

# Doug Raffle

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## EDUCATION

### WEST VIRGINIA UNIVERSITY

#### MS IN STATISTICS

Expected Aug 2015 | Morgantown, WV

### CALIFORNIA UNIVERSITY OF PENNSYLVANIA

#### BS IN COMPUTER SCIENCE

#### MINOR IN MATHEMATICS

Grad. May 2013 | California, PA

## LINKS

#### Portfolio://

[stat.wvu.edu/~draffle/portfolio.html](http://stat.wvu.edu/~draffle/portfolio.html)

#### Github://

[github.com/raffled/](https://github.com/raffled/)

#### LinkedIn://

[linkedin.com/in/raffled](https://www.linkedin.com/in/raffled)

## SKILLS

### MAJOR SKILL SETS

Data Technologies  
Statistical Modeling  
Multivariate Analysis  
Data Mining/Machine Learning  
Big Data Analytics  
Software Development  
Data Visualization  
Text Mining  
Technical Writing/Presentation

### TECHNOLOGIES/PLATFORMS

Microsoft Office  
JMP  
Hadoop/MapReduce  
Linux/Unix  
RStudio

### PROGRAMMING LANGUAGES

Strong  
R  
HTML/XML  
 $\LaTeX$   
Markdown/R Markdown

#### Familiar

C/C++  
Java  
JavaScript  
LISP  
Python  
SQL

## EXPERIENCE

### WEST VIRGINIA UNIVERSITY | GRADUATE TEACHING ASSISTANT

August 2013 – May 2015 | Department of Statistics | Morgantown, WV

- Taught a lecture section of an introductory level Statistics course.
- Taught and graded laboratory sections of undergraduate Statistics courses, where the students review concepts and get hands-on experience using Statistics to solve realistic problems.
- Worked in our Statistics Tutoring Center to help students master concepts.
- Worked with the director of the Master's of Data Science program to design online coursework.

### WEST VIRGINIA UNIVERSITY | GRADUATE RESEARCH ASSISTANT

May 2014 – Sept. 2014 | West Virginia Dialect Project | Morgantown, WV

- Consulted with linguists on evaluating and creating analysis workflows.
- Cleaned, shaped, and performed Exploratory Data Analysis on large data files generated by speech-processing software (Praat).
- Built and evaluated Linear and Generalized Linear Mixed Effects models used in the investigation of sociolinguistic trends.
- Reported results in a manner accessible to wide audiences.

### CALIFORNIA UNIVERSITY OF PENNSYLVANIA

#### UNDERGRADUATE RESEARCH ASSISTANT

Sept. 2010 – May 2013 | The Lexomics Project | California, PA

- Used Hierarchical Clustering algorithms to analyze works of literature for stylistic variation.
- Presented at several conferences and co-authored a paper explaining our methodology and results.

### THE WHEATON LEXOMICS GROUP | RESEARCH INTERN

Summer 2012 | Wheaton College | Norton, MA

- Worked directly with professors of Statistics and Computer Science to develop, test, and document software for performing and visualizing cluster analysis in text mining.
- Evaluated and implemented various machine learning and statistical methods to further analyze the features that are most indicative of clustering behavior and perform cluster validation.

## CONSULTING

### SELLITTI, NOGAY & MCCUNE, PLLC

June 2015 | Weirton, WV

- Analyzed a survey conducted by the court to determine if local news stories had biased potential jurors against the defendant in a murder case.
- Wrote a report used as evidence in a hearing to determine if outside jurors needed to be used.

## AWARDS AND GRANTS

2014 Outstanding Graduate Teaching Assistant Award (WVU)  
2012 Second Place - Student Scholarship and Creativity Day (CalU)  
2011 Jesse B. Guttman Student Research Grant  
2011 Third Place - Student Scholarship and Creativity Day (CalU)