Jordan Mark **Barbone, M.A.**

Data Scientist, R Developer

West Chester, PA

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R programmer with experience in statistical programming, monitoring, and report automation in cognitive and CNS clinical trials

Skills

R - Advanced	package development, data analysis, statistical programming, data visualization, ETL/Data integration, tidyverse (dplyr, ggplot2, purrr, tidyr, devtools, etc), Rmarkdown
Other programming experience	Intermediate: Python Basic: SQL, Git, SAS, cmd, Rust
Clinical trials	clinical data management programming, centralized monitoring, eCOA, data review, Rater training and qualification
Psychology	behavioral statistics, research methods, cognitive psychology, learning psychology

Experience

Data Scientist
New Haven, CT (Remote)

Cogstate
Jun 2021 - Present

- Tasked with building, developing, deploying and maintaining databases, data models, reporting systems, data automation systems, dashboards and performance metrics, supporting key business needs.
- Build, develop, deploy, maintain data models, reporting systems, data automation systems, dashboards and performance metrics
- Support the creation of data visualization tools, Statistical Analysis Plans, research, scientific publications
- Collaborate with business development science, scientific services, project management, scales management, statistics, and data management teams internally, and external collaborators, to support data related processes and questions.
- Information in preparation for interactions with auditors
- Interact with sponsors to resolve scientific queries and participate in study planning.
- Interact with project management, scales management, statistics, and data management teams internally to support scientific processes and questions.
- Write clinical study reports, analytic reports, and business requirement documents.
- Drive research, including scientific publications, trial outcome measures, rater training, and trial methodology.

Principal Data Analyst
Conshohocken, PA

Madrigal Pharmaceuticals, LLC
Dec 2019 - Jun 2021

- Developed, analysed scripts and packages in R; developed custom functions, analytic packages for creation of daily metrics and reports; unit testing, documentation; maintained source code control
- Aggregated and organized data sources in STDM, ADaM, TFLS, and pre-finalized formats; compiled source data from multiple vendor data bases and reports; reconciled differences between databases
- Analyzed efficacy, safety, and exploratory data for: ongoing phase 3 studies in NASH and NAFLD; ad hoc analyses for phase 2; biomarker and PRO
- Used, reviewed, and reported on statistical testing such as: ANCOVA, LS-Means, ROC, Kruskal-Wallis, Wilcoxon rank sum, t-test, correlations (Pearson product, Spearman rho, Kendall's tau)
- Trained and onboarded data analyst

Clinical Data Scientist
Wayne, PA

Signant Health (Formerly Bracket and CRF Health)
Jan 2019 - Nov 2019

- Interacted with and analyzes CNS, psychiatry, and neurology clinical trial data quality and outcomes information for clinical insights
- Developed and implemented new data products and deliverables for blinded, statistical data monitoring and review; maintained and enhanced current data products; advised new analytic and machine learning initiatives; identified data sources and aggregation processes; defined and updated processes for deliverables; point of contact for analytic deliverables; presented information using data visualization techniques.
- Reviewed and developed analyses with SME for detection of errors for study endpoints; collaborated with review of analytic findings
- Trained and supervised of Data Scientists; developed and provided training for new and current processes, programming, and technologies/software; lead, organized team meetings and status updates; wrote and reviewed new process documentation.
- Assisted Program Managers and Project Delivery Managers for process implementation for data products and deliverables for blinded, statistical data monitoring and review; provided consultation for programming and development for Clinical Data Management; liaised between Data Services and Clinical Science teams; provided analytic and research support for Clinical Science.

Clinical Data Specialist
Wayne, PA

Bracket
Jan 2018 - Dec 2018

- Interacted with and analyzes CNS, psychiatry, neurology clinical trial data quality and outcomes information for clinical insights; collaborated with other Bracket stakeholders and teams to execute and provide ongoing analysis related to study deliverables or internal needs.
- Developed training material development and QC; performed data review, eCOA user acceptance testing; study staff contact, sponsor contact, contact with outside experts, report writing.
- Maintained, classified clinical information/materials; reviewed scale administration/scoring; provided clinical feedback, remediation for raters.

Clinical Associate
Wayne, PA

Bracket
May 2016 - Dec 2017

- Participated in applicable aspects of clinical content development and delivery, including training material development and QC, data review, eCOA user acceptance testing, study staff contact, sponsor contact, contact with outside experts, and report writing
- Maintained, classified clinical information/materials for CNS, psychiatry, neurology clinical trials
- Provided data review for Bracket's Endpoint Reliability programs; clinical analysis on study endpoint data for administration and scoring calibration to standard training principles; and provided remediation as needed to recalibrate to study standards.

Clinical Assistant
Wayne, PA

Bracket
Aug 2015 - May 2016

- Developed object specific video material, clinical content for training and qualification programs for study staff in clinical trials; addressed and reviewed data quality issues; clinical scheduling; ensured compliance with quality assurance, participate in reporting, analysis activities and research activities (e.g., collection and dissemination of literature and/or data); prepared reports of clinical activities.

Writing Tutor
224 Lawrence Center, West Chester, PA 19383

Learning Assistance & Resource Center
Aug 2014 - May 2015

- Tutored in 1-2 person sessions to develop skills necessary for effective writing, as well promoted independent and active learning.
- Monitored efficiency of the Academic Development Program and growth of students through maintaining daily session activity logs, utilizing Bloom's Taxonomy, biweekly student reports, and semester evaluations.

Education

Master of Arts
West Chester, PA

West Chester University of Pennsylvania
Aug 2017 - May 2019

- General Psychology, Advisor: Geeta Shivde, Ph.D.
- Thesis: The effects of participant-selected background music on executive function task performance
- GPA: 4.00

Non-degree Graduate Student
West Chester, PA

West Chester University of Pennsylvania
Aug 2016 - Jun 2017

- Classes in Statistics, Research Methods, and Psychometrics
- GPA: 4.00

Bachelor of Arts
West Chester, PA

West Chester University of Pennsylvania
Aug 2011 - May 2015

- Major in Psychology, Minor in Biology
- Cumulative GPA: 3.470, Major GPA: 3.834

Tutoring

Effective Writing
West Chester, PA

Learning Assistance and Resource Center, West Chester University of Pennsylvania
Aug 2014 - May 2015

Psychology of Learning
West Chester, PA

Psi Chi, Psychology Department, West Chester University of Pennsylvania
Aug 2014 - May 2015

Introduction to Biopsychology
West Chester, PA

Psychology Department, West Chester University of Pennsylvania
Aug 2014 - Dec 2014

Biopsychology of Motivation & Emotion
West Chester, PA

Psychology Department, West Chester University of Pennsylvania
Aug 2014 - Dec 2014

Behavioral Statistics
West Chester, PA

West Chester University of Pennsylvania
Aug 2014 - May 2015

Research Methods in Psychology
West Chester, PA

West Chester University of Pennsylvania
Aug 2014 - May 2015