

Garrick Aden-Buie Data Scientist

Motivated, life-long learner. Always looking for questions and answers in the data. Passionate about collaboration, sharing knowledge, and communicating insights. Known as a highly organized, empathetic, and resourceful team player.

ABOUT

garrickadenbuie.com
garrick@adenbuie.com
(727) 344-9568
St. Petersburg, Florida (US)
GitHub: [gadenbuie](#)
Twitter: [grrrck](#)

LANGUAGES

English (Native)
Spanish (Superior ACTFL/ETS)

SKILLS

ADVANCED

R
Shiny
RMarkdown
JavaScript
HTML
CSS
git
pandoc
R Package Development
CI/CD (Travis, Appveyor)
Database Management
SQL (various flavors)
Command-line Scripting
MS Office (Excel, etc.)

INTERMEDIATE

Python
PHP
MQTT

FAMILIAR

Julia
Go

OPERATING SYSTEMS

Linux (Debian, Ubuntu, etc.)
macOS
Amazon AWS
Google Cloud
Docker
Windows

INTERESTS

Data Visualization
Acoustic Instruments
Music
Soccer
Books
Blogging

EDUCATION

University of South Florida 2012 — 2018
Masters of Industrial Engineering
Ph.D. Candidate (exited ABD), Industrial & Management Systems Engineering

Universidad Autónoma de Madrid 2005 — 2006
Study Abroad, Spanish

Lehigh University 2002 — 2007
B.S. Applied Math, B.A. Spanish, Physics (minor)

CERTIFICATIONS

RStudio Certified Tidyverse Instructor Sep 2019

PROFESSIONAL EXPERIENCE

Scientific Programmer Present
Collaborative Data Services, Moffitt Cancer Center Aug 2019

Work closely with CDS analysts and Moffitt investigators as a software engineer to design and implement new tools to automate data ingestion, cleaning, normalization and reporting. Provide training and support to CDS analysts in data science best practices, including reporting with R Markdown-based reports, while architecting and implementing new workflows.

- Designed and led trainings in R programming, data analysis, and version control for multiple teams at Moffitt
- Developed several R packages to streamline project management, reporting, and access to various databases

Workshop Instructor: JavaScript for Shiny Users Jan 2020
rstudio::conf(2020)
js4shiny.com

Created an entirely new, two-day, hands-on and project-driven workshop for 90 Shiny users on JavaScript and web development. Developed the js4shiny R package to support the workshop with tools for web development in R and RStudio, including an R Markdown format for literate JavaScript programming and a Shiny app HTML/CSS/JS editor with live preview.

Research Data Analyst II (Bioinformatics) Aug 2019
Gerke Lab, Cancer Epidemiology, Moffitt Cancer Center May 2018

Conducted advanced bioinformatic and statistical analyses in support of cancer epidemiology research. Applied novel analytic approaches and software pipelines to multiplex immunohistochemistry data.

- Designed and developed a Shiny dashboard interface with companion R package for analysis of the FCDS Florida Cancer Registry data
- Created and led an in-depth course on data processing with R for data analysts in Moffitt's Collaborative Data Services Core

Project Coordinator and Research Associate Jan 2018
University of South Florida Sep 2014
usf.edu/engineering/create-health

Led diverse team of Ph.D., masters and undergraduate students in development and evaluation of a large smart-home project for monitoring the daily activities of community-dwelling, independent older adults.

- Managed 3 Ph.D., 5 Masters, and 4 undergraduate REU students while serving as lead software developer for remote sensor data collection, processing, storage, administration, and visualization
- Developed several R packages for processing smart-home sensor data
- Created large, multi-page Shiny app for sensor inventory management
- Designed and implemented notification microservice for near-real-time evaluation and alerting for emergent conditions

R Package Developer: MCTestAnalysis Mar 2017
University of South Florida Jul 2016
garrickadenbuie.com/project/mc-test-analysis/

Developed an R package with embedded Shiny application for Multiple-Choice Test Analysis for educators to interactively explore test results, or a generate reports to guide the design of multiple-choice tests.

Research Assistant Sep 2014
University of South Florida Jun 2012

Research Assistant for Patel College of Global Sustainability and College of Engineering.

AWARDS

Runner Up, Shiny App Contest

Apr 2019

RStudio

Selected as one of 10 developers from 136 submissions in recognition of a web app and dashboard built using Shiny. The dashboard monitors social media conversations around a conference or event, and received hundreds of simultaneous visitors per day during RStudio's annual conference in January 2019.

PROJECTS

Scientific Software

- moffittCDS — An internal R package for CDS at Moffitt
- fcds — gerkelab.github.io/fcfs
- ShinyDAG — gerkelab.com/project/shinydag
- epiTAD — gerkelab.com/project/epiTAD

Open Source Software

I enjoy contributing to open source software projects and have contributed pull requests to many RStudio-supported packages. I also have released the following R packages and projects on GitHub:

- xaringanExtra - github.com/gadenbuie/xaringanExtra
- xaringanthemer - pkg.garrickadenbuie.com/xaringanthemer
- js4shiny - pkg.js4shiny.com
- cleanrmd - pkg.garrickadenbuie.com/cleanrmd
- metathis - pkg.garrickadenbuie.com/metathis
- countdown - pkg.garrickadenbuie.com/countdown
- tweetrmd - github.com/gadenbuie/tweetrmd
- tidyexplain - garrickadenbuie.com/project/tidyexplain
- regexplain - garrickadenbuie.com/project/regexplain
- ggpomological - garrickadenbuie.com/project/ggpomological
- rsthemes - github.com/gadenbuie/rsthemes
- ggweekly - github.com/gadenbuie/ggweekly

SELECTED PUBLICATIONS

shinyDAG: A web application for building, analyzing, and visualizing directed acyclic graphs (DAGs) 2020

Epidemiology (In Review)

Creed J, Aden-Buie G, Gerke TA

epiTAD: a web application for visualizing chromosome conformation capture data in the context of genetic epidemiology 2019

Bioinformatics

Creed J, Aden-Buie G, Monteiro A, Gerke TA

SELECTED PRESENTATIONS

Reproducible Data Workflows with Drake 2019-07-19

Bio-Data Club at Moffitt Cancer Center

garrickadenbuie.com/talk/drake-intro-biodataclub/

A Gentle Guide to the Grammar of Graphics with ggplot2 2018-11-06

Workshop on Data Analysis Using R (ASA at USF)

garrickadenbuie.com/talk/gentle-ggplot2-usf-asu/

VOLUNTEER EXPERIENCE

INFORMS Student Chapter at USF

2013 — 2015

President (2014-2015), Other Roles

Served as President of the USF student chapter of INFORMS, the leading international association for Operations Research and Analytics professionals.

- Started a student-led monthly journal club to share and disseminate cutting-edge publications in statistics, machine learning, and operations research.
- Organized and led a college-wide code and data bootcamp for undergraduate and graduate students, featuring hands-on learning of data science and programming principles.

Peace Corps

2008 — 2009

Youth Development Specialist

Served in the Peace Corps in Gualaceo, Ecuador, working in conjunction with local organizations to provide leadership training to children and youth.