

Alicia A. Swan, Ph.D.

Assistant Professor

Department of Psychology

Research area: Functional outcomes after traumatic brain injury

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Degrees

- Ph.D., Psychology, Southern Illinois University Carbondale
- M.A., Psychology, Southern Illinois University Carbondale
- B.A., Psychology, Purdue University

Recent Courses

- 4183 *Physiological Psychology*

Research in Progress

My body of research focuses on the relationship between the brain and the behavioral phenomena it influences. I'm an experienced Behavioral Neuroscientist with a wide breadth of knowledge in behavioral modeling and assessment in both animal and human models and paradigms. My current work focuses on health outcomes in Post-9/11 Veterans, particularly those associated with traumatic brain injury, sensory dysfunction, cognitive disorders, and complex comorbidity patterns. I have passion for developing scientific products with fellow scientists and students through interdisciplinary and collaborative work.

Recent Publications

- Marceaux, J. C., Soble, J., O'Rourke, J., **Swan, A. A.**, Wells, M., Franklin, K., Pugh, M., J. V. (In preparation). The Devil is in the Method: Validity of Early-Onset Dementia and Cognitive Impairment Diagnoses in Post-9/11 Veterans. *Neurology*.
- **Swan, A. A.**, Nelson, J. T., Pogoda, T. K., Akin, F. W., Esquivel, C., Pugh, M. J. (Invited Special Issue, in preparation). The Association between Neurosensory Dysfunction, Blast Exposure and Traumatic Brain Injury Severity among Iraq and Afghanistan War Veterans: A Chronic Effects of Neurotrauma Consortium Study. *Brain Injury*.
- **Swan, A. A.**, Amuan, M. E., Morissette, S. B., Finley, E. P., Eapen, B. C., Jaramillo, C.A., & Pugh, M. J. (Submitted, September 2017). Long-term physical and mental health

outcomes associated with traumatic brain injury severity in Iraq and Afghanistan war Veterans. *Brain Injury*.

- **Swan, A. A.**, Nelson, J. T., Pogoda, T. K., Akin, F. W., Riska, K. M., Hall, C. D., Amuan, M. E., Yaffe, K. & Pugh, M. J. (Submitted, September 2017). Prevalence and Comorbidities of Vestibular Dysfunction and Dizziness in Iraq and Afghanistan War Veterans: A Chronic Effects of Neurotrauma Consortium Study. *Journal of Head Trauma Rehabilitation*.
- Hammerle, M. H., Nelson, J. T., **Swan, A. A.**, & Treleaven, J. (Submitted, July 2017). Factors associated with improved dizziness post-concussion: A retrospective review. *Journal of Neurologic Physical Therapy*.
- Pugh, M. J., **Swan, A. A.**, Carlson, K. F., Jaramillo, C. A., Eapen, B. C., Dillahunt Aspillaga, C., Amuan, M. E., Delgado, R. D., McConnell, K., Finley, E. P., & Grafman, J., Trajectories of Resilience and Complex Comorbidity Study Team. (In Press). Traumatic brain injury severity, comorbidity, and community reintegration among veterans of the Afghanistan and Iraq Wars. *Archives of Physical Medicine and Rehabilitation*.
- **Swan, A. A.**, Nelson, J. T., Swiger, B.*, Jaramillo, C. A., Eapen, B. C., Packer, M., & Pugh, M. J. (2017). Prevalence of hearing loss and tinnitus in Iraq and Afghanistan veterans: A Chronic Effects of Neurotrauma Consortium Study. *Hearing Research {special issue on Noise in the Military}*, 349,4-12.
- Nelson, J. T., **Swan, A. A.**, Swiger, B.*, Packer, M., & Pugh, M. J. (2017). Hearing conservation testing in the U.S. Department of Defense: Potential impact on Veterans Affairs hearing loss disability awards. *Hearing Research {special issue on Noise in the Military}*, 349, 13-20.
- Pugh, M. J., Finley, E. P., Wang, C-P, Copeland, L. A., Jaramillo, C. A., **Swan, A. A.**, Elnitsky, C. A., Leykum, L. K., Mortensen, E. M., Eapen, B. C., Noel, P. H., Pugh, J. A., & The TRACC Research Team. (2016). A Retrospective Cohort Study of Comorbidity Trajectories Associated with Traumatic Brain Injury in Veterans of the Iraq and Afghanistan Wars. *Brain Injury [Chronic Effects of Neurotrauma Consortium special issue]*, 30(12), 1481-1490.
- **Swan, A. A.**, Clutton, J. E.C.*, Kesavan Chary, P.*, Cook, S.G.*, Liu, G.*, & Drew, M.D. (2014). Characterization of the role of adult neurogenesis in touch-screen discrimination learning. *Hippocampus*, 24(12), 1581-91.
- Hoane, M. R., **Swan, A. A.**, & Heck, S.* (2011). Animal models of traumatic brain injury: The investigation of the effects of a high-fat sucrose diet on functional outcome in the rat. *Behavioral Brain Research*, 223(1), 119-124.
- **Swan, A. A.**, Chandrashekar, R., Beare, J., & Hoane, M. R. (2011). Preclinical efficacy testing in middle-aged rats: Nicotinamide, a novel neuroprotectant, demonstrates diminished preclinical efficacy following controlled cortical impact. *Journal of Neurotrauma*, 124(2), 431-440.

* indicates student author