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 data models, reporting systems, data automation systems, dashboards and performance metrics
- Maintain reporting systems and dashboards
- Support the creation of data visualization tools and Statistical Analysis Plans.
- 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.
- Support research, including scientific publications.
- · Maintain data management and scientific operations
- Monitoring of study data in Cogstate's data management
- Information in preparation for interactions with auditors
- Identify and lead one or more of Cogstate's continuous process improvement initiatives by seeking to understand client needs and engaging Cogstate staff across the company
- 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

MADRIGAL PHARMACEUTICALS, LLC

Conshohocken, PA

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
- 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

Jan 2019 - Nov 2019

SIGNANT HEALTH (FORMERLY BRACKET AND CRF HEALTH)

- 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
- · 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

Clinical Data Specialist Wayne, PA

BRACKET Jan 2018 - Dec 2018

· Interacted with and analyzes CNS, psychiatry, and 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 and classified clinical information/materials. Reviewed scale administration and scoring to provide clinical feedback and 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 and classified clinical information/materials for CNS, psychiatry, and 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.

224 Lawrence Center, West Chester,

PA 19383 Aug 2014 - May 2015

LEARNING ASSISTANCE & RESOURCE CENTER

- 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

Writing Tutor

Master of Arts West Chester, PA

WEST CHESTER UNIVERSITY OF PENNSYLVANIA Aug 2017 - May 2019

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

Papers_

PEER REVIEWED PUBLICATIONS

- Solomon, T. M., **Barbone, J. M.**, Feaster, H. T., Miller, D. S., deBros, G. B., Murphy, C. A., & Michalczuk, D. (2019). Comparing the standard and electronic versions of the Alzheimer's disease assessment scale cognitive subscale: A validation study. *The Journal of Prevention of Alzheimer's Disease*, 6(4), 237–241. https://doi.org/10.14283/jpad.2019.27
- Irani, F., **Barbone, J. M.**, Beausoleil, J., & Gerald, L. (2017). Is asthma associated with cognitive impairments? A meta-analytic review. *Journal of Clinical and Experimental Neuropsychology*, 39(10), 965–978. https://doi.org/10.1080/13803395.2017.1288802

MASTER'S THESIS

Barbone, J. M. (2019). The effects of participant-selected background music on executive function task performance (Master's thesis, West Chester University of Pennsylvania). https://doi.org/10.13140/RG.2.2.34109.41446

Posters_

MADRIGAL - LIVER DISEASE

- Harrison, S. A., Taub, R. A., Karsdal, er, As, M., Franc, J., Bashir, tafa, Mu, **Barbone, J. M.**, Neff, G., Gunn, N. T., & Moussa, S. (2020, November). Algorithm for predicting advanced NASH fibrosis on screening biopsy in resmetirom phase 3 MAESTRO-NASH clinical trial. *Poster presented at the AASLD Liver Meeting Digit Experience conference*. American Association for the Study of Liver Diseases (AASLD).
- Younossi, Z. M., Stepanova, M., Taub, R. A., **Barbone, J. M.**, Moussa, S., & Harrison, S. A. (2020, November). Improvement of health-related quality of life is associated with improvement of fat fraction by MRI-PDFF in patients with nonalcoholic steatohepatitis treated with resmetirom. *Poster presented at the AASLD Liver Meeting Digit Experience conference*. American Association for the Study of Liver Diseases (AASLD).
- Harrison, S. A., Taub, R., **Barbone, J. M.**, Franc, J., & Karsdal, M. A. (2020, March). Resmetirom, a beta selective thyroid hormone receptor agonist, reduces net collagen III deposition in nonalcoholic Steatohepatitis. *Poster to have been presented at american association for the study of liver diseases (AASLD) emerging topic conference 2020, nuclear receptors in Nonalcoholic Fatty Liver Diseases (conference cancelled).*

