

KAYLYN VO
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EDUCATION

Master of Science in Statistics	Expected: Fall, 2021
San José State University, GPA: 3.6/4.0	San José, CA
Bachelor of Science in Applied Mathematics	Spring, 2019
San José State University	San José, CA

RELEVANT COURSEWORK

Statistics

- Regression Theory, Time Series Theory and Methods, Multivariate Statistical Analysis, Design and Analysis of Experiments, Computational Statistics, Probability Theory

Programming

- Python, SQL, R programming, C++

EXPERIENCES

Big Data Visualization: Explore and Visualize Features of Dry Beans	Spring, 2021
<i>Python: NumPy, Pandas; MATLAB</i>	

- Applied dimension reduction techniques to reduce the complexity structure of the data for further data exploration
- Performed comprehensive exploratory data analysis and produced clear visualization of analytic results to communicate data insights

Predict House Prices Using Advanced Regression Theory Techniques	Fall, 2020
<i>Python: NumPy, SciPy, Scikit-learn, Pandas, Matplotlib</i>	

- Cleansed (missing data, outlier detection), designed new features, visualized data, and tuned model parameters
- Built and validated regularized regression models – Ridge and Lasso – and machine learning models – Random Forest and Gradient Boosting – to predict the price of a house

Analyze Concentrations of Organic Toxins in Farmed Salmon	Fall, 2020
<i>Python, R, Excel, Tableau</i>	

- Analyzed the concentrations of contaminants in farmed salmon using multivariate analysis techniques including Principal Component Analysis and MANOVA

Analyze Weather Patterns Using 600 Years of Earth Sediments Deposits	Fall, 2019
<i>R, Excel</i>	

- Utilized auto and partial correlation functions and spectral analysis for data exploration and identifying trends
- Built forecasting models – ARMA(p,q) and MA(p) – to analyze weather patterns

Help PASSNYC to Identify Underperforming Schools	Fall, 2019
<i>Python: NumPy, Pandas, Matplotlib</i>	

- Gathered, preprocessed, and cleansed large and messy public data from a variety of sources
- Identified underperforming schools and made recommendations to increase the diversity of students taking the High School Admission Test in New York City

LEADERSHIP

Resident Advisor at San Jose State University	Fall, 2019 – Spring, 2021
<ul style="list-style-type: none">• Managed a residence hall of 200+ ethnically diverse residents with two other Resident Advisors• Planned and implemented weekly resident engagement programs to promote the experience of fostering community through academic wellness, peer exploration, and diverse communication	

SKILLS

Statistics and Machine Learning: ANOVA, MANOVA, Hypothesis Testing, A/B Testing, Regressions, Multivariate Regression, Random Forest, XGBoost, SVM, PCA

Languages: Python, R, SQL, SAS, SPSS, C++, MATLAB

Tools: RStudio, Excel, Jupyter Notebook, Git, Tableau, PowerBi