., Faruqui S.H.A., Clark K.L., Alaeddini A., Czarnek N., Aggarwal A., Emamzadeh S., Mock J.R., Golob E.J. (2025). Discrimination of radiologists utilizing eye-tracking technology and machine learning: A case study. *JMIR Formative Research*.

Bodnár A.L., Mock J.R., Golob E.J. (2025). Front-back asymmetries in endogenous auditory spatial attention. *Attention, perception, and psychophysics*. 87(2): 511-530. doi: 10.3758/s13414-024-02995-3. PMID: 39681824

Du Y., Wei G-X; He Y., Ning H., Roberts P., Golob E., Yin Z., Subramanian S. (2024). Current evidence of the application of music in tai chi exercise: A scoping review. Asian/Pacific Island Nursing Journal.

Golob E.J., Olayo R.C., Brown D.M.Y., Mock J.R. (2024). Relations among multiple self-reported dimensions of listening effort in response to an auditory psychomotor

vigilance task. *Journal of Speech, Language, and Hearing Research*. PMID: 39116317

Ramirez-Tamayo C., Faruqui S. H. A., Martinez S., Brisco A., Czarnek N., Alaeddini A., Mock J.R., Golob E.J., Clark K.L. (2024). Incorporation of Eye-Tracking and Gaze Feedback to Characterize and Improve Radiologist Search Patterns of Chest X-rays: A Randomized Controlled Clinical Trial. *Journal of the American College of Radiology.* PMID: 38369046

Golob E.J., Nelson J.T., Walasek J.A., Piedra E.T., Mock J.R., Adams J.K., Esquivel C.R., Spear S.A. (2024). Training to improve spatial hearing and situation awareness when wearing hearing protection. *Military Medicine*, e306–e312. PMID: 37715688

Ruiz B.N., Esparza L.V., Mock J.R., Golob E.J. (2023). Creativity and Attention: An individual difference approach. *Creativity Research Journal*. doi.org/10.1080/10400419.2023.2291631

Irani F, Mock J.R., Myers J.C., Johnson J., Golob E.J. (2023). A novel non-word speech preparation task to increase stutter rate in experimental settings: A longitudinal study. *Journal of Communication Disorders*. PMID: 37331327

Das A, Mock J.R., Irani F., Huang Y, Najafirad P, Golob E.J. (2022). Multimodal explainable AI predicts upcoming speech behavior in adults who stutter. *Frontiers in Neuroscience*.

Myers J.C., Chinn L.K, Sur S., Golob E.J. (2021). Widespread theta coherence during spatial cognitive control. *Neuropsychologia*. doi: 10.1016/j.neuropsychologia.2021.107979 PMID: 34339719

Golob E.J, Nelson J.T., Scheuerman J., Venable K.B., Mock J.R. (2021). Auditory spatial attention gradients and cognitive control as a function of vigilance. *Psychophysiology*. doi: 10.1111/psyp.13903 PMID: 34342887

Anderson M.T., Kaminski N.R., Mock J.R., Golob E.J. (2021). Numbers in short-term memory bias auditory spatial perception. *Journal of Experimental Psychology: Human Perception and Performance*, 47(4): 616–633. doi: 10.1037/xhp0000903. PMID: 33983793

Cherry K.E., Elliott E.M., Golob E.J., Brown J.S., Kim S, Jazwinski S.M. (2021). Strategic Encoding and Retrieval Processes in Verbal Recall among Older Adults. *British Journal of Developmental Psychology*, 39(2): 252-268.

Montanez R, Golob E, Xu S (2020). Human cognition through the lens of social engineering cyberattacks. *Frontiers in Psychology, 11*. doi.org/10.3389/fpsyg.2020.01755

Sur S. & Golob E.J. (2020). Neural correlates of auditory sensory memory dynamics in the aging brain. *Neurobiology of Aging*, 88: 128-136. doi: 10.1016/j.neurobiolaging.2019.12.020. PMID: 32035848

Myers J.C., Mock J.R., Golob E.J. (2020). Sensorimotor Integration Can Enhance Auditory Perception. *Scientific Reports,* 10:1496. doi: 10.1038/s41598-020-58447-z PMID: 32001755

Golob E.J. & Mock J.R. (2020). Dynamics of auditory spatial attention gradients. *Cognition*, 194. doi.org/10.1016/j.cognition.2019.104058 PMID: 31494432

Golob E. & Mock J.R. (2019). Auditory spatial attention capture, disengagement, and response selection in normal aging. *Attention, perception, and psychophysics*, 81(1): 270-280.

Eskine K.E., Anderson A.E., Sullivan M., Golob E.J. (2018). Effects of music listening on creative cognition and semantic memory retrieval. *Psychology of Music*.

Chinn L.K., Pauker C.S., Golob E.J. (2018). Dynamics of cognitive control and midline theta activity across multiple timescales. *Neuropsychologia*. PMID: 29410123

Lutfi-Proctor D.A., Elliott E.M., Golob E.J. (2018). Spatial integration and the underlying mechanisms of cross-modality interference. *Journal of Cognition*, 1(1): p5, 1–15.

