

# Ken Vu

GRADUATE STUDENT IN STATISTICS

California State University - East Bay, Hayward, CA

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## Education

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### 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

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### 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

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### 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

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### 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

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### 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

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### American Statistical Association

2022 — Present

MEMBER

### The Honor Society of Phi Kappa Phi

2019 — Present

MEMBER