

Cade Abrams, PhD

As an accomplished data scientist and researcher, I excel in cleaning, analyzing, and managing data sets to derive technical insights to advance research and inform decisions. My passion lies in solving complex problems by leveraging advanced analytical techniques, including predictive models. Trained as an interdisciplinary scientist and educator, I am skilled in effectively communicating complex results to technical and non-technical audiences.



EXPERIENCE

- Nov 2023
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Present

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Data Scientist
Booz Allen Hamilton📍 On-Site

- Support clients by discovering data insights with data analysis, machine learning, pipeline building/automation, and dashboard building/design.
- Aug 2022
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Nov 2023

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Postdoctoral Research Fellow – Data Scientist
University of South Carolina📍 Columbia, South Carolina

- Conducted advanced statistical analyses using R, including regression modeling and hypothesis testing, to extract meaningful insights for academic manuscripts.
 - Applied innovative data processing techniques, enhancing sensitivity to developmental changes resulting in effect sizes 3 times larger than traditional techniques.
 - Collaborated with cross-functional and international teams to conduct statistical analyses, optimize data processing, and ensure the success of ongoing research projects.
 - Managed project workflows effectively on GitHub, streamlining research processes through version control and collaborative tools.
- Aug 2019
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Aug 2022

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Doctoral Graduate Assistant
University of South Carolina📍 Columbia, South Carolina

- Collaboratively managed a 4-year project through data collection, management, cleaning, and predictive modeling to advance motor skill and cognitive assessments resulting in 5 publications and 12 presentations.
 - Saved 42 manual hours across 8 data collections with custom R functions, designed to improve data processing efficiency and reduce data entry errors.
 - Developed custom data indices for ROTC yielding actionable insights to optimize training, resulting in a 16% increase in ACFT pass rates across 1.5 years (~135 Cadets in sample).



CONSULTING & FREELANCE WORK

- Oct 2023
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Present

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Biostatistician
Therabody📍 Remote

- Contribute to Therabody's evidence-based approach to product development by leveraging statistical insights to guide decisions on treatment protocols for Therabody products.
 - Collaborate remotely with cross-functional teams, translating statistical insights into actionable strategies for enhancing Therabody products.
 - Remain current on industry advancements, incorporating cutting-edge statistical methodologies to continuously refine analyses for Therabody's unique needs.

CONTACT INFO

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🌐 github.com/PlayfulMaven
in [cade-abrams-phd](https://www.linkedin.com/in/cade-abrams-phd)

For more information, please contact me via email.

EDUCATION

BS in Exercise Science

Lander University
Aug 2017

MAT in Physical Education

University of South Carolina
Aug 2019

PhD emphasis in Motor Behavior

University of South Carolina
Dec 2022

Subspecialties in: **Statistics**
and **Cognitive Neuroscience**

SKILLS

R
Python
Markdown
Statistical Analysis
Data Cleaning
Data Wrangling
Experimental Design
Microsoft Excel

Commonly Used Libraries

R
broom · conflicted · dplyr · ggplot2 · Hmisc · lubridate · magrittr · purr · readr · stringr · tibble

Python

glob · ipywidgets · Matplotlib · NumPy · os · pandas · PsychoPy · random · scikit-learn · shutil

</> SELECT PROJECTS

Summer
2023

● 3-D Model of Motor and Cognitive Solutions

🔗 <https://github.com/PlayfulMaven/complexity-dual-task-conceptual>

Python code creates 3 visual diagrams, simplifying complex motor-cognitive relations for non-technical audiences.

- Interdisciplinary Research
- Data Visualization
- Jupyter Notebook
- Creativity

Spring
2023

● Beyond Traditional Approaches: Examining the Impact of SKIPping with PAX on Post-Error Slowing in Rural Preschoolers

🔗 https://osf.io/jyzpx/?view_only=24a908b0a4c842b2843f43a4a37bfd73

Open Science Framework project for statistical analysis of cutting-edge data processing methods resulting in an academic manuscript.

- Quantitative Analysis
- Data Visualization
- Data Interpretation
- Hypothesis Testing

Spring
2021

● Custom R Script for Processing and Scoring Army Combat Fitness Test Results

🔗 <https://github.com/PlayfulMaven/ACFT-Custom-Script>

R functions score raw ACFT event data, including times, accurately and efficiently.

- Custom Functions
- Data Wrangling
- Automation
- Data Processing