

Dr. Daniel Mortensen, PhD

DATA SCIENTIST

EXPERIENCE

Assistant Professor of Chemistry | Brigham Young University

APR 2017 - AUG 2021, PROVO, UT

- Taught general chemistry and statistics in chemistry (both remote and in person) using excel and various software tools: Zoom, Adobe Premiere Pro, etc.
- Approximately 700 students in total with the help of more than 20 different teaching assistants.

Core Facility Director | Mass Spectrometry / Cell Sorting | Brigham Young University

APR 2017 - AUG 2021, PROVO, UT

- Used big data analysis techniques to analyze biological samples, managed data storage and transfer, wrote reports, etc.
- Managed 6 employees in a dynamic research environment, including responsibility assignment, problem solving, conflict resolution, and scheduling.
- Directed 2 core research facilities, containing about \$3 million in scientific equipment, servicing multiple research groups across various departments.
- Managed budgets, including charges, expenses, depreciations, and equipment purchases and repairs.

EDUCATION

BrainStation | Diploma: Data Science

JULY - OCT 2021, ONLINE

Codecademy | Certificates: C++, HTML, CSS, JavaScript, React

JAN - AUG 2020, ONLINE

UC Berkeley | PhD, Chemistry

JULY 2011 - 2016, BERKELEY, CA

8 peer reviewed publications, including one using Visual Basic for modeling the motion of gas particles. Received Richard A. Schaeffer Memorial Fund Travel Award.

Brigham Young University | Bachelors Chemistry

AUG 2008 - APR 2011, PROVO, UT

2 peer reviewed publications. Received the Scott C. & Joanne H. Pugh Scholarship, five Undergraduate Research Awards for funding undergraduate research, and the Brigham Young Scholarship.

PROJECTS

Regression Models for Predicting Commodity Sales Prices ([link](#))

Various climate and market variables were used to model the annual and monthly sales price of US grain corn. 9 different regression models, including a neural network, were tested. The best models were obtained using XGBRegressor, resulting in R^2 scores of 0.950 and 0.986 for annual and monthly prices, respectively.

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PROFILE

Through chemistry, I've gained a strong background in using statistics and mathematical modelling to solve scientific problems. Now, I want to apply these skills to finding business solutions. Through data science, I feel I can be a powerful and rapid contributor to profitability and success.

SKILLS

Statistics, SQL, Python, Hypothesis Testing, A/B testing, Parametric and non-Parametric Tests, Tableau, Matplotlib, Plotly, Seaborn, Sklearn, Scikit-Learn, XGBoost, Tensorflow, Pytorch, AWS, Hadoop, Spark, Hive, Jupyter, CSS, HTML, JavaScript, Visual Basic, C++, Command Line, Microsoft Office