

CADE ABRAMS

As an accomplished data scientist and researcher, I excel in cleaning, analyzing, and managing data sets. I specialize in translating technical insights into strategic guidance for executive decision-making. My passion lies in solving complex problems by leveraging advanced analytical techniques, including predictive models. Trained as an interdisciplinary scientist, I consistently derive actionable insights from data, delivering robust solutions that drive informed decisions.

CONTACT INFO

+1(975)-205-1234
cade4420@gmail.com
github.com/Tcabrams44
in cade-abrams-phd

For more information, please contact me via email.

EXPERIENCE

- Aug 2022
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Present
- **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 effect sizes 3 times larger than traditional techniques.
 - Collaborated with cross-functional 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
- **Doctoral Graduate Assistant**
University of South Carolina
Columbia, South Carolina

- Collaboratively contributed to a 4-year project through data management, cleaning, and predictive modeling to advance motor skill assessment resulting in 5 publications and 12 presentations.
 - Saved 42 hours across 8 data collections with custom R functions, improving efficiency and reducing data entry errors.
 - Developed custom data indices for ROTC, yielding actionable insights, optimizing training, and achieving a 97.3% pass rate on the ACFT.

SKILLS

R
Python
Markdown
Statistical Analysis
Data Cleaning
Data Wrangling
Version Control
Predictive Models

Commonly Used Libraries

tidyverse · ggplot2 · Hmisc ·
pandas · NumPy · matplotlib

SELECT PROJECTS

- 2023
- **3-D Model of Motor and Cognitive Solutions**
<https://github.com/Tcabrams44/complexity-dual-task-conceptual>
12 words or less!, 4 Keywords

- Python
 - Jupyter Notebook
 - Data Visualization
- 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
12 words or less!, 4 Keywords

- R
 - Innovative Data Processing Techniques
 - Data Visualization
- 2020
- **Custom R Script for Processing and Scoring Army Combat Fitness Test Results**
[here](#)
12 words or less!, 4 Keywords

- R
 - Object-Oriented Programming
 - Custom Functions
 - Data Processing

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**