

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 , Microsoft Office
Tools: IPython, matplotlib, numpy, scikit-learn, git, Github, BeautifulSoup, PostgreSQL, Sweave, Shiny, ggplot2, MapReduce, AWS
Statistics and Machine Learning: Classification, Regression, Clustering, Ensembles, Dimensionality Reduction, Hypothesis Testing, Decision Analysis, Bayesian Statistics, Nonparametric Methods

Experience

- October 2014 **Milwaukee Bucks Analytics Intern**, Milwaukee, WI.
- June 2015
 - 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
 - Conducted statistical and policy analysis on state budgetary operations
 - 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
- July-August 2012 **Duke Political Science Summer Research Assistant**, Durham, NC.
 - Assisted in creation of observational study on economic growth in developing countries
 - Compiled information on economic growth indicators using statistical software
 - Handled diagnostics and management of the study's primary dataset to assess quality and usability