Golob E.J., Lewald J., Getzmann S., Mock J.R. (2017). Numerical value biases sound localization. *Scientific Reports, 7*. PMID: 29222526

Golob E.J., Winston J., Mock J.R. (2017). Impact of verbal and spatial short-term memory load on auditory spatial attention gradients. *Frontiers in Neuroscience, November 6*. PMID: 29218024

Karhson D. S. & Golob E.J. (2016). Atypical sensory reactivity influence on auditory attentional control in adults with autism spectrum disorders. *Autism Research*, 9(10): 1079-1092. PMID: 26778164

Golob E.J., Lewald J., Jungilligens J., Getzmann S. (2016). Interaction of number magnitude and stimulus position in auditory localization of speech. *Perception*, 45(1-2): 165-179. PMID: 26562857

Getzmann S., Golob E.J., Wascher E. (2016). Focused and divided attention in a simulated cocktail-party situation: ERP evidence from younger and older adults. *Neurobiology of Aging*, 41: 138-149. PMID: 27103527

Mock J.R., Foundas, A.L., & Golob E.J. (2016). Cortical activity during cued

picture naming predicts individual differences in stuttering severity. *Clinical Neurophysiology*, 127: 3093–3101. PMID: 27472545

Mock J.R., Seay M.J., Charney D.R., Holmes J.L., Golob E.J. (2015). Rapid cortical dynamics associated with auditory spatial attention gradients. *Frontiers in Neuroscience, June 2*. PMID: 26082679

Mock J.R., Foundas, A.L., & Golob E.J. (2015). Speech preparation in adults with persistent developmental stuttering. *Brain and Language*, 149: 97–105. PMID: 26197258

Karhson D. S. & Golob E.J. (2015). The role of right inferior parietal cortex in auditory spatial attention: A repetitive transcranial magnetic stimulation study. *PLOS One*. 10(12):e0144221. PMID: 26636333

Nelson J.T., McKinley R.A., Golob E.J., Warm J.S., Parasuraman R. (2014). Enhancing vigilance in operators with prefrontal cortex transcranial direct current stimulation (tDCS). *Neuroimage*, 85: 909-917. PMID: 23235272

Yurgil K.A. & Golob E.J. (2013). Cortical potentials in an auditory oddball task reflect individual differences in working memory capacity. *Psychophysiology*. 50(12): 1263-1274. PMID: 24016201

Stowe L.M. & Golob E.J. (2013). Evidence that the Lombard effect is frequency -specific in humans. *Journal of the Acoustical Society of America*, 134(1): 640-7 PMID: 23862838. PMC3985863

Foundas A.L., Mock J.R., Corey D.M., Golob E.J., Conture E.G. (2013). The speecheasy device in stuttering: Left ear-placement enhances fluency. *Brain and Language*, 26(2): 141-150. PMID: 23712191

Mock J.R., Foundas A.L., Golob E.J. (2011). Modulation of sensory and motor cortex activity during speech preparation: an ERP and TMS study. *European Journal of Neuroscience*, 33(5):1001-1011. PMID: 21261757

Golob E.J. & Holmes J.L. (2011). Cortical mechanisms of auditory spatial attention in a target detection task. *Brain Research*. 1384: 128-139. PMID: 21295017

Mock J.R., Foundas A.L., Golob E.J. (2011). Selective influence of auditory distractors on motor cortex excitability. *Neuroreport*, 22(16): 830-833. PMID: 21904250

Yurgil K. & Golob E.J. (2010). Neural activity before and after conscious perception of a multistable stimulus. *Neuropsychologia*, 48(10): 2952-2958. PMID: 20542046

Irimajiri R., Golob E.J., Starr A (2010). ApoE genotype and auditory cortical sensory

and cognitive potentials in healthy older females. *Neurobiology of Aging,* 31(10): 1799-1804. PMID: 18976833

Golob E.J., Ringman J.M., Irimajiri R., Bright S., Schaffer B., Medina L.D., Starr A (2009). Cortical event-related potentials in preclinical familial Alzheimer's disease. *Neurology*, 73(20): 1649-1655. PMID: 19917987

Wang H., Golob E., Bert A., Nie K, Chu Y., Dick M, Mandelkern M., Su MY (2009). Alterations in regional brain volume and individual MRI-guided perfusion in mild cognitive impairment correlated with memory function. *Journal of Geriatric Psychiatry and Neurology,* 22(1): 35-45. PMID: 19150973

Rader S.K., Holmes, J.L., Golob E.J. (2008). Auditory event-related potentials during a spatial working memory task. *Clinical Neurophysiology,* 119: 1176-1189. PMID: 18313978

Golob E.J., Irimajiri R., Starr A. (2007). Auditory cortical activity in amnestic mild cognitive impairment: relationship to subtype and conversion to dementia. *Brain*, 130(3): 740-52.

Irimajiri R., Michalewski H.J., E.J. Golob, Starr A. (2007). Cholinesterase inhibitors affect somatosensory but not visual cortical activities in amnestic mild cognitive impairment. *Brain Research*, 1145:108-16.

Wang H., Golob E.J., Su M.Y. (2006). Vascular volume and blood-brain barrier permeability in hippocampus and cerebellum measured with dynamic contrast -enhanced MRI in mild cognitive impairment. *Journal of Magnetic Resonance Imaging*, 24(3): 695-700.

Bennett I.J., Golob E.J., Parker E.S., Starr A. (2006). Memory evaluation in mild cognitive impairment using recall and recognition tasks. *Journal of Clinical and Experimental Neuropsychology*, 28(8): 1408-1422.

Scalise A., Pittaro-Cadore I., Golob E.J., Gigli G.L. (2006). Absence of postexercise and delayed facilitation of motor cortex excitability in restless legs syndrome: evidence of altered cortical plasticity? *Sleep*, 29(6): 770-775.

Golob E.J., Ovasapyan V., Starr A. (2005). Event-related potentials accompanying motor preparation and stimulus expectancy in the young, young-old and oldest-old. *Neurobiology of Aging,* 26(4): 531-542

Bassett J.P., Zugaro M.B., Muir G.M., Golob E.J., Wiener S.I., Muller R.U., Taube J.S. (2005). Passive movements of the head do not abolish anticipatory firing properties of head direction cells. *Journal of Neurophysiology*, 93(3): 1304-1316.

