

# Robert C. Garrett

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Statistics Student

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## Education and Coursework

*Miami University* Oxford, OH

Graduating May 2019

B.S. in Mathematics & Statistics, Predictive Analytics.

Minors in Computer Science and Operations Research.

### *Statistics Courses*

Regression Modeling, Probability, Regression Analysis, Statistical Programming, Statistical Learning, Data Visualization, 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

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## Research Experiences

*Government Section on Statistics Data Challenge*

January-July 2016

Scraped crash safety rating data from NHTSA and IIHS. Created and cleaned a database for the project. Worked with two other students to present work at the Joint Statistical meetings and submit a paper to *Computational Statistics*.

*Miami University DataFest*

May 2016

Assembled and led a team of freshman classmates to compete in Miami Universities first annual DataFest. Manipulated and made visualizations with 3GB of Ticketmaster Data. Won Best in Show award for our network plots and ad suggestion algorithms.

*Government Section on Statistics Data Challenge*

January-July 2017

Utilized BLS data to analyze consumer expenditures throughout the Great Recession. Presented our findings at the Joint Statistical Meetings. Won 3rd place by modeling the budget behaviors of U.S. consumers. In the process of submitting my findings to *Computational Statistics*.

*Miami University DataFest*

May 2017

- Worked with user experience data from Expedia to investigate the behavior of “browsers” vs. “buyers”
  - Used alluvial diagrams to plot user journeys and suggest courses of action to entice long time users to book a hotel
  - Won third place for our presentation
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## Publications

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## **Skills**

*Proficient in:*

R (ggplot2, dplyr, data.table, shiny, stringr, various statistical learning packages), SAS, SPSS Modeler, IBM Bluemix, Watson Machine Learning, Java, Javascript

*Data Science skills:*

Web scraping and API calling, Data Visualization, Dashboard Building, Web Development, Predictive Modeling

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## **Employment**

*IBM Research Triangle Park, NC*

May 2017-Present

Integrated cognitive tools and blockchain networks and automated quarterly incident report summaries while working with R, Watson Machine Learning, and Hyperledger Fabric.

*Undergraduate Associate Miami University*

January 2018-Present

Worked with Dr. Karsten Maurer as an Undergraduate Associate for his STA 467 Statistical Learning course. Helped students with learning and troubleshooting R and provided office hours to help with the term project.