

JOSEPH CHOI

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)
BACHELOR IN STATISTICS & DATA SCIENCE
June 2026

CLASS PROJECTS

INTRODUCTION TO STATISTICAL MODELS AND DATA MINING (STATS 101C)

- Built a predictive model to forecast monthly Amazon spending for each U.S. state (2018–2022) using demographic, temporal, and customer behavior data.
- Engineered and mined new predictors to capture spending and price variability trends.
- Performed exploratory data analysis and preprocessing with tidymodels in R—handled missing values, created dummy variables, and generated multiple recipes.
- Trained and tuned multiple models (Linear Regression, Random Forest, XGBoost) using cross-validation and Latin Hypercube sampling for hyperparameter search.
- Performed a separate classification project using similar modeling techniques to predict categorical outcomes and compare model performance across multiple algorithms.

INTRODUCTION TO DESIGN AND ANALYSIS OF EXPERIMENTS(STATS 101B)

- Designed and implemented a controlled experiment to study how external factors influence short-term physical performance using principles of experimental design and statistical analysis.
- Designed a Randomized Complete Block Design experiment, applying randomized blocking, ANOVA, and post-hoc testing to evaluate treatment effects and interpret significant differences

INTRODUCTION TO DATA ANALYSIS AND REGRESSION (STATS 101A)

- Built a multiple linear regression model to predict wind speed from key weather variables (temperature, humidity, pressure, visibility) using Kaggle's Szeged Weather dataset (2006–2016)
- Performed exploratory data analysis, diagnostic testing (VIF, residual plots, Breusch-Pagan test), and variable selection to refine model performance.

ADDITIONAL SKILLS

- Skills with mainly R for coursework (tidymodels, tidyverse, dplyr, ggplot2).
- Relevant Python Course: Python for Data Science (NumPy, pandas, matplotlib, sci-kit-learn).
- Relevant Stats Courses: Data Analysis and Regression, Design and Analysis of Experiments, Statistical Models and Data Mining, Computational Statistics with R, Computation and Optimization for Statistics, Monte Carlo Methods
- Relevant Math Courses: Calculus 1 & 2, Multivariable Calculus, Differential Equations, Linear Algebra

WORK EXPERIENCE

BLUE AGE JEANS
Internet Sales Manager
2016-2021

- Started the internet retail/wholesale sales for a company that only did offline wholesale.
- Launched and oversaw all internet sales including platforms such as Amazon, Ebay, FashionGo, etc.
- Developed advertising strategies and plans based on target audience and budget.