

JOE DECESARO

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EDUCATION

Master of Environmental Data Science, (Expected June 2022)

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

Leadership: Class Co-Chair, Dean's Advisory Council Committee Student Representative

Highlighted Coursework: TBD based on job

Bachelor of Science in Materials Engineering, 3.42 GPA (June 2018)

California Polytechnic State University, San Luis Obispo

Honors/Awards: Dean's List (5 quarters)

Capstone: Developed engineering methodology to encourage designer accountability for product lifecycle

Leadership: Orientation Leader, Triathlon Team Head Bike Coach & MTS Race Sponsorship Lead

Study Abroad: Universidad de Navarra – Tecun (7/16-8/16)

MASTER'S CAPSTONE DATA SCIENCE PROJECT

Energy Siting (9/21-6/22) | Role: Project Manager | **Client**: Grace Wu, UCSB Environmental Studies

Deliverables: Prediction Maps, GitHub Repository, Final Presentation and Report, R Shiny App (Stretch Goal)

- Generated regression model to determine greatest predictors of siting renewable energy projects and used machine learning algorithm to predict most likely locations for future projects in the whole US in R
- Consolidated multiple sources of spatial data for regression model and machine learning algorithm in R
- Managed team of four to maintain schedule and reach goals on time using Zenhub and GitHub workflow

EXPERIENCE

Environmental Engineer Consultant II – Ashworth Leininger Group, Camarillo, CA (1/19-5/21)

- Consolidated and analyzed data and information to determine electrification feasibility and wrote a 15-page technical summary for a client to present to the California Air Resources Board (CARB)
- Managed onsite air, water, and hazardous waste environmental compliance for large glass manufacturing facility for a 6-month period
- Conducted onsite environmental regulatory gap analysis for various facilities and developed simple improvements to meet each client's unique needs
- Developed a Word template for Spill Prevention Countermeasure and Control Plans with senior leadership that meets all regulatory requirements and drives down the cost of generating each plan for clients

Production Engineer Intern – E&J Gallo Winery, Modesto, CA (6/18–12/18)

- Implemented operation of new manufacturing line with bottling team leadership and operators through continuous improvement strategies like data collection and limiting operational variability
- Facilitated communication between upper management, maintenance, and operators so that all stakeholders' needs were being communicated and met to ensure smoother production operations

Manufacturing and Warehouse Intern – PepsiCo, Fresno, CA (6/17–8/17)

- Designed and executed manufacturing loss study by designing experiment and collecting data to present and suggest solutions that limited operator error to factory and regional leadership
- Standardized procedures for startup and shutdown of the manufacturing facility for all production lines through documentation in a single binder

SKILLS

Technical: R (RStudio), (Basic) Command Line, SQL (SQLite), Python, Microsoft Office (Word, Excel, PowerPoint, Outlook), Slack, Google Workspace (Drive, Documents, Groups, Calendar)

Certifications: Officiant in the state of Oregon