Michelle Lam

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EDUCATION

Master of Environmental Data Science (Expected June 2023)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

<u>Highlighted Coursework:</u> Modeling Environmental Systems, Databases and Data Management, Analytical Workflows and Scientific Reproducibility, Machine Learning in Environmental Science (all complete by 6/23) <u>Leadership/Involvement:</u> Capstone Project Committee

Bachelor of Science in Environmental Science (June 2017) Santa Clara University (SCU), Santa Clara, CA

SKILLS

Languages: R (tidyr, dplyr, ggplot2), Python (NumPy, Matplotlib, Pandas, Xarray, Dask)

Environments: RStudio, JupyterLab, VS Code

Technical: Data Retrieval Through APIs, Data Cleaning and Preprocessing, Data Visualization, Geospatial Analysis

MASTER'S CAPSTONE DATA SCIENCE PROJECT

<u>Identifying Optimal Solar and Wind Co-Location Sites in the United States (1/23–Present)</u> <u>Role</u>: Data Manager | <u>Client</u>: Dr. Grace Wu, UCSB Environmental Studies Department

- Calculate the optimal ratio of solar to wind at over 3,000 potential co-location sites in Texas to spark interest in co-location as an efficient solution to help meet the demand for carbon-free electricity
- Obtain meteorological time-series data through National Renewable Energy Lab (NREL) APIs, model hourly
 energy output through NREL System Advisor Model (SAM), and run a linear optimization through the Pyomo
 package in Python
- Manage project priorities, tasks, and code with clear communication through GitHub Projects
- Create a methods section, policy brief, and interactive web application to communicate results

PROFESSIONAL EXPERIENCE

Baker Electric Home Energy, Escondido, CA

Business Systems Analyst I (8/19-7/22)

- Maintained accurate data and resolved systems issues within 6 different business applications
- Facilitated meetings with 50+ employees to define business, financial, and operational requirements
- Collaborated in the design, deployment, and user training of 3 new and 4 updated applications
- Advanced the development of an in-house app through user acceptance testing and user stories
- Reduced time from lead to proposal by 60% by adding new integrations to the sales proposal process

Sales Administrator (2/18-8/19)

- Generated key metric reports within Salesforce to provide insight into sales and product performance
- Supported a growing team of 15 sales consultants by ensuring accuracy of contracts and CRM platform, consolidating sales presentation materials within a repository, and coordinating promotions
- Initiated opportunities to learn additional roles and areas of the business

Associate Consultant – Silicon Valley Power, Santa Clara, CA (7/16-6/17)

- Preformed home energy audits to promote energy efficiency for residents of the municipal utility
- Represented Silicon Valley Power and engaged with hundreds of residents at 2 public events

CERTIFICATIONS & ADDITIONAL TRAINING

Certifications: Salesforce Administrator, LEED Green Associate

Data Trainings/Workshops: An iterative approach to streamlining your analytical workflows using functions and for loops, Teach Me How to Google, Debugging with RStudio, R Tips, Tricks & Keyboard Shortcuts, Intro to Shiny