

# Megan Willis

## CAREER OBJECTIVE

Upcoming M.S. graduate with an aptitude for learning and a strong background in Programming, Statistics, and Data Analysis. Seeking a challenging career-building Data Scientist position.

## EDUCATION

**Boston University, Boston, MA — *Master of Science in Biostatistics***

ANTICIPATED DEC 2023

3.39 GPA

**Simmons University, Boston, MA — *Bachelor of Science in Data Science and Analytics***

MAY 2022

3.84 GPA.

Minors in Biostatistics, Mathematics, and Computer Science.

## EXPERIENCE

**Vertex Pharmaceuticals, Inc., Boston, MA – *Statistical Programming Extern***

OCT 2022 - PRESENT

Use Ggplot2 and Plotly to create interactive graphics in R for Type 1 Diabetes Clinical Trial data.

Implement an R Shiny application to house the interactive graphics for study Statisticians to better visualize Clinical Trial data.

**Simmons University, Boston, MA – *Research Assistant***

JUNE 2021 - JUNE 2022

Worked on a team of four Research Assistants to label speech data.

Translated Python script to prepare data for analysis to R program, and created a working method for feature extraction.

Used neural networks and feature importance to investigate prosody in R.

**Simmons University, Boston, MA – *Teaching Assistant***

SEP 2020 - DEC 2021

Assisted Professors by grading assignments in Mathematics, Statistics and Computer Science.

Helped students understand concepts during class and labs, as well as during one-on-one meetings.

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## SKILLS

R(Tidyverse, R Markdown, Shiny, Plotly, RJAGS, Ggplot2), Python(Pandas, Matplotlib, Pyplot), SAS, Java, C++, SQL.

Predictive Modeling, Data Visualization, Data Wrangling, Data Analysis, Machine Learning (Neural Networks, Naive Bayes, Random Forests, KNN, SVM), Bayesian Modeling, Statistical Methods, Linear and Logistic Regression, Agile Method.

Collaboration, Self-management, Planning, Organization, Time-management.

## AWARDS

**Pi Mu Epsilon Society**  
Member

**Sigma Xi Honors Research**  
Society Member

## RELEVANT COURSEWORK

Statistical Programming, Probability, Mathematical Statistics, Bayesian Modeling for PH, Advanced Linear Algebra, Applied Statistics for Clinical Trials, Linear Models, Data Mining, Applied Data Science, Calculus 1-3.