Irimajiri R., Golob E.J., Starr A. (2005). Auditory brainstem, middle- and long-latency

evoked potentials in mild cognitive impairment. *Clinical Neurophysiology*, 116(8): 1918-29.

Golob E.J. & Starr A. (2004). Serial position effects in auditory event-related potentials during working memory retrieval. *Journal of Cognitive Neuroscience,* 16(1): 40-52.

Golob E.J. & Starr A. (2004). Visual encoding differentially affects event-related potentials during working memory retrieval. *Psychophysiology*, 41(2): 186-192.

Bennett I.J., Golob E.J., Starr A. (2004). Age-related differences in auditory event -related potentials during a cued attention task. *Clinical Neurophysiology*, 115(11): 2602-2615.

Stackman R.W., Golob E.J., Bassett J. P., Taube J.S. (2003). Passive transport disrupts directional path integration by rat head direction cells. *Journal of Neurophysiology*, 90(5): 2862-2874.

Golob E.J., Pratt H., Starr A. (2002). Preparatory slow potentials and event-related potentials in an auditory cued attention task. *Clinical Neurophysiology*, 113(10): 1544-1557.

Golob E.J., Johnson J.K., Starr A. (2002). Auditory event-related potentials during target detection are abnormal in mild cognitive impairment. *Clinical Neurophysiology*, 113(1): 151-161.

Golob E.J. & Taube J.S. (2002). Influence of aversive reinforcement on reorientation in a spatial working memory task. *Behavioural Brain Research*, 136(1): 309-316.

Golob E.J., Miranda G.G., Johnson J.K., Starr A. (2001). Sensory cortical interactions in aging, mild cognitive impairment, and Alzheimer's disease. *Neurobiology of Aging,* 22(5): 755-763.

Golob E.J., Stackman R.W., Wong A.C., & Taube J.S. (2001). On the behavioral significance of head direction cells: Neural and behavioral dynamics on spatial reference and working memory tasks. *Behavioral Neuroscience*, 115(2): 285-304.

Golob E.J. & Starr A. (2000). Age-related qualitative differences in auditory cortex responsiveness as a function of memory load. *Clinical Neurophysiology,* 111(12): 2234-2244.

Golob E.J. & Starr A. (2000). Effects of stimulus sequence on event-related potentials and reaction time during target detection in Alzheimer's disease. *Clinical Neurophysiology*, 111(8): 1438-1449.

Golob E.J. & Taube J.S. (1999). Head direction cells in rats with hippocampal or

overlying neocortical lesions: Evidence for impaired angular path integration. *Journal of Neuroscience*, 19(16): 7198-7211.

Golob E.J. & Taube J.S. (1998). Recordings of postsubiculum head direction cells following lesions of the laterodorsal thalamic nucleus. *Brain Research*, 780(1): 9-19.

Goodridge J.P., Dudchenko P.A., Worboys K.A., Golob E.J., & Taube J.S. (1998). Cue control and head direction cells. *Behavioral Neuroscience*, 112(4): 749-761.

Golob E.J. & Taube J.S. (1997). Head direction cells and episodic spatial information in rats without a hippocampus. *Proceedings of the National Academy of Sciences, U.S.A.,* 94, 7645-7650.

Taube J.S. & Golob E.J. (1997). Computational functions of the hippocampus: Does it encode all episodic memories? *Molecular Psychiatry,* 2(6), 442-445.

Taube J.S., Goodridge J.P., Golob E.J., Dudchenko P.A., & Stackman R.W. (1996). Processing the head direction cell signal: A review and commentary. *Brain Research Bulletin,* 40(5-6), 477-484.

Peer-reviewed conference papers, book chapters, & technical reports

Das A., Mock J.R., Chacon H., Irani F., Huang Y., Golob E.J., Najafirad P (2021). Interpretable self-supervised facial micro-expression learning to predict cognitive state and neurological disorders. *AAAI Conference on Artificial Intelligence-21*.

Liu Z, Mock J, Huang Y, Golob E (2019). Predicting Auditory Spatial Attention from EEG using Single- and Multi-task Convolutional Neural Networks. *IEEE International Conference on Systems, Man, and Cybernetics.*

Panwar S, Rad P, Quarles J, Golob E, Huang Y (2019). A Semi-Supervised Wasserstein Generative Adversarial Network for Classifying Driving Fatigue from EEG signals. *IEEE International Conference on Systems, Man, and Cybernetics.*

Mock J., Myers J., Robbins K., Irani F., Golob E.J. (2019). Phase synchrony between brain regions predicts disfluent brain states in people who stutter. *American Speech-Language-Hearing Association (ASHA) annual convention*.

Valecha R, Gonzalez A, Mock J.R., Golob E.J., Rao H.R. (2019). Investigating phishing susceptibility – An analysis of neural Measures. *Neuro-Information Systems Retreat 2019.* in *Information Systems and Neuroscience.* Editors: F. Davis, R. Riedl, J. vom Brocke, P.M. Léger, A. Randolph, T. Fischer.

Scheuerman J, Venable K.B., Anderson M.T., Golob E.J. (2019). Modeling Spatial Auditory Attention in ACT-R: A Constraint-Based Approach. *Association for the Advancement of Artificial Intelligence conference.*

Myers J.C., Mock J.R., Irani F., Robbins K.A., Golob E.J. (2018). Single-trial classification of disfluent brain states in adults who stutter. *IEEE International Conference on Systems, Man, and Cybernetics.*

Chinn L.C. & Golob E.J. (2017). Attention Allocation Dynamically Responds to Context. *7th Joint IEEE International Conference on Development and Learning*.

