

# 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

## SKILLS

### MAJOR SKILL SETS

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

### TECHNOLOGIES/PLATFORMS

Microsoft Office  
SPSS  
JMP  
SQL  
Hadoop/MapReduce  
Linux/Unix  
Microsoft Windows  
Mac OSX  
Emacs  
RStudio

### PROGRAMMING LANGUAGES

Strong  
R  
HTML/XML  
LaTeX  
Markdown/R Markdown  
MySQL

#### Familiar

C/C++  
Java  
JavaScript  
LISP  
Perl  
Python  
Oracle SQL

## SUMMARY

I am a data scientist and statistician with a strong background in both software development and statistical analysis. My experience in teaching and research has allowed me the opportunity to not only learn and implement a variety of statistical and machine learning models, but to hone my presentation skills and work closely with experts in a variety of fields. My goal is to find a challenging position where I can solve novel problems and make data-driven policy recommendations.

## EXPERIENCE

### WEST VIRGINIA UNIVERSITY | GRADUATE TEACHING ASSISTANT

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

- Work with lecturers and professors to develop teaching and evaluation strategies.
- Teach and grade for laboratory sections of undergraduate Statistics courses, where the students review concepts and get hands-on experience using Statistics to solve realistic problems.
- Work in our Statistics Tutoring Center to help students master coursework from any of our department's classes, from 100- to 400-level, in a one-on-one environment.

### WEST VIRGINIA UNIVERSITY | GRADUATE RESEARCH ASSISTANT

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

- Consulted with linguists and to evaluate and create 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 Medieval Latin and Old English manuscripts 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.

## 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)