Robert C. Garrett

Statistics Student
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EDUCATION

Miami University Oxford, OH   Graduating May 2019
B.S. in Mathematics & Statistics, Predictive Analytics.
Minors in Computer Science and Operations Research.

Statistics Courses
Introduction to Statistical Modeling, Probability, Regression Analysis, Statistical Programming, Statistical Learning, Data Visualization, Inferential Statistics, Time Series

Mathematics Courses
Linear Algebra, Calculus 1-3, Differential Equations, Abstract Algebra, Real Analysis, Numerical Analysis, Optimization

Computer Science Courses
Object Oriented Programming, Data Structures, Database Systems, Algorithms

FIELD EXPERIENCE

Cincinnati Children's Hospital Department of Biostatistics and Epidemiology   May 2018-Present

Cincinnati Childhood Allergy and Air Pollution Study (CCAAPS)

Compared the effectiveness and efficiency of Voronoi diagrams vs. square rasters in interpolating Random Forest predictions over the Greater Cincinnati area

Pediatric Obesity Weight Evaluation Registry (POWER)

Aggregated and visualized quarterly data on the progess of Pediatric Obesity patients at 30+ hospitals in the US

Working to evaluate the effect of latitude on Vitamin D deficiencies in Pediatric Obesity patients

IBM Research Triangle Park, NC   May 2017-May 2018

Integrated cognitive tools such as Watson Machine Learning, SPSS modeler, and R into blockchain networks in order to provide real-time analysis to users

Undergraduate Associate Miami University   January 2018-May 2018

STA 467: Statistical Learning *Dr. Karsten Maurer*

Held office hours to help guide the term project (predicting basketball statistics using various ensembles of machine learning algorithms in R)

RESEARCH EXPERIENCE

Government Section on Statistics Data Challenge American Statistical Association

    2017 Joint Statistical Meetings, *Presenter and Third Place winner*

        Utilized BLS data to analyze consumer expenditures throughout the Great Recession and predict future budgeting habits

    2016 Joint Statistical Meetings, *Team Member*

        Scraped crash safety rating data from NHTSA and IIHS to create a database for the project

ASA DataFest

    2018 Miami University, *First Place*

        Merged Indeed.com and US Census data to visualize labor surplus/deficit in the technology sector using Voronoi diagram heatmaps

    2017 Miami University, *Third Place*

        Worked with Expedia data to indentify behavior corresponding to users who ultimately book a trip rather than just browse the website

    2016 Miami University, *First Place*

        Manipulated and visualized 3GB of Ticketmaster data to create an ad suggestion algorithm

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PUBLICATIONS

Papers

An analysis of crash-safety ratings and the true assessment of injuries by vehicle Computational Statistics, (accepted based a satisfactory minor revision)

Garrett, R. C. and Fisher, T. J.. 2017. An Analysis of Consumer Budgeting and the Great Recession. In 2017 JSM Proceedings. Alexandria, VA: American Statistical Association.

R packages

Garrett, R. C., Nar, A., Fisher, T. J.. 2018. ggvoronoi: Voronoi Diagrams and Heatmaps with 'ggplot2'. R package

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AWARDS AND HONORS

University Academic Scholars Program (2015-2018), Dr. Donald C Weber Memorial Scholarship (2017 and 2018), Eric E Erickson Memorial Scholarship (2018), EY scholarship (2017), President's List (Fall 16, Spring 17, Fall 17), Dean's List (Fall 15, Spring 15, Spring 18)