

Robert Butler

Objective: To apply my programming expertise to build tools, systems, and processes that allow for automation of department work and that provide the means to find powerful insights from department data.

Work Experience & Volunteer History

Senior Clinical Data Management Associate • Gilead Sciences

Mar 2019 – Present

- Used SQL and R to find insights and create visualizations from Gilead's audit trail database.
 - Database consisted of several hundred million observations and several dozen tables across >200 studies.
 - Metrics were used to identify user & site KPIs, patterns within entered data, and errors arising during study activities.
- Led trainings to teach data managers how to use R and Python to more efficiently complete clinical trial activities.
- Currently building a web application with Python's Django module to provide automation solutions for Gilead's data management department.

Clinical Data Management Associate II • Gilead Sciences

Jun 2016 – Mar 2019

- Developed interactive dashboards with R's Shiny package to visualize clinical trial data, identify inaccuracies, and find safety concerns within subject data.
- Created Excel workbooks with embedded VBA scripts to help data managers complete clinical trial activities more rapidly.
- Developed e-case report forms across HIV, Liver Disease, Respiratory / Inflammation, and Oncology therapeutic areas.
- Presented at multiple CDM department meetings to provide walkthroughs of new tools and processes.
- Designed and implemented machine-readable data transfer specification templates for use with multiple vendors.
- Developed training slides and led for 4 department trainings, with topics including EDC study development & testing, study data quality review, use of web-based reporting tools, and automated validation of data transfers.

Clinical Data Management Associate I • Gilead Sciences

Aug 2015 – Jun 2016

- Supported 7 Phase I, I-b, and II clinical trials.
- Programmed multiple custom listings through JMP Scripting Language and VBA.
- Prepared auditing documentation and records for 5 clinical trials.

Clinical Data Manager • BioClinica (Previously Synarc)

May 2014 – Aug 2015

- Managed imaging analysis for 13 trials under the Musculoskeletal therapeutic area, and supported Oncology, Neurology, and Cardiology the therapeutic areas.
- Programmed various data transfers, edit check listings, custom reports, image transfers, and email notification systems using SAS 9.3 and Oracle SQL.

Imaging Analysis Technician • BioClinica (Previously Synarc)

May 2013 – May 2014

Volunteer • Lawrence Berkeley National Laboratory - Geomicrobiology Dept.

Spring 2011 – Spring 2013

Personal Projects

Fantasy NBA Draft Optimization:

2018 – 2019

- Collected NBA player data through web-scraping and web APIs into JSON, XML, and CSV formats.
- Consolidated NBA data into a flat structure, to feed it into software that predicted future player performance.
- Created an algorithm to choose the most cost-effective NBA players, based on predicted performance and salary.
- Developed visualizations to review how accurate predicted player scores were, based on actual player scores.

Education

University of California, Berkeley • Bachelors of Science, Microbial Environmental Biology

May 2013

Technical Skills

Programming & Software:

- R (Tidyverse, Htmlwidgets, Flexdashboard, Shiny, etc.)
- Python (Django, Plotly, Pandas, etc.)
- SQL (Oracle, Sybase, & MySQL)
- SAS 9.3
- Windows, Macintosh, and UNIX/Linux operating systems
- Microsoft Office (Outlook, Excel, Word, PowerPoint)
- Microsoft Visual Basic (VBA)
- JMP 13, & JMP Scripting Language