

Emily Drake



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Professional Experience

Research Scientist- Neurophysiology

Life University Dr. Sid E Williams Center for Chiropractic Research

Aug 2021- Present

- Serves as lead investigator on research projects investigating brain activation patterns and brain-body neuroplasticity, including study design, data collection, analysis, and interpretation
- Provides leadership and training in use and analysis of neurophysiologic approaches to brain-body neuroplasticity research

Research Lab Coordinator

Life University Dr. Sid E Williams Center for Chiropractic Research

Oct 2017- Aug 2021

- Assists PIs with current research and developmental ideas for future research, including protocol design, testing, and creation of documents to be included in IRB study requests
- Coordinates and trains student volunteers, work study students, and assistants for research and educational opportunities
- Acquires, maintains, and operates lab equipment, including technical problems and regular maintenance
 - Compumedics 64-channel EEG hydrocap with Curry 8 software; Noraxon suite: inertial measurement units, force sensor treadmill, Ninox camera, Ultium system; Modular BIOPAC system; NeuroCom Balance Master; Bertec balance platform; CareTaker patient monitor; JotForm survey; EPrime with Chronos box
- Schedules and meets with participants to complete study protocols, including informed consent process and data collection
- Organizes, analyzes, and reports data for research studies
 - Resting state EEG, Evoked Potential EEG, HRV, EMG, COP, Jotform survey responses
- Maintains HIPPA and CITI compliance for confidentiality and protection of research participants
- Maintains the organization of daily function in the lab

Research Consultant

Life University Dr. Sid E Williams Center for Chiropractic Research

May 2017- Oct 2017

- Assisted principal investigators on studies including background research, data collection, and analysis
- Assisted with neurophysiological data collection and analysis
- Coordinated and trained student volunteers and work study students for research and training opportunities

Research Associate- Volunteer

Life University Dr. Sid E Williams Center for Chiropractic Research

Jan 2016 – May 2017

- Trained in the use of neurophysiological equipment and assessment
- Conducted literature reviews for future studies
- Analyzed data for current studies

Education and Honors

Bachelor of Science, Biopsychology

June 2016

- Life University Marietta, GA
- Summa Cum Laude

Master of Science, Human Performance, Clinical Cognate

January 2022

- Liberty University Lynchburg, VA
- Summa Cum Laude

Certification and Continuing Education

- Introduction to Clinical Neurology by University of California, San Francisco on Coursera Apr 2019
- Understanding Clinical Research: Behind the Statistics by University of Cape Town on Coursera Apr 2019
- The Brain and Space by Duke University on Coursera May 2019
- Basic Life Support Aug 2019
- Medical Neuroscience by Duke University on Coursera Feb 2020

Conference Presentations

- Sullivan S, **Drake E**, Tuttle D, Hosek R, Youkey R. The effects of whole-body rotation on brain function as measured by quantitative electroencephalography. Association of Chiropractic Colleges/ Research Agenda Conference. 2018. Platform. Proceedings in J Chiropr Education 2018;32 (1):65.
- Seckington A, Sullivan S, **Drake E**. Sensory integration therapy utilizing the SAVE Program: A case report of a post-concussive adult. Association of Chiropractic Colleges/ Research Agenda Conference. 2018. Poster. Proceedings in J Chiropr Education 2018;32 (1):78.
- **Drake E**, Seckington A, Sullivan S. Case report of an adult with prior concussions utilizing sensory integration therapy with the SAVE program: A follow up. Association of Chiropractic Colleges/ Research Agenda Conference. 2019. Platform. Proceedings in J Chiropr Education 2019;33 (1):56.
- Kuyinu E, Sullivan S, Longyear M, **Drake E**, Lawrence P. Case report of an adult patient with self-reported symptoms of attention deficit hyperactivity disorder (ADHD) receiving multimodal Applied Clinical Neuroscience care. Association of Chiropractic Colleges/ Research Agenda Conference. 2019. Poster. Proceedings in J Chiropr Education 2019;33 (1):75.
- Sullivan S, Marshall R, Tuttle D, **Drake E**, Hosek R, Hochman J. Changes over time in effective neural connectivity following a chiropractic adjustment. Association of Chiropractic Colleges/ Research Agenda Conference. 2019. Platform. Proceedings in J Chiropr Education 2019;33 (1):66.
- **Drake E**, Vettraino M, Sullivan S, Hosek R, Longyear M, Russell B, Behrens S, Yamlikha S. Comparison of the effects of ergonomic chair design on videonystagmography and cognitive performance. Association of Chiropractic Colleges/ Research Agenda Conference. 2020. Poster. Proceedings in J Chiropr Education 2020;34 (1):94.
- Sullivan S, Russell B, Hosek R, Owens Jr E, Seckington A, **Drake E**. A model for chiropractic research designated to move the healthcare dialogue toward a development-of-health model. Association of Chiropractic Colleges/ Research Agenda Conference. 2020. Poster. Proceedings in J Chiropr Education 2020;34 (1):102.
- Sullivan S, **Drake E**, Neff S, Champagne M, Seckington A. A survey of the effects of the SARS-CoV-2 pandemic on chiropractic practice in the state of Georgia. Association of Chiropractic Colleges/ Research Agenda Conference. 2021. Platform. Proceedings in J Chiropr Education 2021;35 (1):88.

Peer Reviewed Publications

- Russell BS, Hosek RS, Hoiriis KT, **Drake ED**. Chronic Progressive External Ophthalmoplegia and Bilateral Vestibular Hypofunction: Balance, Gait, and Eye Movement Before and After Multimodal Chiropractic Care: A Case Study. *J Chiropr Med*. 2019 Jun;18(2):144-54.
- **Drake ED**, Seckington AS, Sullivan SGB, Behrens S. The sensory-motor auditory visual education (SAVE) program for adults with prior concussions: a prospective case study. *Integr Med Res*. 2020 Jun;9(2):Epub.