

Casey L. Wahl

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EDUCATIONAL BACKGROUND

Bachelor of Science, **Applied and Computational Mathematics** (ACME)

April 2019

Brigham Young University — Provo, UT

- Emphasis in **Machine Learning/Data Science**
- Minor in Business Management
- GPA: 3.78/4.0
- Vice President BYU Data Science Club

Topics in Coursework: Natural Language Processing
Deep Learning
A/B Testing
Theory of Predictive Modeling

Numerical Methods
MCMC
Bayesian Statistics
Dynamic Systems

Optimal Control Theory
Optimization
Linear Algebra
Multi-Variable Calculus

TECHNICAL SKILLS

Machine Learning (intermediate understanding) — Regression/LASSO, XGBoost, random forest, KMeans, Deep Learning

Python (advanced proficiency) — Scikit-Learn, PyTorch, SciPy, NumPy, Pandas, matplotlib, NLTK, jupyter, web scraping

C++ (basic proficiency) — Data structures, algorithms, object oriented programming

Microsoft Office — Excel, PowerPoint, Word (basic proficiency with customizing macros in VBA)

Web Development (working knowledge) — JavaScript, JQuery, HTML, CSS, Flask

Other (basic to intermediate proficiency) — MongoDB, SQL, Tableau, Unix Shell, Git, MatLab, parallel programming

WORK EXPERIENCE

Data Science Intern

May 2018 – Present

Progressive Leasing — Draper, UT

- Performed exploratory data analysis which led to finding an inadvertently tested customer segment
- Improved fraud detection by 2% for a customer segment
- Created a feature selection method across multiple models using an API
- Conducted statistical tests and data visualization using Python
- Retrieved and combined data from databases using SQL
- Built, analyzed, and compared statistical and machine learning models for forecasting revenue

Data Scientist

May 2017 – May 2018, September 2018 – Present

BYU FHSS Computing Services — Provo, UT

- Created a program to recommend majors for students using various deep learning methods
- Built an entire website and sentiment analysis tool using JavaScript, HTML, MongoDB, and Python
- Received approval to have sentiment analysis tool implemented for one of the colleges after presenting to officials
- Generated analytic reports with data visualizations for university officials
- Compared Google Cloud Platform and Microsoft Azure sentiment API performance
- Performed tests using a High-Performance Computer

Mathematics Instructional Design Assistant

August 2015 – May 2017

BYU Independent Study — Provo, UT

- Led an 8-person team to coordinate workflow for creating an AP BC Calculus course
- Revolutionized workflow by creating algorithms to overcome tedious limitations of software

AWARDS

Won \$1,000 as grand prize of Zenabi Case Competition March 2018 — created data science strategies for an NBA team

1st place BYU ACM Programming Competition, October 2018 — out of 63 teams

2nd place BYU ACM Programming Competition, March 2018 — out of 33 teams

4th place BYU ACM Programming Competition, November 2017 — out of 68 teams