

## Experience

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### Westfield Insurance

*Lead Personal Lines Analyst*

Westfield Center, Ohio  
September 2019 - Present

- Created interpretable machine learning models (decision trees, generalized linear models) to analyze feature importance and report key findings for why policies are issued and cancelled.
- Responsible for all data steps in Westfield's \$17 million auto premium refund including determining eligibility, calculating the refund amount, and the financial impact to Westfield.
- Analyzed and reported impacts of Westfield's new Vehicle History Score and Insurance Score modeling and how those changes impact our book of business (especially certain segments of customers).
- Simulated impact of transfer book price matching to determine how long the planned implementation would take to yield overall premium growth and the optimal rate change to apply.
- Creation of an excel database for underwriters to track engagement and goals for their agencies, as well as these metrics reported at a territory and agency organization level over time.

### The University of Akron

*Statistical Consulting*

Akron, Ohio  
August 2018 - December 2019

- Assisted clients in statistical interpretation, creation of graphs, and report writing.
- Determined experimental design, required sample size, and necessary power calculation to ensure the quality of the statistical model.
- Cleaned and analyzed datasets in Python, R, and SPSS.
- Applied decision trees and interpreted results for a nutritional study concerning caffeine's relationship with diabetes.
- Implemented hypothesis testing to detect changes in hearing loss between regular police officers and those assigned to K-9 units.

## Skills/Projects

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### Created a personal website hosted on Github using R Markdown and HTML

[www.kylejeffreese.com](http://www.kylejeffreese.com)

- Analyzed Pew Research Data on library usage with decision tree and logistic regression models to determine common traits that individuals who go to the library possess.

**Software:** Experience with SQL, Python, R, Tableau, Excel, SPSS, HTML, CSS; basic SAS and C++

## Education

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### The University of Akron

*Masters of Science in Statistics*

Akron, Ohio  
June 2018 - Now

**Thesis:** Relating to fMRI Spatio-Temporal Analysis

### The University of Akron

*Bachelors of Science in Statistics*

Akron, Ohio  
June 2016 - December 2018

**Thesis:** The Influence of Invasion Timing on Invasion Success as Predicted by an ODE Model of Competing Species in the Presence of Infectious Disease