Scheuerman J, Venable K.B., Anderson M.T., Golob E.J. (2017). Modeling spatial auditory attention: handling equiprobable attended locations. *Cognition and Artificial Intelligence for Human-Centred Design*.

Golob E.J., Venable K.B., Anderson M.T., Scheuerman J. (2017). Computational modeling of auditory spatial attention. *Annual Conference of the Cognitive Science Society*.

Mock J.R., Irani F., Golob E.J. (2017). Pre-speech brain activity associated with fluent and stuttered speech. *American Speech-Language-Hearing Association annual Convention.*

Golob E.J., Venable K.B., Anderson M.T., Benzell J.A., Scheuerman J. (2016). Modelling auditory spatial attention with constraints. *International Workshop on Artificial Intelligence and Cognition, 4th edition*.

Dorr B, Galescu L, Golob E.J., Venable K.B., Wilks Y (2015). Companion-based Ambient Robust Intelligence (CARING). *Association for the Advancement of Artificial Intelligence, 29th Annual Meeting*.

Golob, E.J (2015). Review of "Auditory event-related potentials to words: Implications for Audiologists", Jerger, Martin, Fitzharris. *International Journal of Audiology*.

Golob E.J., Pratt H., Starr A. (2009). Learning and memory in normal aging: Event -related potentials, EEG, and reaction time. pp. 107-201. in *New Encyclopedia of Neuroscience*. Larry R. Squire (Editor-in-Chief). Elsevier.

Smith L.M. & Golob E.J (2008). Assessment of stimulus-feature selectivity in self -monitoring using the Lombard effect. *American Speech-Language-Hearing Association*.

Starr A. & Golob E.J. (2006). Cognitive Factors Modulating Auditory Cortical Potentials. in *Auditory Evoked Potentials: Basic Principles and Clinical Application*. Robert Burkhard, Manny Don, Jos Eggermont (Eds.). Lippincott Williams & Wilkins.

Blair H.T., Sharp P.E., Cho J., Goodridge J.P., Stackman R.W., Golob E.J., Taube J.S. (1998). Path integration in the rat head-direction circuit. In: *Advances in Neural*

Information Processing Systems. Vol. 10. D.S. Touretzky, M.C. Mozer, M.E. Hasselmo (Eds.). MIT Press.

Abstracts

Aslan H. & Golob E. J. (2027). Processing depth and subjective listening effort during speech perception in noise. *Association for Research in Otolaryngology (ARO)*, Midwinter meeting.

Golob E.J., Aslan H., Howard L., Apicella G., Esparza L., Mock J.R. (2027). Central hearing and motor function are strong predictors of attention control. *Association for Research in Otolaryngology (ARO)*, Midwinter meeting.

Golob E.J., Olayo R. C., Howard L. K., Aslan H, Mock J. R. (2026). Impact of decision -making processes on multiple dimensions of subjective listening effort. *Psychonomic Society*.

Esparza L. V., Sims R. A., Golob E. J. (2026). Testing Perceptual and Motor contributions to Auditory Representational Momentum. *Psychonomic Society*.

Aslan H. & Golob E. J. (2026). The role of central auditory processing in speech perception and subjective listening effort. *Psychonomic Society*.

Howard L. K. & Golob, E. J. (2026). Conscious experience: The impact of manipulating listening effort demand and workload on cognitive fatigue and mood. *Psychonomic Society*.

Stines C., Randez A., Calderon L., Mock J. R. Golob E. J. (2026). Neurophysiology of the Ventral Attention Network: Modulating Vigilance Performance with tACS. *Cognitive Neuroscience Society*.

Forche J., Olvera R., Swan A., Lee S., Seitz A. Laure M, Carillo A., Mock J., Hale W., Moring J., Wells M., Wright A., Salinas M., Norman R., Golob E. (2026). Hearing Handicap in Veterans With mTBI: Baseline Findings and Change After Speech-in-Noise Training. *AIM Conference*.

Forche J, Olvera R, Swan A, Lee S, Norman R, Seitz A, Laure M, Carillo A, Mock J, Hale W, Morring J, Wells M, Wright A, Salinas M, Golob E (2026). Targeted Auditory Plasticity (TAP) Training to Improve Central Hearing and Communication in Veterans With mTBI. *UT System Trauma Research Symposium*.

Torres A.D., Esparza L.V., Golob E.J. (2025). Using Illusions of Auditory Motion to Locate and Interact with Moving Sounds. ARMADILLO Conference.

Templer M.I.R., Esparza L.V., Golob E.J. (2025). Examining Effects of Absolute vs. Relative Stimulus Duration on Spatial Localization of Moving Sounds. *Psychonomic Society*.

Golob E.J., Nelson J.T., Piedra E.T., Adams J.K., Esquivel C.R., Spear S.A., Mock J.R. (2025). Brief training can reduce spatial hearing deficits when wearing hearing Protection. *Military Health Systems Research Conference*.

Stines-Ringling C, Castañeda R. O., Calderon L., Randez A., Fernandez J., Mock J. R., Golob E. J. (2025). Investigating the Relationship Between the Ventral Attention Network, Vigilance, and Fatigue Utilizing Neurophysiological and Neurostimulation Methods: An Electroencephalogram (EEG) and Transcranial Alternating Current Stimulation (tACS) Study. *Cognitive Neuroscience Society*.

Templer M. I. R., Esparza L.V., Golob E.J. (2024). The effect of attention and expectation on spatial localization of moving sounds. *Psychonomic Society*.