SIGNANT HEALTH (BRACKET) - ECOA DATA QUALITY

- Roy, M., Brown, J., Hong, B., Benecke, R., Chen-Tackett, Z., Zhou, W., **Barbone, J. M.**, Feaster, H. T., & Sachs, G. (2020, September). eCOA prompted MADRS interview: Balancing through assessment and efficiency. *Poster presented at ISCTM*.
- Crittenden, K., Machizawa, S., Feaster, H. T., **Barbone, J. M.**, Hong, B., Verma, P., & Zhou, W. (2020, April). Cross-cultural differences in PANSS item ratings: Comparisons of six geo-cultural regions. *Poster presented at the 2020 Schizophrenia International Research Society (SIRS) Conference, Florence, Italy*. https://doi.org/10.1093/schbul/sbaa031.103
- Solomon, T. M., Feaster, H. T., Karas, S. M., Garcia-Valdecasas, M., **Barbone, J. M.**, DiGregorio, D. T., DeBonis, D., & Miller, D. S. (2019, July). The evolution of technology in data quality programs for Alzheimer's disease clinical trials: What have we learned and where are we going. *Poster presented at the Alzheimer's Association International Conference (AAIC), Los Angeles, CA, USA*. https://doi.org/10.1016/j.jalz.2019.06.4332
- Feaster, H. T., **Barbone, J. M.**, Miller, D. S., & Solomon, T. M. (2019, June). Rater remediation on the ADAScog leads to longitudinal improvement in clinical trial data quality. *Poster presented at the Alzheimer's Association International Conference (AAIC)*, *Los Angeles, CA, USA*. https://doi.org/10.1016/j.jalz.2019.06.3923

- Karas, S. M., **Barbone, J. M.**, Solomon, T. M., Hong, B., & Feaster, H. T. (2019, June). Impact of data quality programs on MMSE inclusion criteria in Alzheimer's disease clinical research trials. *Poster presented at the Alzheimer's Association International Conference (AAIC), Los Angeles, CA, USA*. https://doi.org/10.1016/j.jalz.2019.06.862
- **Barbone, J. M.**, Solomon, T. M., Feaster, H. T., Garcia-Valdecasas-Colell, M., & Miller, D. S. (2018, October). MMSE screening data quality for Alzheimer's disease studies across countries. *Presented at the 11th Clinical Trials on Alzheimer's Disease (CTAD), Barcelona, Spain*. https://doi.org/10.13140/RG.2.2. 27921.68966
- Garcia-Valdecasas-Colell, M., **Barbone, J. M.**, Solomon, T. M., Feaster, H. T., & Tott, N. (2018, October). Identifying impact of rater change on MMSE and CDR data in multi-national Alzheimer's disease clinical trials. *Presented at the 11th Clinical Trials on Alzheimer's Disease (CTAD), Barcelona, Spain*. https://doi.org/10.13140/RG.2.2.21210.80327
- Wessels, A. M., **Barbone, J. M.**, DiGregorio, D. T., Miller, D. S., Mullen, J. A., Sims, J. R., & Solomon, T. M. (2018, October). Lanabecestat- Rater performance and error characteristics of efficacy assessments in the DAYBREAK-ALZ study. *Presented at the 11th Clinical Trials on Alzheimer's Disease (CTAD), Barcelona, Spain*. Retrieved from https://bit.ly/32p18au
- Feaster, H. T., **Barbone, J. M.**, Garcia-Valdecasas-Colell, M., & Solomon, T. M. (2018, July). Electronic ADAS-Cog (eADAS-Cog) data quality: How do countries compare? *Poster presented at the 2018 Alzheimer's Association International Conference, Chicago, IL, USA*. https://doi.org/10.1016/j.jalz.2018.06.1373
- Karas, S. M., **Barbone, J. M.**, DeBonis, D., & Solomon, T. M. (2018, July). The use of statistical modeling to complement data quality programs. *Poster presented at the 2018 Alzheimer's Association International Conference, Chicago, IL, USA*. https://doi.org/10.1016/j.jalz.2018.06.066
- Solomon, T. M., Karas, S. M., **Barbone, J. M.**, DiGregorio, D. T., Miller, D. S., & Feaster, H. T. (2018, July). Analysis of the rates and types of errors on the enhanced eCOA version of the Alzheimer's Disease Assessment Scale Cognitive subscale and Mini-mental State Examination used in dementia clinical trials. *Poster presented at the 2018 Alzheimer's Association International Conference, Chicago, IL, USA*. https://doi.org/10.1016/j.jalz.2018.06.070
- Solomon, T. M., **Barbone, J. M.**, Miller, D. S., & Feaster, H. T. (2018, June). Pilot validation of an Electronic Alzheimer's Disease Assessment Scale Cognitive Subscale (eADAS-Cog). *Poster presented at the 2018 Alzheimer's Association International Conference, Chicago, IL, USA*. https://doi.org/10.1016/j.jalz.2018.06.719
- Seichepine, D. R., Solomon, T. M., Jacobs, E. B., **Barbone, J. M.**, DiGregorio, D. T., & Miller, D. S. (2018, February). Comparison between "flat" and "enhanced" eCOA of MMSE Attention and Calculation in clinical trials of Alzheimer's disease. *Presented at the ISCTM 14th annual scientific meeting, washington, D.C., USA*. https://doi.org/10.13140/RG.2.2.16193.61289
- Solomon, T. M., Feaster, H. T., **Barbone, J. M.**, & Miller, D. S. (2017, November). Utilizing audio review to improve ADCS-ADL data quality. *Poster presented at Clinical Trials on Alzheimer's Disease conference (CTAD)*, *Boston, MA, USA*. Retrieved from https://bit.ly/3mlKuOc
- Enger, B., & **Barbone**, **J. M.** (2017, October). Distribution of performance and incorrect rantings in qualification video scoring. *Poster presented at CNS Summit, Boca Raton, FL, USA*. https://doi.org/10.13140/RG.2.2.14096.46088
- Solomon, T. M., **Barbone, J. M.**, Karas, S. M., & Feaster, H. T. (2017, October). Longitudinal impact of audio review on data quality. *Poster presented at Clinical Trials on Alzheimer's Disease conference (CTAD), Boston, MA, USA*. Retrieved from https://bit.ly/2DYaFtd
- Feaster, H. T., Solomon, T. M., Abi-Saab, D., Vogt, A., **Barbone, J. M.**, Harrison, J., & Miller, D. S. (2017, July). The impact of electronic clinical outcome assessments (eCOA) on Alzheimer's disease clinical trial data quality. *Poster presented at the Alzheimer's Association International Conference, London, England, UK*. https://doi.org/10.1016/j.jalz.2017.06.1828

