

# Marrion Macandog

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## EDUCATION

**M.S. Big Data Analytics, San Diego State University**

**Fall 2021 - Spring 2023**

Advisors: Dr. Ming-Tsou, Dr. Gabriela Fernandez

**B.A. Psychology, CSU Fullerton**

**Graduated Fall 2020**

Dean's List Fall 2020

## CLASS PROJECTS

*(In progress)* BDA-594: Hospital Mortality Analysis

Using medical data obtained from the MIMIC database, our team aims to apply machine learning methods to better understand factors predicting mortality rates among over 6 million observations between 2008 and 2019. Our process includes data wrangling and analysis using Python, visualizations on Tableau and R, documentation through GitHub, and a final video presentation, paper, and website. <https://bdagroup10.wordpress.com/>

*(In progress)* MIS-749: Predicting Airline Satisfaction

Our goal in this project is to find a model that best predicts airline customer satisfaction using various statistical learning methods on R. The dataset was obtained from Kaggle, and our next steps include pre-processing, EDA, visualizations, analysis, and report writing.

## RELEVANT EXPERIENCES

**Volunteer Research Assistant, SDSU Human Dynamics in the Mobile Age (HDMA)**

**07/2020 – Present**

- Search and collect relevant data from SANDAG, such as food waste and water systems, to add to the Sustainable Development Goals (SDG) dashboard for the Metabolism of Cities Living Lab hosted on ArcGIS
- Design survey to capture SDG awareness and practices of the SDSU community (students, faculty, staff) by evaluating relevant literature in collaboration with the director

**Research Assistant III, SDSU Research Foundation (MERC)**

**07/2020 – Present**

- Lead over 25 field data collection events to collect, categorize, and track tobacco product waste in randomly selected blocks throughout San Diego County to supplement the center's research supporting policies to decrease tobacco product waste
- Create maps of blocks for field data collection events using feature layers on ArcGIS, such as SANDAG and Nearmap, to indicate perimeters, points of interests, and other geospatial attributes for research team and volunteers
- Manage over 3000 observations collected using ArcGIS online, QuickCapture, and Survey123
- Developed visualizations of waste collection progress on Tableau to provide monthly updates on the website and social medias

**Research Assistant, CSUF Center for Research of Educational Access and Leadership**

**08/2020 – 12/2020**

- Led a team of 3 research assistants to evaluate educational programs by organizing weekly meetings with the team, coordinating goals and responsibilities, and providing bi-weekly updates to the director
- Analyzed survey results of over 150 participants, assisted in focus groups and voice transcriptions, and presented data visualizations created on Excel
- Interpreted qualitative and quantitative data to review 3 programs implemented for underrepresented high school students to aspire for higher education in the Los Angeles county
- Conducted virtual training sessions for data cleaning and basic analysis on SPSS, Qualtrics, and SPSS for over 15 undergraduate and graduate students in the Psychology and Education department

## WORK EXPERIENCE

**Technical Recruiting Intern, Avetta, LLC, September 2019 – August 2020**

- Assisted the lead recruiter in pipelining over 30 open roles by coordinating interviews, screening candidates, and maintaining communications with applicants and hiring managers
- Managed campaigns on LinkedIn and reached over 400 engagements from potential candidates to interact with the company's profile

**Executive Intern, Target, LLC, June 2019 – August 2019**

- Shadowed various departments within an 8-week period and aided logistics, sales, and human resources team by managing floor operations, in-bound shipping, and assessing daily sales goals
- Conducted onboarding and trainings for over 15 new staff members, as well as monitor overtime and compliance issues for over 50 employees