Castañeda R., Sears D.A., Mock J.R., Golob E.J. (2024). Listening effort judgments are affected by a memory heuristic: the peak-end rule. *Psychonomic Society*.

Esparza L.V., Mock J.R., Golob E.J. (2023). Effects of spatial attention on localization of moving sounds. *Association for Research in Otolaryngology*, Midwinter Meeting.

Castañeda R., Mock J.R. Golob E.J. (2023). Investigating elements of listening effort: relations among multiple dimensions and peak-end cognitive bias. *Psychonomic Society*.

Esparza L.V., Mock J.R., Golob E.J. (2022). The effect of velocity, duration, and direction on spatial localization of moving sounds. *Association for Research in Otolaryngology*, Midwinter Meeting.

Ruiz B.N., Esparza L.V., Mock J.R., Coyle T.R., Golob E.J. (2022). Creativity and attention control: an individual difference approach. *Annual Armadillo Psychology Conference*.

Spear S.L., Mock J.R., Walasek J.A., Piedra E.T., Esquivel C.R., Golob E.J. (2022). Increasing hearing protection device compliance through training. *8th Workshop on Battlefield Acoustics & NATO HFM-285 meeting*.

Andor L. Bodnar, Jeffrey R. Mock, Edward J. Golob (2022). EEG activation patterns of auditory spatial attention in the front vs. back hemispace. *Society for Neuroscience*, annual meeting.

Castañeda R., Mock J.R. Golob E.J. (2022). Investigating elements of listening effort: Relations among multiple dimensions. *Psychonomic Society*.

Bodnar A.L., Mock J.R., Golob E.J. (2020). Auditory spatial attention to the front vs. back hemispace. *Association for Research in Otolaryngology*, Midwinter Meeting.

Lemira V. Esparza, Jeffrey R. Mock, Edward J. Golob (2020). The effect of hemispace, velocity, and direction on spatial localization of moving sounds. *Association for Research in Otolaryngology*, Midwinter Meeting.

Ruiz B., Mock J.R., & Golob E.J (2020). Attention and Creativity: An Individual Differences Approach. *Psychonomic Society*.

Alex N. Lawriw, Jeffrey R. Mock, Edward J. Golob (2020). Contribution of Bottom-up Processes to Auditory Spatial Attention Gradients. *Psychonomic Society*.

Mock J.R., Rivera G., Golob E.J. (2019). Auditory Spatial Attention over 360°. *Association for Research in Otolaryngology*, Midwinter Meeting.

Myers J.C., Mock J. R., Golob E. J. (2018). Auditory-motor learning drives motor activation in subsequent auditory processing. *Cognitive Neuroscience Society*.

Chinn L.K., Myers J.C., Golob E.J. (2018). Theta phase synchrony in a spatial cognitive control network. *Society for Neuroscience*, 44.

Myers J.C., Mock J.R., Golob E.J. (2018). Neural oscillations predict stuttering disfluency on a single trial basis. *Society for Neuroscience*, 44.

Scheuerman J., Anderson M.T., Mock J.R., Venable K.B, Golob E.J. (2018). Computational Model of Spatial Auditory Attention in ACT-R. *Cognitive Science Society.*

Golob E.J. & Mock J.R. (2018). Mismatch negativity as an index of auditory spatial attention gradients. *Association for Research in Otolaryngology*, ARO Annual Midwinter Meeting.

Valecha R., Mock J., Golob, E.J., Rao H.R. (2017). An investigation of unconscious processing of phishing messages – Towards developing an antidote to phishing victimization. *7th Annual Interdisciplinary Symposium on Decisions Neuroscience.*

Myers J., Mock J.R., Golob E.J. (2017). Feedforward motor enhancement of auditory sensory thresholds. *Cognitive Neuroscience Society*.

Golob E.J., Winston J, Mock J.R. (2017). Impact of verbal and spatial short-term memory load on auditory spatial attention gradients. *Association for Research in Otolaryngology*, ARO Annual Midwinter Meeting.

Golob E.J., Scheuerman J., Anderson M.T., Mock J.R., Venable K.B. (2016). Computational modeling of auditory spatial attention. *Psychonomic Society*.

Anderson MT, Scheuerman J, Benzell J.A., Venable K.B., & Golob E.J (2016).

Modeling auditory spatial attention with AI constraint-based approaches. *Cognitive Neuroscience Society*.

Mock J.R., Charney D.R., Holmes J.L., & Golob E.J. (2016). Auditory spatial attention control in the aging brain. *Cognitive Neuroscience Society*.

Chinn L.K., Pauker C.S, & Golob E.J. (2016). Timescales of cognitive control during an auditory Simon Task. *Cognitive Neuroscience Society*.

Golob E.J. & Mock J.R. (2016). Dynamics of auditory spatial attention gradients. *Association for Research in Otolaryngology*, ARO Annual Midwinter Meeting.

Chinn L.K. & Golob E.J. (2015). The impact of musical experience on cognitive control during an auditory Simon task. *Association for Psychological Science Convention*.

Anderson M.T. & Golob E.J. (2015). Numbers retained in short-term memory bias auditory spatial attention. *Association for Psychological Science Convention*.

Anderson, A, Eskine K, Golob E. (2015). Effects of music listening on creativity and semantic memory retrieval. *Association for Psychological Science Convention.*

Myers J.C., Mock J.R., & Golob E.J. (2014). Effects of speech motor preparation on auditory perception. *Midwest Auditory Research Conference*.

Seay M.J., Mock J.R., & Golob E.J. (2014). Cortical representations of absolute and relative sound locations during an auditory spatial attention task. *Annual Meeting of the Society for Neuroscience.*

Karhson D. & Golob E.J. (2014). Neural Correlates of cognitive control and attentional orienting in adults with Autism Spectrum Disorders. *International Meeting for Autism Research*.

