Xin Yi Yang
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EDUCATION

University of California, Los Angeles   Los Angeles, CA
B.A., Political Science; GPA: 3.9   December 2024
Relevant Coursework: Introduction to Data Analysis and Regression, Design and Analysis of Experiment, Statistical Models and Data Mining; Programming with R; Principles and Practices of Computing (Python); Causality X (Causal Inference)

Cypress College   Cypress, CA
A.A., Political Science; GPA: 4.0   May 2022
Relevant Coursework: Comparative Politics; Intro Probability Statistics

California State University of Long Beach   Long Beach, CA
Economics; GPA: 4.0   May 2021
Relevant Coursework: Principles of Macroeconomics and Microeconomics

RESEARCH INTERESTS

Political violence, migration, and economy development

RESEARCH EXPERIENCE

University of California, Los Angeles (*all are class research projects*)   Los Angeles, CA
Predicting Obesity Status, Dept. of Statistics and Data Science   September – December 2024
Statistics 101C: Introduction to Statistical Models and Data Mining
- Predicted individual's obesity using random forest regression model and confusion matrix with full accuracy and 0.017 misclassification rate.
- Explored patterns in data using box plots, cleaned data using mice package in R, and reduced number of significant categorical and numerical predictors using density plots and stacked bar charts.
- Presented data analysis and methodology portion of project to broader audience.

Virtual Study on Endorphin Levels, Dept. of Statistics and Data Science   August – September 2024
Statistics 101B: Introduction to Design and Analysis of Experiment
- Designed a study on the effects of chocolate and exercise on endorphin levels for adult women using two-way factorial randomized block design.
- Determined sample size of 162 virtual participants and factor diagram treatment and control using standard effect size in G-Power software.
- Ran boxplots and interaction plots to explored data before running ANOVA, Post-Hoc, and diagnostics analyses to discuss significant p-value and meet model assumptions.

Uber Travel Duration Predictive Model, Dept. of Statistics and Data Science   May – June 2024
Statistics 101A: Introduction to Data Analysis and Regression
- Explored and selected variables using histograms to then impute their missing values.
- Extracted Euclidean distance between start and end locations and encoded categorical variables to numerical using NumPy package in Python.
- Applied linear regression model training, evaluation, and feature importance to predict duration of uber travel time based on starting length and latitude.

Urban Violence Case Study on Chavez Ravine, Dept. of Political Science   April – June 2024
Political Science 191D: Research Seminar on Urban Violence in 21st Century
- Researched violent urban redevelopment of Chavez Ravine housing project using conflict mapping and conflict casing (empirical and theoretical frameworks).
- Lead meetings to discuss and synthesize three analytical lenses among each member.
- Presented the life cycle framework on poster presentation at closing conference.

Haiti: Community Program Policy Report, Dept. of Political Science   October – December 2023
Political Science 167D: Political Institutions and Economic Development
- Investigated political instability of natural disasters in Haiti to identify policy problem on lower-income communities and social sector with data visualizations.
- Proposed 20-page policy solution and evaluation to reorganize, extend, and incentivize operations of a local, disaster management committee under the World Bank.
- Presented policy issue and proposal using web-based poster to broader audience.

Randomized Experiment: Reducing Screentime, Dept. of Political Science   February – March 2023
Political Science 170A: Statistical Analysis of Political Data
- Designed control and treatment surveys of knowledge and belief targeting videos to address the behavioral problems on social media overuse of UCLA students.
- Feature extracted and encoded covariates before using scatterplot to visualize treatment versus control group.
- Calculated and interpreted significant treatment effect size of the screen time between control and treated group.

Labor Disparities of Student Workers, Dept. of Labor Studies   November – December 2022
Labor Studies 101: Introduction to Labor and Social Movements in Los Angeles
- Interviewed student's working conditions using guided questions to evaluate student workers' exploitation.
- Compiled interview transcription, analysis report, and letter to editor on the disparities of labor relations.

SKILLS

Data analysis and visualization:
Intermediate in R
Intermediate in Python

CERTIFICATIONS

Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans	October 2023
Collaborative Institutional Training Initiative: Human Subjects Research	November 2022

HONORS & AWARDS

Dean's Honors List, UCLA	2023 - 2024
Honors Program, Cypress College	2021- 2022
President's Honor List, Cypress College	Fall 2021

REFERENCES

Gloria Badal
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