

# Kaylyn Vo

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## Education

### Master of Science in Statistics

San José State University

Expected: Dec., 2021

San José, CA

### Bachelor of Science in Applied Mathematics

San José State University

May, 2019

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

## Experience

### Big Data Visualization: Explore and Visualize Features of Dry Beans

May, 2021

*Python: NumPy, Pandas; MATLAB*

- Applied dimension reduction techniques to reduce the complexity structure of the data and turned million of rows of information into insights
- Performed comprehensive exploratory data analysis and produced clear data visualization of analytic results to communicate to a general audience

### Predict House Prices Using Advanced Regression Theory Techniques

Dec., 2020

*Python: NumPy, SciPy, Scikit-learn, Pandas, Matplotlib*

- 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

Dec., 2020

*Python, R, Excel, Tableau*

- Translated questions into problems that can be solved using statistical techniques
- 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

May, 2019

*R, Excel*

- 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

Jan., 2019

*Python: NumPy, Pandas, Matplotlib*

- 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

Aug., 2019 - May, 2021

- 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