Sur S. & Golob E.J. (2014). Neural correlates of auditory attentional control in the Simon task. *Cognitive Aging Conference*.

Karhson D. & Golob E.J. (2013). Perceptual load modulates neural correlates of auditory attention in Autism Spectrum Disorders. *Cognitive Neuroscience Society*.

Charney D.R. & Golob E.J. (2012). Individual differences as a function of normal aging and working memory capacity. *Cognitive Neuroscience Society*.

Mock J.R., Foundas A.L., Golob E.J. (2012). Speech Preparation in adults who stutter. *Cognitive Neuroscience Society*.

Mock J.R., Foundas A.L., Golob E.J. (2012). Auditory responsiveness during a delayed naming paradigm in adults who stutter. *American Academy of Neurology*.

Cherry K.E., Golob E.J., Elliott E.M., Silva Brown J., Yu Q., Volaufova J., Jazwinski S.M. (2011). Strategic encoding and retrieval processes in verbal recall among oldest-old adults. *The Gerontologist*, 51, 128-129.

Pauker C.S. & Golob E.J. (2011). Effects of global probabilities on cortical processing during an auditory Simon task. *Cognitive Neuroscience Society.*

Foundas A.L., Mock J.R., Corey D.M., Golob E.J., Conture E. (2011) Altered Auditory Feedback in Developmental Stuttering: Effects of Attention. Neurology 76: A506. *American Academy of Neurology*.

Mock J.R., Foundas A.L., Golob E.J. (2010). Influence of sound location and handedness on motor-evoked potentials. *29th International Congress of Clinical Neurophysiology*.

Karhson D.S. & Golob E.J. (2010). Influence of repetitive TMS to right inferior parietal cortex on auditory spatial processing. *Organization for Human Brain Mapping.*

Yurgil K. & Golob E.J. (2010). Working memory capacity and neural mechanisms of attentional control. *Cognitive Neuroscience Society.*

Karhson D.S. & Golob E.J. (2010). The effect of repetitive TMS to the right inferior parietal cortex on auditory spatial attention. *Cognitive Neuroscience Society.*

Badr Y., Manning L., Golob E.J. Richter E. (2010). The effect of deep brain stimulation of the subthalamic nucleus on executive function in Parkinson's disease. *Louisiana Neurosurgical Society.*

Manning L.M. & Golob E.J. (2009). Representation of key in non-verbal working memory: an event-related potential study. *Cognitive Neuroscience Society.*

Holmes J.L. & Golob E.J. (2008). Auditory object codes and spatial attention: an event -related potential analysis. *Society for Neuroscience Abstracts*, 34.

Nelson J.T. & Golob E.J. (2008). The effect of repetitive TMS to the left dorsolateral prefrontal cortex on auditory event-related potentials. *Society for Neuroscience Abstracts*, 34.

Mock J.R., Foundas A.L., Golob E.J. (2008). The influence of speech-motor programming
on auditory cortical responses. *Society for Neuroscience Abstracts*, 34.

Holmes J.L. & Golob E.J. (2007). The influence of spatial attention and sound location on auditory event-related potentials. *Society for Neuroscience Abstracts*, 33.

Autin K.M. & Golob E.J. (2007). Pre and post stimulus activity in dichotic listening: an auditory ERP study. *Society for Neuroscience Abstracts*, 33.

Autin K.M. & Golob E.J. (2007). Auditory event-related potentials and perceptual judgments of speech. XX Biennial Symposium of the International Evoked Response Audiometry Study Group.

Starr A., Golob E.J., Irimajiri R, Michalewski H.J. (2007). Sensory cortical changes accompany aging, mild cognitive decline, and dementia. XX Biennial Symposium of the International Evoked Response Audiometry Study Group.

Golob E.J., Irimajiri R., Starr A. (2007). Auditory cortical activity is abnormal in early cognitive decline and anticipates subsequent conversion to dementia. 5th International Symposium and Workshop on "Objective Measures in Cochlear and Brainstem Implants".

Golob E.J., Manning L.M., & Rader S.K. (2006). ERP correlates of attention and working memory. *International Organization for Psychophysiology.*

Golob E.J. & Rader S.K (2006). Influence of sound location and behavioral relevance on auditory event-related potentials. *Society for Neuroscience Abstracts*, 32.

Rader S.K., Manning L.K., & Golob E.J. (2006). Auditory event-related potentials and processing of speech and musical sounds during passive listening and target detection. *Society for Neuroscience Abstracts*, 32.

Manning L.K., Brown L.E., & Golob E.J. (2005). Lateralization of auditory processing for speech and music: an event-related potential analysis. *Society for Neuroscience Abstracts*, 31.

Rader S.K., & Golob E.J. (2005). Auditory event-related potentials during a spatial working memory task. *Society for Neuroscience Abstracts*, 31.

Irimajiri R., Golob E.J., Michalewski H.J., & Starr A (2005). Cholinesterase inhibitors influence both memory functions and sensory (auditory, somatosensory) evoked cortical potentials in mild cognitive impairment. *Society for Neuroscience Abstracts*, 31.

Golob E.J. (2004). Event-related potentials and mild cognitive impairment. *Clinical Electroencephalography*, 35(4), 211.

Irimajiri R., Golob E.J., & Starr A. (2004). Auditory event-related potentials in mild cognitive impairment. *Cognitive Neuroscience Society.*

Wang H, Chu Y, Bert A, Chang V, Golob E, Hill MA, Mandelkern M, Nalcioglu O, & Su MY (2004). Regional cerebral hypoperfusion of medial temporal lobe in mild

cognitive impairment. *Neurobiology of Aging*, 25(S2).

