**Joshua Lambert, PhD, MS, MS**

Cell/Text: 859-620-4498

[joshua.lambert@uc.edu](mailto:joshua.lambert@uc.edu)

[GitHub](https://github.com/joshuawlambert/)

[LinkedIn](https://www.linkedin.com/in/joshua-lambert-10573063/)

*Biostatistician and Data Scientist interested in using statistical and machine learning methods to change the world. Highly motivated individual who loves to learn and be challenged.*

**BIO AND ACCOMPLISHMENTS \_\_\_\_\_\_\_\_\_\_**

Dr. Lambert is a Biostatistician and Data Scientist with expertise in the application of novel statistical tools toward large health related datasets. He is the co-creator of a novel statistical tool called the Feasible Solution Algorithm (FSA) and the author of the R package: rFSA (downloaded more than 17,000 times). His work has made an impact across many academic and business environments.

**STATISTICAL AND MACHINEL LEARNING SKILLS/TOOLS EXPERIENCE \_\_\_\_\_**

R, SAS, JMP, Python, TensorFlow, PyTorch, Keras, BUGS, AWS(S3, and E2), Docker , SQL, Snowflake, Linux, Shell Scripting, JavaScript, Visual Basic, ADA, Shiny, Tableau, REDCap, Latex, Word, Excel, Powerpoint, Access, Git, Github, Linear Models, Generalized Linear Models, LASSO, Ridge Regression, Elastic Net, Mixed Models, Principle Component Analysis(PCA), Partial Least Squares(PLS), Natural Language Processing(NLP), Classification and Regression Trees(CART), Random Forests(RF), Neural Networks(NN), Bayesian Statistics, A/B testing, Time Series Modeling, Monte Carlo Markov Chain(MCMC) simulation, Experimental Design, and much more.

**RELEVANT WORK EXPERIENCE**

|  |  |
| --- | --- |
| **Statistical Consultant**  **SAS Institute, SleepMe** | **2020 to Present**  **Remote** |
| About: Assisted SAS Institute in writing a white paper about [transitioning from SPSS to JMP](https://www.jmp.com/en_is/whitepapers/jmp/moving-from-spss-to-jmp-a-transition-guide-version-2.html). Assisted | |
| SleepMe in analyzing data relevant to an upcoming sleep product. | |
| **Assistant Professor, College of Nursing** | **08-2018 to Present** |
| **University of Cincinnati** | **Cincinnati, OH/Remote** |
| About: Led my own research team of PhD students on NIH funded projects where we utilize large EHR and Claims data. Taught PhD students Advance Multivariable, and Multivariate Statistics. | |
| **Research Assistant Professor** | **01-2018 to 08-2018** |
| **University of Kentucky** | **Lexington, KY** |
| About: Worked with a variety of Academic and Healthcare Professional teams to leverage their data to uncover key insights using EHR, GWAS, and Claims data. Taught MPH, MD, and PhD students Advance Multivariable Statistics, and [Modern Statistics in Machine Learning](https://github.com/joshuawlambert/STA695). | |
| **Statistical Research Coordinator Kentucky**  **University of Kentucky** | **01-2015 to 12-2017**  **Lexington, KY** |
| About: Worked with a variety of Academic and Healthcare Professional teams to leverage their data to uncover key insights using EHR, GWAS, and Claims data. | |

**FEATURED ACADEMIC PUBLICATIONS** [**(Over 35 Academic Publications)**](https://scholar.google.com/citations?user=2qFJqYEAAAAJ&hl)

**Lambert, JW**., Sandhu, H., Kean, E., Xavier, T., Brokman, A., Steckler, Z., ... & Stromberg, A. (Accepted 2022, waiting public publication). A strategy to identify event specific hospitalizations in large health claims database. *BMC Health Services Research.*

**Lambert, JW.**, & Hawk, G. S. (2020). Identifying Pareto-based solutions for regression subset selection via a feasible solution algorithm. International journal of data science and analytics.

**Lambert, JW.**, Gong, L., Elliott, C., F., Thompson, K., & Stromberg, A. (2019). rFSA: An R Package for Finding Best Subsets and Interactions. The R journal, 10(2), 295.

**FORMAL EDUCATION \_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| University of Kentucky, Lexington, KY | 05-2014 to 12-2017 |
| PhD in Biostatistics and Epidemiology |  |
|  |  |
| University of Kentucky, Lexington, KY | 09-2012 to 05-2014 |
| Master of Science in Statistics, 2014 |  |
|  |  |
| Murray State University, Murray, KY | 05-2009 to 12-2010 |
| Master of Science in Mathematics, 2010 |  |
|  |  |
| Murray State University, Murray, KY | 09-2005 to 05-2009 |
| Bachelor of Science in Mathematics, 2009 |  |

**RELEVANT RESEARCH OR PROGRAM GRANTS (ACTIVE)**

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| --- | --- | --- | --- |
| **Dates** | **Title** | **Funding Organization** | **Role** |
| 06/2022-05/2024 | Secondary Analysis Exploring Interactions Influencing Outcomes of Prenatal Opioid Exposure in a Large Maternal and Infant Data Hub. | Ohio Attorney General’s Office | Principle Investigator |
| 04/20/2021-03/31/2023 | Identifying existing, FDA-approved drugs with clinically protective effects against coronavirus disease 2019 using a big data approach | National Libraries of Medicine-R21 | Principle Investigator |

**SOFTWARE (MORE AVAILABLE UPON REQUEST \_\_\_\_\_\_\_\_\_\_**

[rFSA R package for running a Feasible Solution Algorithm. Version 0.9.1, Joshua Lambert](https://cran.r-project.org/web/packages/rFSA/index.html)

**PRESENTATIONS \_\_\_\_\_\_\_\_\_\_**

I have given many international, national, and regional presentations over the years. Please reach out to me for a full list.

**MEDIA \_\_\_\_\_\_\_\_\_\_**

* 2022 **Magazine: Beating COVID with Big Data**
  + - [Featured Article and Interview for University of Cincinnati Nursing Magazine. Winter 2022.](https://issuu.com/ucnursing/docs/uc_nursing-winter_2022-hyperlinks)
* 2021 **Podcast: Statistics for DNPs (Feat. Dr. Joshua Lambert)**
  + - [Interviewed by Mr. Ian Lane about my recent paper in the Journal of Nursing Education about Statistical Tools for DNP students.](https://open.spotify.com/episode/6A9etBfI3iH0UuW6S5QrCF)