

Brendan Graham

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Highly effective and thoughtful data scientist with graduate-level training and industry experience. I am interested in advocating for how data can be a force for better decision making, and I enjoy the both the rigorous and creative aspects of being a data scientist.

Experience

Children's Hospital of Philadelphia

Data Scientist II, Center for Healthcare Quality and Analytics

Philadelphia, PA

June 2016 - Present

- Created several data science products in the capacity management space, including an 8 week ICU census prediction model and a post-operative length of stay prediction model
- Conducted an analysis that improved scheduling of Vertical Expandable Prosthetic Titanium Rib (VEPTR) surgeries by using data to identify two distinct patient populations, the result of which helped improve operating room efficiency by aligning expected case length with actual case length
- Created an interactive analysis to support the post-COVID ramp up of elective surgeries, which allowed hospital operations leaders to adjust assumptions related to operating room capacity and visualize how changes to inputs affected the time frame in which the surgical backlog would be completed
- Pioneered data science within CHQA by becoming one of the first data scientists on the team, as well as actively participate in several internal initiatives as a reviewer on our code review team and by contributing to our internal R package

GRA, Inc.

Economist

Philadelphia, PA

2009-2016

- Researched and drafted a report on the economic treatment of human life by conducting in-depth research into the value of statistical life, focusing primarily on how the Department of Transportation and FAA value human life
- Collaborated with research team in developing economic impact analyses for the Houston Airport System and the San Antonio Airport System, consisting of designing and administering surveys, on-airport visits & interviews, analyzing data and estimating regional economic impacts using U.S. Bureau of Economic Analysis methodology, and drafting final report

Presentations

rstudio::conf

Shiny New Things: Using R Bridge the Gap in Electronic Medical Record Reporting

San Francisco, CA

2020

*A recording is available **on the R Studio website***

Education

Villanova University

MS in Applied Statistics

Villanova, PA

2016

Temple University

BBA in Economics

Philadelphia, PA

2009

Skills

Data Science

- Exploratory Data Analysis
- Data Visualization & Dashboards
- Predictive Modeling (*data pre-processing, model specification, model tuning/cross validation, model implementation, performance monitoring*)

- Clear, Concise & Reproducible Data Analysis
- Time Series Modeling
- Statistical Process Control
- Survival Analysis

Programming

- R (tidyverse, tidymodels, shiny, Rmarkdown)
- SQL
- Version Control (GitHub)
- CI/CD (Jenkins, Airflow)
- Python
- Docker
- AWS Sagemaker

Communication

- Clear communicator with ability to lead meetings and engage with technical and non-technical stakeholders
- Able to scope projects and manage timelines
- Strong focus on the importance of a shared mental model, especially when working with a cross functional team
- Eager to learn new concepts, adopt best practices and collaborate with other areas (*i.e. data engineering & data governance*)