Butler, A., Feaster, H. T., Miller, D. S., & Barbone, J. M. (2017, May). Using iterative user experience design to improve electronic clinical outcomes assessment data quality. Presented at the ISPOR 22nd annual international meeting, Boston, MA, USA. Retrieved from https://bit.ly/3isANeP

WCUPA - ASTHMA AND MUSIC COGNITIVE

- Barbone, J. M., & Shivde, G. (2019, May). The effects of participant selected background music on executive task performance. Poster presented at the Association for Psychological Science, washington, D.C., USA. https://doi.org/10.13140/RG.2.2.26125.79842
- Barbone, J. M. (2018, November). Trends in self-reported use of music while studying: Implications for research. Poster presented at the Research and Creative Activity Day at West Chester University, West Chester, PA, USA. https://doi.org/10.13140/RG.2.2.14075.57124
- Irani, F., Barbone, J. M., & Beausoleil, J. (2015, August). The impact of asthma on cognitive functioning. Paper presented at the American Psychological Association Convention, Toronto, Canada.
- Barbone, J. M., Saxena, S., & Irani, F. (2015, July). Does asthma effect neuropsychological performance? A meta-analysis. Poster presented at the American Psychological Association Convention, Toronto, Canada.
- Mulligan, R. D., Barbone, J. M., Saxena, S., Carey-Jr, D., Clappsy, J., & Irani, F. (2015, March). Asthma cognition data collection. Poster presented at the west chester university psychology research day, west chester, PA, USA. Retrieved from https://bit.ly/2ZAD5kn
- Barbone, J. M., Saxena, S., & Irani, F. (2015, February). Neuropsychological performance in individuals with asthma: Two meta-analyses. Poster presented at the Eastern Psychological Association Conference, Philadelphia, PA, USA. Retrieved from https://bit.ly/3hu6JOi

