

Ken Vu

GRADUATE STUDENT IN STATISTICS

California State University - East Bay, Hayward, CA

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Education

California State University - East Bay

Hayward, CA

MS STATISTICS

Jan 2021 — May 2023

- GPA: 4.0

San Jose State University

San Jose, CA

BS APPLIED MATHEMATICS, MINOR IN COMPUTER SCIENCE

Aug 2018 — May 2020

- GPA: 3.7
- President's Scholar (Fall 2018)
- Dean's List (Fall 2018)

Work Experience

City of San Jose

San Jose, CA

CIP GRADUATE STUDENT INTERN

Dec 2022 — Present

- Support sampling activity during the startup and testing of the new Temperature Phased Anaerobic Digesters (TPADs) at the San Jose-Santa Clara Regional Wastewater Facility (RWF)

California State University - East Bay

Hayward, CA

TEACHING ASSOCIATE

Aug 2022 — Dec 2022

- Taught two undergraduate-level co-requisite labs for introductory statistics courses for classes of 24 students each

RESEARCH ASSISTANT

May 2022 — Jul 2022

- Co-designed a process in Python to load in, process, and visualize signal data under the supervision of Dr. Derek J. Kimball of the Department of Physics
- Simulated data at different frequencies using the Normal distribution to determine the threshold needed to detect signal data

San Jose Conservation Corps + Charter School

San Jose, CA

PERFORMANCE MONITORING & EVALUATION FELLOW

Jun 2021 — Aug 2021

- Determined the outputs, outcomes, and indicators for their respective environmental projects (i.e. community composting, food rescue, e-waste collection, etc) as well as the tools and procedures for measuring them
- Applied natural language processing (NLP) techniques in R to analyze survey data regarding workshop feedback
- Contributed to the enhancement of policymaking decisions impacting the effectiveness of environmental conservation projects

San Jose-Evergreen Community College District

San Jose, CA

RESEARCH ASSISTANT

Feb 2019 — Aug 2019

- Designed, administered, and distributed more than 3000 online surveys campus-wide and district-wide via Qualtrics to help assess the college community's needs and inform policymaking decisions
- Created and disseminated documentation (i.e. literature reviews, presentation slides, etc) and research summaries that highlight relevant metrics measuring the impact of higher education initiatives on different student demographics

Community Service

The Cal State East Bay ASA Student Chapter

Hayward, CA

COMMUNICATIONS CHAIR AND CO-FOUNDER

Nov 2021 — Present

- Manage the organization's social media channels, emails, and correspondence within and outside the organization regarding the organization's news, updates, and activities via email, LinkedIn, Discord, and other online platforms
- Build a community of students interested or majoring in statistics (and other related areas) through in-person outreach events, social media, and other relevant channels
- Provide opportunities for students to develop and enhance their leadership skills through various volunteer and social activities, including virtual hangouts and interactions with local & national-level statisticians

SJSU Best Buddies Student Chapter

San Jose, CA

1-1 FRIENDSHIP BUDDY AND MEMBER

Sep 2019 — Aug 2020

- Provided weekly and monthly check-ins with an assigned student with intellectual or developmental disabilities (IDD) in order to develop and maintain opportunities for practicing interpersonal relationships with one another

Mt. Pleasant Marine Corps Junior Reserves Officers' Training Corps (MCJROTC)

San Jose, CA

CADET (2011-2014), BATTALION EXECUTIVE OFFICER (2014-2015)

Aug 2011 — Aug 2015

- Coordinated with community organizers and other cadets at various community events & activities to provide the personnel and logistical support needed to successfully run and manage these events (i.e. set-up, cleanup, parking security, etc)

Skills

Research

DATA ANALYSIS & VISUALIZATION, STATISTICAL LEARNING, RESEARCH METHODOLOGY, NATURAL LANGUAGE PROCESSING, STATISTICAL INFERENCE, ANALYSIS OF VARIANCE

Programming languages

R, PYTHON, SQL

Personal

TIME MANAGEMENT, LEADERSHIP, ORAL & WRITTEN COMMUNICATION, RESOURCEFULNESS

Tools

R/RSTUDIO, GITHUB, JUPYTER NOTEBOOK, GOOGLE SUITE, TABLEAU

Project Experience

Unemployment in STEM

Sep 2022 — Oct 2022

CALIFORNIA STATE UNIVERSITY - EAST BAY

- Created data visualizations (i.e. jitter plots, bar plots, etc) with R and ggplot2 to analyze associations between a major's unemployment rate and its respective major category (i.e. Engineering, Health, etc)

Gender Wage Inequality in STEM

Mar 2022 — May 2022

CALIFORNIA STATE UNIVERSITY - EAST BAY

- Conducted exploratory data analysis with R and ggplot2 that showed higher proportions of men in typically more higher paying and technical fields (i.e. Computer Science, Engineering, etc) than in areas such as Health and Physical Sciences
- Analyzed data using ANOVA (Analysis of Variance) to show that the major category (i.e. Engineering, Health, etc) has a significant effect on the median salary of each major in the data set

Event Category Disparities in Elm City Stories

Apr 2022

CALIFORNIA STATE UNIVERSITY - EAST BAY

- Wrangled, cleaned, and visualized data using R and various packages from the tidyverse to identify the top three event categories taking up the most time across all schools
- Presented our findings to a panel of statistics professors, which resulted in our team winning "Best in Show" at the American Statistical Association's DataFest competition at California State University - East Bay

Professional Affiliations

American Statistical Association

2022 — Present

MEMBER

The Honor Society of Phi Kappa Phi

2019 — Present

MEMBER