

David Teuscher

STUDENT IN M.S. STATISTICS PROGRAM

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Education

Brigham Young University (GPA: 3.85)

Provo, UT

MS IN STATISTICS, BS IN STATISTICS WITH EMPHASIS IN APPLIED STATISTICS AND ANALYTICS

Sep. 2016 - Apr. 2022

- Relevant Courses: Introduction to Regression, Advanced Bayesian Statistics, Statistical Computing, Analysis of Correlated Data, Analysis of Variance, Probability and Inference, Intro to Linux, Intro to Python, SQL

Brigham Young University

Provo, UT

BA IN RUSSIAN

Sep. 2016 - Apr. 2022

- Relevant Courses: 19th Century Russian Literature, 20th Century Russian Literature, Fundamentals of Science and Engineering in Russian

Experience

Data Science Team Leader

Provo, UT

BRIGHAM YOUNG UNIVERSITY

May 2020 - Present

- Explain data science concepts to students such as data cleaning, feature engineering, model tuning, and model validation
- Lead teams of 3-4 students in machine learning competitions through the Kaggle platform
- Explain how to approach different types of problems in data science and machine learning (classification, regression, multinomial classification, time series, etc.)

Research Assistant: Dr. Matthew Heaton

Provo, UT

BRIGHAM YOUNG UNIVERSITY

May 2020 - Present

- Compare predictive ability of models using statistical methods against neural nets for non-linear relationships
- Implementation of an artificial neural net to predict irrigation zones based on simple to measure factors, such as field topography, elevation and past crop yields
- Estimated model parameters, including neural net weights and biases via Markov chain Monte Carlo sampling

Research Assistant: Dr. Gilbert Fellingham

Provo, UT

BRIGHAM YOUNG UNIVERSITY

Sep. 2018 - Aug. 2020

- Investigate offensive efficiency of MLB players in order to be able evaluate the worth of a player and estimate potential salary when negotiating a contract
- Gather and clean data from the Lahman database and from Fangraphs, filtering the data for missing values or extreme values
- Fit polynomial performance curves for players using R and make predictions for player performance over time to determine the worth over time
- Implementation of various Bayesian nonparametric models to determine which model minimizes prediction error

Research Assistant: Dr. Adam Dynes

Provo, UT

BRIGHAM YOUNG UNIVERSITY

May 2019 - Apr. 2020

- Creating a master dataset of Republican members of the House of Representatives in order to analyze connection between attendance rates at caucus meetings and voting with the party.
- Cleaned multiple datasets in order to format them the same so that they could be merged together
- Merging and appending of multiple datasets together

Teaching Assistant

Provo, UT

BRIGHAM YOUNG UNIVERSITY

Sep. 2018 - Apr. 2020

- Assistant for R Programming, SAS Programming, Intro to Regression, and Statistical Computing classes
- Explain common and advanced coding practices and techniques to beginner and advanced programmers
- Increase students' understanding of how R, SAS, Python, and SQL work and enable them to debug their own code

Skills

PROGRAMMING LANGUAGES

- Intermediate Proficiency: R, SQL, Python, SAS
- Novice Proficiency: HTML, CSS, Stata, C++, VBA, Tableau, Domo

OTHER

- Advanced Mid Russian Fluency (ACTFL certified)
- Member of American Statistical Association (2016-present)
- Member of Mu Sigma Rho Presidency at BYU (2019-present)