Extracurricular activities

Chapter Graduate Liaison	West Chester, PA
PSI CHI CHAPTER, PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Dec 2017 - May 2019
Graduate Member	West Chester, PA
PSI CHI CHAPTER, PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Aug 2017 - Dec 2017
Peer Mentor	West Chester, PA
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Jan 2015 - May 2015
Chapter Secretary	West Chester, PA
PSI CHI CHAPTER, PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA	May 2014 - May 2015
Club Publicity Chair	West Chester, PA
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	May 2014 - May 2015
Student Member	West Chester, PA
STUDENT LIFE COMMITTEE, PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Sep 2013 - May 2014
Undergraduate Member	West Chester, PA
PSI CHI CHAPTER, PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Mar 2013 - May 2014
Undergraduate Member	West Chester, PA
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Aug 2012 - May 2014

Awards

WCUPA Psychology Service Award

West Chester, PA

PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA

Apr 2015

· Dedicated service to the Psychology Department through positions an undergraduate club, a student-faculty committee, and the honor society

Psychology Research Achievement Award

West Chester, PA

PSYCHOLOGY DEPARTMENT, WEST CHESTER UNIVERSITY OF PENNSYLVANIA

Apr 2015

· Involvement in research activities, poster presentations, and work on conducting and reporting on a meta-analysis for publication

West Chester, PA

LEARNING ASSISTANCE AND RESOURCE CENTER, WEST CHESTER UNIVERSITY OF PENNSYLVANIA

Apr 2015

• Successfully completed standardized CRLA training for tutors

CRLA Certified Tutor Level II

Dean's List West Chester, PA COLLEGE OF ARTS AND SCIENCES. WEST CHESTER UNIVERSITY OF PENNSYLVANIA Dec 2014 · Completed 12 or more graded hours in an academic semester and achieve a semester GPA of 3.670 or better **CRLA Certified Tutor Level II** West Chester, PA LEARNING ASSISTANCE AND RESOURCE CENTER, WEST CHESTER UNIVERSITY OF PENNSYLVANIA Dec 2014 • Successfully completed standardized CRLA training for tutors **Dean's List** West Chester, PA COLLEGE OF ARTS AND SCIENCES, WEST CHESTER UNIVERSITY OF PENNSYLVANIA May 2013 · Completed 12 or more graded hours in an academic semester and achieve a semester GPA of 3.670 or better Programming courses _____ **Data Scientist with R Track** DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/B95FA8556C521B7AEF3E27A695E162EB588622F1 Statistician with R Track DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/F5C18FDED8EFD5CE7DC57F91D14CDE3166F6439B **R Programmer Track** DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/09B64B5B5242159381D75837ED90198454E9FC58 **Data Analyst with R Track** DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/3041F1BFC05674C2E957C479FDDBB8F55573DB45 **R Programming** DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/327633AAE130FC18FD36A34A476D535CEFCF930D Importing & Cleaning Data with R Track DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/525FABE528901A0BBB048608D5C84E9C553E1805 **Machine Learning Fundamentals in R Track** DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/57ECB920DD927F26CBF2D25CAA0F689F131653B3 Statistical Fundamentals with R Track DataCamp HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/4A64ACC738CC6DCF6E19E5E7F9955C7A6DE410A0 Statistical Fundamentals with R Track (Old Track) DataCamp

HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/67629E7267C73B14E0DBD964A4B9D35F0957BDF0

HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/D7E95156F4DD81D658D48DFBBC1B8792D7164D7D

HTTPS://WWW.DATACAMP.COM/STATEMENT-OF-ACCOMPLISHMENT/TRACK/C5EE6F9F354942E37AE6D84115227D6B98BA5F78

HTTPS://GITHUB.COM/JMBARBONE/BARBONE-CV/BLOB/MASTER/DOCS/EPG194_CERTIFICATE OF COMPLETION.PDF

HTTPS://GITHUB.COM/JMBARBONE/BARBONE-CV/BLOB/MASTER/DOCS/ESP4RV_CERTIFICATE OF COMPLETION.PDF

Python Programming Track

SQL Fundamentals Track

SAS Programming 1: Essentials

SAS Programming for R Users

DataCamp

DataCamp

SAS

SAS