# MONTE DAVITYAN

Email: monte@csu.fullerton.edu

LinkedIn: monte-davityan

## EDUCATION

*PhD and M.A. in Statistics (Incoming)*, UC Santa Barbara                                    *June 2028*

*B.S. in Computer Science*, California State University, Fullerton                              *June 2023*

*B.A. in Mathematics (Concentration in Statistics)*, California State University, Fullerton    *June 2023*
*Overall GPA: 3.84*

## PROFESSIONAL EXPERIENCE

**+ Southern California Coastal Water Research Project - Data Engineering (Oct 2021 - Oct 2022)**:
Data engineer in the water quality technical team working on automation of data processing, cleaning, and analyzing tasks.

**(1) ETL (Extract/Transform/Load) Pipeline:**

- Implemented automated pre-processing of water flow data from remote servers
- Performed statistical analysis on water flow data using Python

**(2) Database Design and Development:**

- Designed and developed database schema and data tables in MySQL DBMS for internal tasks.

**(3) Full Stack Web Development:**

- Created a Flask dynamic web user interface for water flow visualization
- Deployed the website to an AWS server using Docker

**+ UC Irvine Data Science Internship (June 2022 - August 2022)**: Cancer Research

- Exploring and modeling longitudinal data of patient symptom burden who suffer from Myeloproliferative neoplasms (MPN) cancer, with an assigned response to lifestyle changes

**+ National Science Foundation - Research Internship (June 2021 - August 2021)**: Modeled the probability distribution of customers with power of an arbitrary electrical power grid.

- Researched and implemented efficient algorithms to model the probabilities of failure of specific power grid components based on its age.

**+ CSUF - Research Data Analyst (November 2020 - June 2021)**: Data Visualization and analysis of college volleyball matches

- Created a player tracking pipeline that extracts coordinates of player positions using a pre- trained object recognition model

## HACKATHONS

**+ UCLA Datafest (May 2022):**

- Data cleaning, processing and exploration of a complex, large scale video game event log dataset

## COMPUTER SKILLS

| | |
|---|---|
| **Front-end Technologies:** | HTML/ CSS, JavaScript, PHP |
| **Back-end Technologies:** | C++, Java, Swift |
| **Data Engineering & Modeling:** | Python R, Tensorflow, SQL |
| **Other Skills:** | Docker, Flask, Git |