

Edward Golob, Ph.D.

Professor

Department of Psychology

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Office hours: T 3:00-4:00 pm or by appt

Degrees

- Postdoctoral Fellow, 1999-2001, University of California, Irvine
- Ph.D. in Experimental Psychology, 1999, Dartmouth College
- B.A. in Psychology, 1991, Capital University,

Recent Courses

- 5345 *Human Cognition (M.S. level)*
- 7133 *Adv Topic: Applied Cognitive Psych (Ph.D. level)*

Research in Progress

- Spatial Cognition
- Attention and Working Memory
- Perception and Action in the Auditory System
- Normal Aging and Age-Related Cognitive Disorders

Current Research Projects

- NIH (2015-2020). Principal Investigator. Shifting auditory spatial attention: cognitive and neural mechanisms. \$1,378,657 total costs.
- NIH (2012-2017). COBRE (Jazwinski, PI). Principal investigator, Project 2. Spatial attention networks and cognitive aging. \$1,117,695 total costs.

Completed Research

- NSF (2009-2014). Principal Investigator. "CAREER: Cortical processing of auditory spatial information". \$768,443 total costs.
- NIH R01 (2002-2006). Co-investigator. "Cognitive and neurophysiological changes in mild cognitive impairment". \$1,053,530 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. Cognitive effects of electrical stimulation of the subthalamic nucleus. \$50,000 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.

Recent Publications

- 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
- Golob E.J., Lewald J., Jungilligens J., Getzmann S. (In Press). Interaction of number magnitude and stimulus position in auditory localization of speech. *Perception*.
- 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

Additional Information

Past Graduate Advisee

- John Myers (Ph.D. awarded 2019)

Membership in Professional Societies and Service

- Cognitive Neuroscience Society
- Association for Psychological Science (APS)
- Association for Research in Otolaryngology (ARO)
- International Evoked Response Audiometry Study group
- Editorial Boards: Clinical Neurophysiology, Journal of Psychophysiology
- Member NIH special emphasis panel (ZRG1 ETTN-K 10), June 2012, October 2012, February 2013, June 2015
- Member NIH Sensory and Motor Neuroscience, Cognition and Perception Fellowship Study Section (ZRG1 F02B-D), October 2013, February 2014, February 2015
- Member NIH special emphasis panel (ZRG1 IFCN-Q 55). October 2014
- AD hoc member NIH Mechanisms of Sensory, Perceptual, and Cognitive Processes (SPC) Study Section, June 2014

Referee

- Grants: National Science Foundation, National Institutes of Health, Neurological Foundation of New Zealand, Israel Science Foundation, Technology Foundation STW, Wellcome Trust
- 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; 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