Henry Strecker

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EDUCATION

Master of Environmental Science and Management, 3.92 GPA (Expected June 2025)
Specialization: Energy & Climate
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
    Employment: Teaching Assistant (9/23–12/23, 9/24–Present)
    Guest Lecture: Introduction to Data Science with Applications in Environmental Science
    Highlighted Coursework: Energy Demand Analysis, GIS, Energy Economics and Markets, Environmental
    Modeling, Carbon Accounting, Cost-Benefit Analysis, Climate Change Impacts

Bachelor of Science in Statistics and Data Science, 3.82 GPA (March 2023)
University of California, Santa Barbara (UCSB)
    Honors: College of Letters and Science Honors Program Member
    Highlighted Coursework: Data Science, Machine Learning, Probability and Statistics Theory, Regression
    Analysis, Linear Algebra, Time Series, Stochastic Processes

WORK EXPERIENCE

Data Science Manager – Solar Power Impacts on Healthcare, Master's Group Project (3/24–Present)
Collective Energy Company (Client), Ojai, CA
- Led a team of 5 members to create a digital product showcasing cost-benefit analyses for health centers nationwide that will drive decision-making around which sites are prioritized for development
- Utilized Google Cloud Platform tools to create solar production estimations for healthcare facilities
- Parsed 100+ million rows of power outage data to assess outage risk for 3,000+ US counties

Data Science Contractor – The Role of Biomass in Reaching Net Zero (1/24–7/24)
World Resources Institute (WRI) & Evolved Energy Research, Washington, DC
- Designed a reproducible data workflow to integrate, process, and compile various data sources
- Downscaled regional biomass demand projections to the county level across the entire US

Research Assistant – US Wind & Solar Siting Outcomes (8/23–12/23)
UCSB Spatial Climate Solutions Lab, Santa Barbara, CA
- Used GIS tools to incorporate a national wind turbine database, enabled more realistic simulated pseudo-absence location sampling, and evaluated geographically weighted regression models

Data Science Intern (6/21–10/22)
SiteZeus, Tampa, FL
- Contributed as one of two data scientists on the development of a new product that would predict daily restaurant demand using historical transaction data
- Analyzed the potential value of integrating new datasets totaling over 15,000 variables to existing products

DATA SCIENCE & ENERGY PROJECT EXPERIENCE

Clean Energy Interactive Maps: Developed interactive plots for the UCSB Clean Energy Transformation Lab (CETlab) website that accompany research on the future of low-carbon electricity in South Africa (1/23–3/23)
Deep Learning: Utilized Google Cloud Platform to leverage deep learning algorithms to identify ASL letters from images (11/22–12/22)
Neural Network Training: Trained a neural network in Python that predicts final scores of NBA games based on halftime statistics, and presented at the UCSB Data Science Club Annual Project Showcase (1/21–5/21)

SKILLS & STRENGTHS

Coding Skills: Python, R, SQL, GIS, Git, Google Cloud Platform, Shell Scripting, Dash Interfaces, Shinyapp
Personal Strengths: Leadership, Science Communication, Problem Solving, Collaboration, Public Speaking