Wang H., Su MY, Chu Y, Bert A, Golob E, Mandelkern M, Chang V, Nalcioglu O. (2004). Regional cerebral hypoperfusion of medial temporal lobe in mild cognitive impairment. *International Society of Magnetic Resonance in Medicine, 12*.

Golob E.J. (2003). Neurophysiological analysis of processing speed reductions in aging and mild cognitive impairment. *Clinical Electroencephalography*, 34(3), 172.

Bennett I., Golob E.J., Ovasapyan V., & Starr A. (2003). Age-related differences in auditory event-related potentials during a cued attention task. *Society for Neuroscience Abstracts*, 29.

Golob E.J., & Starr A (2002). Processing speed in aging: Event-related potentials in stimulus evaluation and response preparation. *Society for Neuroscience Abstracts*, 28.

Ovasapyan V., Golob E.J., & Starr A. (2002). Changes in pre-stimulus slow potentials in normals between 60 and 100 years of age. *Society for Neuroscience Abstracts*, 28.

Starr A., & Golob E.J. (2002). Event-related potentials in mild cognitive impairment. *International Journal of Psychophysiology*. 45(1-2), 35.

Golob E.J., & Starr A. (2001). Primacy and recency effects during working memory retrieval. *Society for Neuroscience Abstracts*, 27.

Ovasapyan V., Golob E.J., & Starr A. (2001). Pre-stimulus potentials in target detection consist of motor preparation and stimulus expectancy components. *Society for Neuroscience Abstracts*, 27.

Taube J.S., & Golob E.J. (2001). Influence of aversive reinforcement on reorientation in a spatial working memory task. *Society for Neuroscience Abstracts*, 27.

Golob E.J., Miranda G.G., & Starr A. (2000). Neurophysiological examination of cortical disconnection in Alzheimer's disease. *Society for Neuroscience Abstracts,* 26: 1545.

Golob E.J., Wong A.C., & Taube J.S. (1998). On the behavioral relevance of head direction cells. *Society for Neuroscience Abstracts*, 24: 1913.

Bassett J.P., Golob E.J., Muller R.U., & Taube J.S. (1998). Anticipatory time intervals of head direction cells increase during passive movement. *Society for Neuroscience Abstracts*, 24: 1912.

Golob E.J., & Taube J.S. (1997). Response of head direction cells to a novel landmark cue. *Society for Neuroscience Abstracts*, 23: 504.

Blair H.T, Sharp P.E., Goodridge J.P., Stackman R.W., Golob E.J., & Taube J.S. (1997). Experimental evidence for a path integrator in the rat head-direction circuit. *Proceedings of the Computational Neurosciences Conference CNS 97*.

Golob E.J., & Taube J.S. (1996). Head direction cells are less responsive to idiothetic cues in rats with hippocampal lesions. *Society for Neuroscience Abstracts*, 22: 1873.

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Golob E.J., & Taube J.S. (1994). Head direction cells recorded from the postsubiculum in animals with lesions of the lateral dorsal thalamic nucleus. *Society for Neuroscience Abstracts*, 20: 805.

Schmidt H.S., Golob E.J., & Torello M.W. (1992). Alpha intrusion in sleep and its relationship to excessive waking alpha and depression. *Sleep Research*, 21:258.

Schmidt H.S., Golob E.J., & Torello M.W. (1992). Enuresis associated with idiopathic central nervous system hypersomnolence: Treatment with protriptyline. *Sleep Research*, 21:308.

Conference and invited lectures

"Brief training can reduce spatial hearing deficits when wearing hearing protection". AIM Health R&D Summit. San Antonio, Texas. 06-2025

"Increasing hearing protection device compliance through training". Military Health System Research Symposium. Orlando, Florida. 08-23

"Brain dynamics: Know thyself". Loyola University. New Orleans. 11-21

"Brain dynamics: Know thyself". Neurofeedback and biofeedback mini-conference. San Antonio, Texas. 11-21

"Using AI to decode brain information processing in neurological disorders". SABITT meeting. 02-21

"Cognitive and neural dynamics of panoramic auditory spatial attention". Auditory Perception and Cognition Society Annual Conference. Keynote. 11-20

"Brain dynamics: making the most of what you have". Neurofeedback and biofeedback mini-conference. San Antonio, Texas. 10-19

"Predicting Auditory Spatial Attention from EEG using Single- and Multi-task Convolutional Neural Networks. IEEE International Conference on Systems, Man, and Cybernetics. Bari, Italy. 10-19

"Brain dynamics: making the most of what you have". Louisiana State University Health Sciences Center. New Orleans, LA. Research Day Keynote. 04-19

"Eavesdropping on the brain: understanding neural codes and their applications. Texas A&M University, San Antonio. 11-18

"Attention systems and layers of intelligence". Southern Society for Philosophy and Psychology. Keynote. 03-18

"On the role of loudness in auditory spatial attention gradients". Annual Meeting of the

Psychonomic Society. Vancouver, BC, Canada. 11-17

"Effects of numerosity on auditory spatial perception". Armadillo research conference. Texas A&M University. College Station, TX. 10-17

"Impact of verbal and spatial short-term memory load on auditory spatial attention gradients". Association for Research in Otolaryngology (ARO) Annual meeting. 02-17

"Adjustments of cognitive control on different timescales". Southeastern Psychological Association Annual Meeting. 04-16

"Dynamics of auditory spatial cognition". University of Texas, San Antonio. San Antonio, TX. 12-15.

