Travis Byrum

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Education

2013 **B.S. Statistics and B.A. Political Science**, *Duke University*, Durham, NC.
Coursework Includes: Multivariable Calculus, Linear Algebra, Probability, Mathematical Statistics, Data Analysis/Statistical Inference, Regression Analysis, Bayesian/Modern Statistics, Decision Theory, Statistical Consulting, Survey Statistics.
Senior Thesis: *Wavelet-Based Functional Modeling of Accelerometer Data in Fitness Intervention Study*
Dean's List Fall 2011, Fall 2012, and Fall 2013

Technical Skills

Languages: R, Python, SQL, LaTeX

Tools: IPython, matplotlib, numpy, scikit-learn, git, Github, BeautifulSoup, Sweave, Shiny, ggplot2, MapReduce, AWS, Markdown, Microsoft Office

Statistics and Machine Learning: Classification, Regression, Clustering, Ensembles, Dimensionality Reduction, Hypothesis Testing, Decision Analysis, Bayesian Statistics, Nonparametric Methods

Experience

October 2015 - Current **Morning Consult Data Scientist**, Washington, DC.
- Worked directly with company co-founders on all phases of polling projects including survey creation, monitoring and data analysis
- Developed R package to automate in house survey creation, monitoring, and adjustment for the polling team
- Developed R package to connect to Lucid Fulcrum via the Fulcrum API to allow polling and data team members to programmatically interact with Fulcrum
- Helped to improve statistical standards for the company's polling methodology
- Constructed and validated various models for primary and election forecasting

October 2014 - June 2015 **Milwaukee Bucks Analytics Intern**, Milwaukee, WI.
- Used the web application framework Shiny in the R programming environment to create a portal for distributing important information to coaches and front office employees
- Constructed statistical models for tasks such as forecasting career outcomes for drafted players and predicting the efficiency of lineup combinations
- Designed a framework for performance metrics to aid in player evaluation using several statistical methods
- Worked directly under the Bucks' Director of Analytics along with front office employees and coaches to assist in evaluating the team's on-court performance

June 2013-April 2014 **North Carolina Common Sense Analyst**, Durham, NC.
- Synthesized North Carolina government finances for public viewing as part of a Duke student-led public policy initiative
- Quantified information on state budgetary reports using the R programming environment and assisted the team's coders in creating data visualizations

August-December 2013 **Teaching Assistant, Duke Statistics Department**, Durham, NC.
- Helped conduct the *Probability/Statistics in Engineering* course at Duke University
- Instructed one of the course's associated lab sections
- Assisted students during office hours