Charles Brammer Williams

⌗ github   ☘ Academic Website   ☎ (1) 601-566-3505   ✉ cbw383@msstate.edu

EDUCATION

Mississippi State University   May 2024
B.S. Psychology | Cum Laude   *Degree GPA: 3.49*
   Minor: Statistics   *3.67*
   Minor: Cognitive Science   *3.63*

HONORS & AWARDS

Honors

- Mississippi State University Dean's List Member   Fall 2021
- Mississippi State University Dean's List Member   Spring 2022
- Mississippi State University President's List Member   Fall 2022
- Mississippi State University Dean's List Member   Spring 2023
- Mississippi State University Dean's List Member   Fall 2023
- Mississippi State University President's List Member   Spring 2024

Awards

- Academic Excellence Scholarship; $1500 per year.   2019 - 2021
- Colvard Future Leader Scholarship; $1000 per year.   2019 - 2021

RESEARCH EXPERIENCE

DESHONG LAB: UNDERGRADUATE RESEARCHER ASSISTANT

National Institute of Mental Health R-15 Grant   2023 - Present

Title: *An experimental approach to emotion regulation: Investigating rumination, cognitive control, and maladaptive behaviors study (1R15MH122937-01A1)*

- Conducted study protocol (e.g., COVID-19 protocols, mood induction tasks, and computerized behavioral tasks utilizing E-Prime) across two in-lab-sessions totaling three and a half hours per participant
- Manage scheduling of participant (e.g., direct calls, emails, document contacts) and conduct phone screeners to determine participant eligibility (e.g., endorsement of BPD symptoms, screening out bipolar disorder and psychosis symptoms)
- Assisted peers with preparing documents for NDA data submission.
- Actively involved in study recruitment, including creating flyers for IRB approval & distributing recruitment materials
- Assisted with monetary record keeping and distribution of participant compensation.

Individual Differences in Young Adult Alcohol Outcomes   2023 - Present

- Updated informed consent and debriefing materials for IRB approval.
- Solved ongoing issue with measure randomization in E-Prime.
- Wrote a custom E-Basic script to create a next button that would only allow participants to proceed after selecting a response.
- Designed and Created E-Prime Survey including Demographics, self report measures, and computerized tasks.
- Administered behavioral measures of response inhibition and risk-taking using E-Prime 3.0
- Created Qualtrics survey and a custom participant counter script to bridge the E-Prime Go software to the Amazon Mechanical Turk's worker interface
- Launched study on Amazon's Mechanical Turk through Cloud Research to begin recruitment

The Trait-Interpersonal Theory of Suicide: A Prospective Approach   2023 - Present
- Conducted study protocol across two sessions. (e.g. self report screeners; Managed the distribution and utilization of an electronic app)
- Manage scheduling of participant (e.g., direct calls, emails, document contacts)
- Actively involved in the distribution of recruitment material.
- Assisted with monetary record keeping and distribution of participant compensation.

General Lab Procedures   2023 - Present
- Mentored and Trained 6 oncoming undergraduates on study protocols and general lab procedures.
- Organized division of labour and developed Lab Website using the Wix platform (e.g. home page, people page, research page, professional societies page)
- Led discussions of peer-reviewed articles during lab meetings and mentored oncoming RAs on this process.
- Consulted other undergraduate RAs on the statistical methods used in their projects.

Professional Development, and Certifications

Development - Conferences and Seminars
- Quantitative Methods Information Session   2022 - 2023
- APA Science Training: Introduction to Mediation Analysis with PROCESS   2023
- APA Science Training: The Analysis of Intensive Longitudinal Data   2022
- APA Science Training: Introduction to Factor Analysis   2024
- APA Science Training: Introduction to Social Network Analysis   2024
- Introduction to Structural Equation Modeling   2024
- MSU Statistics Seminar: What do health sciences faculty know about statistics?   2024
- Dan Bauer & Patrick Curran: Introduction to Structural Equation Modeling   2024

Certifications
- CITI [1] Training Certification: Responsible Conduct of Research (RCR)   2021 - 2026
- CITI Training Certification: Human Subjects Researchers   2023 - Present
- Minors on Campus: Working with Underage Program Participants and Campers   2023 -Present
- CITI Training Certification: Social and Behavioral Research Best Practices for Clinical Research   2024 - 2027
- CITI Training Certification: HIPAA for Students and Instructors - Basic Course   2024 - Present
- CITI Training Certification: HIPAA for Researchers   2024 - Present

---

[1]Collaborative Institutional Training Initiative

EXPERIENCE

SKILLS

- R & RMarkdown
- LaTeX
- SPSS (AMOS & PROCESS)
- SONA System, Cloud Research, & Amazon Mechanical Turk
- Python (Pandas & Manim)
- E-Prime Go/Basic

PROJECTS

Experimental Psychology Project   2021

Collected and analyzed data using the Five Factor model from a pool of 43 undergraduate students from Mississippi State taking Experimental Psychology in the Fall semester of 2021.

Data Analysis I R Project   2021

Analyzed a Mississippi SNAP food assistance data set of over 1.5 million observations for anomalies.

Data Analysis II R and Manim Project   2023

Analyzed the Palmer Penguins dataset using a variety of multiple regression models, unsupervised and supervised learning models, and tree based methods. Created presentation using the Manim Animation Library for Python.