"Impact of musical experience on attention control and working memory capacity". Southern Society for Philosophy and Psychology. New Orleans, LA. 04-15

"Control of auditory spatial attention in normal aging". University of South Florida. Tampa, FL. 11-14

"Control of auditory spatial attention in normal aging". American Psychological Association Convention. Washington, DC. 08-14

"Music and brain aging". Performing Arts Medicine Association satellite conference, American Medical Society for Sports Medicine. New Orleans, LA. 04-14

"Control of spatial attention in aging". International Conference on Aging and Cognition. Dortmund, Germany. 04-13

"Music and brain aging". Louisiana State University Life Course and Aging Center. Baton Rouge, LA. 02-13

"Interactions between perception and action in the auditory system". School of Allied Health Professions. Louisiana State University Health Sciences Center. 11-12

"Spatial cognition and attention control". IDeA Conference. North Dakota State University. Fargo, ND. 07-12

"Cortical dynamics in cognitive aging". Leibniz Centre for Working Environment and Human Factors. Dortmund, Germany. 10-11

"EEG analyses of cortical dynamics in normal and abnormal aging". International Cognitive Neuroscience Conference. Mallorca, Spain. 09-11

"Spatial cognition and attention". University of Texas, Dallas and Center for Brain Health. Dallas, TX. 02-11

"Top-down influences on sensory processing in normal aging". International Conference on Aging and Cognition. Dortmund, Germany. 10-10

"Auditory cortical activity measures identify those individual mild cognitive impairment (MCI) subjects who will convert to Alzheimer's dementia (AD)". International Conference on Aging and Cognition. Dortmund, Germany. 10-10

"Spatial cognition as a model system for understanding brain and cognitive aging". Department of Psychology. Louisiana State University. 09-10

"Top-down and bottom-up interactions in auditory cortical processing". Dept. of Cell Biology and Anatomy. Louisiana State University. 10-09

"Influence of speech motor programming on auditory and motor cortex responsiveness". Israel Society for Neuroscience. Eilat, Israel. 12-08

"Mild Cognitive impairment and dementia: a multidisciplinary approach". Invited symposium presented at "Brain and behavior: Advances in Neuroimaging" conference. Tulane University. 12-07

"Cortical processing of speech and sound location information in humans". Center for Cognitive Science. University of Louisiana, Lafayette. 10-07

"ERP correlates of attention and working memory". Invited symposium presented at International Organization of Psychophysiology meeting. Istanbul, Turkey. 08-06.

"Memory, aging, and early Alzheimer's disease: A cognitive neuroscience perspective". Program in Neuroscience seminar. Tulane University. 10-04.

"Event-related potentials and mild cognitive impairment". Invited symposium presented at EEG and Clinical Neuroscience Society Conference. Irvine, CA. 09-04.

"Working Memory and Age-Related Changes in Brain Function". Department of Psychology. University of South Florida. 01-04.

"Working Memory and Age-Related Changes in Brain Function". Department of Psychology. Texas A&M University. 01-04.

"Working Memory and Age-Related Changes in Brain Function". Department of Psychology. Tulane University. 12-03.

"Neurophysiological analysis of processing speed reductions in aging and mild cognitive impairment". Invited symposium presented at EEG and Clinical Neuroscience Society Conference. Houston, TX. 09-03.

"Working Memory and Age-Related Changes in Brain Function. Department of Psychology and Kennedy Center. Vanderbilt University. 12-02.

"Event-related potentials and mild cognitive impairment". Alzheimer's Disease Research Centers of California Annual Conference. Lake Arrowhead, CA. 10-02.

"Event-related potentials and mild cognitive impairment". Invited symposium presented at International Organization of Psychophysiology meeting. Montreal, Canada. 07-02.

"Cortical Interactions, Working Memory, and Age-related Changes in Brain Function" School of Psychology, Georgia Institute of Technology. 01-02.

"Electrophysiological dynamics of working memory retrieval". Perception Group, Department of Cognitive Sciences, University of California, Irvine. 05-01.

"Electrophysiological changes in mild cognitive impairment and dementia". Co-presented with Arnold Starr at Grand Rounds, Department of Neurology, University of California, Irvine. 10-00.

"Auditory cortical activity during working memory tasks". Presented at "Things Auditory" Group, Department of Neurobiology and Behavior, University of California, Irvine. 05-00.

"Strategies for early diagnosis of Alzheimer's disease using cognitive evoked potentials". Co-presented with Arnold Starr at Texas Tech University. 11-99

Referee:

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Journals: Neurobiology of Aging; Clinical Neurophysiology; Journal of the American Medical Association (JAMA); Cerebral Cortex; European Journal of Neuroscience; Biological Psychology; Journal of Neuroscience; Neuroimage; Behavioural Brain Research; Journal of the Acoustical Society of America; Neurology; Psychophysiology; Neuroscience Letters; Audiology and Neurotology; Neuropsychology; Journal of Neurology Neurosurgery and Psychiatry; Journal of Psychophysiology; International Journal of Psychophysiology; Neuropsychologia; Macedonian Journal of Medical Sciences; European Journal of Psychological Assessment; Journal of Geriatric Psychiatry and Neurology; Human Brain Mapping; Journal of Alzheimer's Disease; Journal of Clinical Neurophysiology; PLOS One; Aging, Neuropsychology and Cognition; Journal of Diabetes and its Complications; Frontiers in Psychology; Intelligence; Attention, Perception, & Psychophysics; Experimental Brain Research, Alzheimer's & Dementia: The Journal of the Alzheimer's Association, Journal of Expermental Psychology: Human Perception and Performance; Acta Psychologica