

CONTACT



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EXPERTISE SKILLS

Intelligence Gathering
Data Visualization, + Validation
Instruction + Teaching
Statistics + Machine Learning
Coding Error Resolution
Database Management
Experimental Design
Problem Solving

PERSONAL ATTRIBUTES

Analytical + Critical Thinking
Self-motivated
Adaptable
Prioritization + Planning
Project Management
Communication
Teamwork + Collaboration
Independent Work + Progress

SOFTWARE SKILLS

Gimp	Microsoft Office
Google G-Suite	NLP
HTML	Python
LaTeX	R
Linux/Bash	SPSS
Matlab	SQL

LAURYN (L) BURLEIGH PH.D.



ABOUT ME

Expertise in gathering, cleaning, analyzing, and presenting data to technical and non-technical personnel. Advanced understanding of statistical, algebraic, and other analytical techniques. Highly organized, motivated, and diligent with significant background in cognitive and computational neuroscience, collaborated with computer scientists on novel algorithms.

WORK EXPERIENCE

Course Instructor - DataCamp

01/2023- Current

Creating an online course for researchers, data scientists, and statisticians to learn A/B test design, data analysis, and data presentation using R.

Graduate Researcher - Louisiana State University

08/2016 - Current

Headed multiple research projects managing 2-8 additional researchers to investigate the acquisition and generalization of fear to visually perceived and mentally imagined stimuli using self-report, skin conductance response, and fMRI measures to further understanding and improve treatment of fear-based mental health disorders such as anxiety and PTSD. Reviewed literature to determine unknown gaps in research, as well as determine and create ideal methodology, statistics including Frequentist, Bayesian, Machine Learning, and Transfer Learning analyses, collect data, and write single and multi-experiment manuscripts for relevant journal publication.

Collaborated as team member of 2-10 researchers on multiple projects investigating fear, mental rotation, working memory, and treat. Provided assistance in methodology creation, instruction on measurement collection, selection and implementation of statistical analyses, and manuscript revision for journal publication.

Graduate Teaching Assistant - Louisiana State University

08/2019 - 12/2022

Created and instructed labs and lectures, including lab assignments, on understanding and implementing human behavior research statistical analyses using R and SPSS to undergraduate and graduate Psychology students in General Statistics and Intermediate Statistics courses of 15-30 students. Assisted professors in determining lesson plans, course material, course management, homework, and exams, providing suggestion for adapting the courses based on student understanding and progress.

Undergraduate Research Assistant - University of New Orleans

08/2013 - 12/2015

Assisted a team of 5 graduate students gathering, arranging, and maintaining research data collected using self-report, reaction time, salivation, pulse, heart rate and fMRI measures, including creation and coding of automatic calculation data forms and questionnaires and maintaining and calibrating lab equipment for studies investigating stress, cognition, and affective states in special population children with 22q11.2 deletion syndrome.

EDUCATION

M.A., PhD - Louisiana State University

08/2016 - 05/2023

Cognitive and Brain Science
Ph.D. Dissertation - Domain Adaptation in fMRI
M.A. Thesis - Neural Mechanisms of Fear

B.S. - University of New Orleans

01/2012 - 12/2014

Psychology
Cum Laude