

Travis T. Byrum

8520 Foxbridge Drive
Matthews, NC 28104
☎ +1 (704) 930 8478
✉ travis.tbyrum@gmail.com
🌐 [travisbyrum](https://travisbyrum.com)

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 , Markdown, JavaScript, CSS, HTML, Java
Tools: IPython, scikit-learn, Flask, BeautifulSoup, D3.js, caret, Shiny, ggplot2, git, Sweave, knitr, Unix Utilities, AWS, MySQL, PostgreSQL
Statistics and Machine Learning: Classification, Regression, Mixed-Effects Models, Clustering, Ensembles, Dimensionality Reduction, Hypothesis Testing, Decision Analysis, Bayesian Statistics, Nonparametric Methods, Data Visualization

Experience

- October 2015 **Morning Consult Data Scientist**, Washington, DC.
- Current
 - Work directly with company co-founders on all phases of polling projects including survey creation, monitoring, and data analysis (*Research has been cited by: **The Washington Post**, **New York Times**, **538**, **Fortune Magazine**, **The Hill**, **ABC**, **Huffington Post**, **Vox**, **Bloomberg**, among others*)
 - Write and maintain software packages for in-house modeling and data visualizations using Python and R
 - Developed data infrastructure and API integrations for automatic reporting
 - Constructed and validated state and congressional-level election forecasts based on national surveys using multilevel regression and post-stratification (MRP)

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 strategic 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 **North Carolina Common Sense Analyst**, Durham, NC.
2013-April
 - 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- **Teaching Assistant, Duke Statistics Department**, Durham, NC.
- December 2013
 - 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