

Ben Barnard

Data Science Leader



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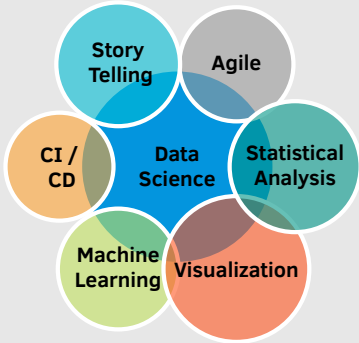
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BenBarnard

Skills

Overview



Programming

C++ • SQL • Python • SAS
shiny • R • rmarkdown
ggplot2 • \LaTeX

Education

Dec 2021	M.B.A.	University of the People
2018	Ph.D., Statistical Sciences Dissertation: A Power Contrast of Tests for Homogeneity of Covariance Matrices in a High-Dimensional Setting	Baylor University
2016	M.S., Statistical Sciences	Baylor University
2013	M.S.Ed., Exercise Physiology	Baylor University
2011	B.S., Exercise Science	University of Texas at Arlington

Experience

May 2018 - Present	Data Scientist	Wells Fargo	<ul style="list-style-type: none">Model development lead for Human Resources allegation team workforce capacity and turnover models.Development lead for Human Capital Key Risk Indicators.Developer of 20 internal R packages using agile development with 2-week sprints and daily asynchronous stand-ups in Skype chat groups.Enterprise Product Steward for R and Rtools monitoring intake and maintenance of new versions, and mitigating security vulnerabilities for ~2500 installs across the enterprise.Led transformation of team to use software development life-cycle appropriate tools such as GitHub, Jenkins, and Artifactory.Led the creation of Human Resources Modeling Center of Excellence that centralized Human Resource model development (100+ automated production models), and streamlined recruitment of new data scientists.
Aug 2017 - Present	Statistics Instructor	University of South Alabama	<ul style="list-style-type: none">Coordinator for design and instruction of Applied Statistics for Health Sciences courses.Implementation of Quality Matters and Team Based Learning instructional methods in undergraduate statistics sequence of courses.Directed consulting and student led research for tumor risk and classification models using neural network, Bayesian and ensemble based methods.Course design in Sakai, Blackboard, and Canvas learning management systems.
Aug 2011 - Aug 2017	Graduate Assistant	Baylor University	<ul style="list-style-type: none">Developer for conversion rate key performance indicators on graduate applications.Model developer for student success gradient boosting machine model using XGBoost.Designer of A/B testing for the Graduate School website and application pages.Model developer for applicant and graduate student segmentation clustering models using k-means clustering.Developer for automated reporting on applications and enrollment data using D3.js, SAS reporting studio, Shiny server.Model developer for athlete injury prediction model using recurrent neural network in tensorflow.Statistical analysis on paleosol composition using semi-parametric models in PROC TRANSREG.

Presentations

- Feb 2019 **Conference on Statistical Practice**
Automated Building and Storing Frozen Data in R Packages Using Travis and Drat.
- Mar 2019 **University of Miami Biostatistics Department**
Automated Building of R Packages Using Travis and Drat for data, shiny, and websites.
- Aug 2019 **Joint Statistical Meetings**
A Journey Teaching Applied Statistics for Health Sciences in an Asynchronous Team Based Learning Format using Data Science Ideas.
- Jan 2020 **rstudio::conf**
The good, the bad and the ugly: What I learned while consulting across the business as a data scientist.
- Aug 2020 **Joint Statistical Meetings**
A Comparative History of Programming in Statistics and Data Science.

Short Courses

- Feb 2020 **Conference on Statistical Practice**
Building LaTeX Templates for R Markdown to Produce Branded PDF Reports

R Packages

- Apr 2017 - Present **rWishart**
Random Wishart Matrix Generation
- Jun 2016 - Present **covTestR**
Covariance Matrix Tests
- Jul 2016 - Present **likelihoodExplore**
Likelihood Exploration

Service

- Jan 2019 - Dec 2021 **Council of Sections** American Statistical Association
Executive council member for the Section of Statistical Programmers and Analysts representing the section on the council of sections.
- Oct 2018 - Present **Peer Journal Reviewer** Journal of Statistics Education
Reviewer in the areas of Data Science, multivariate, and health sciences statistics education.