Lewis White

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EDUCATION

Master of Environmental Data Science, 3.96 GPA (Expected June 2023)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
> Highlighted Coursework: Working with Environmental Datasets, Modeling Environmental Systems, Data Visualization and Communication, Machine Learning (all to be completed by June 2023)

Bachelor of Arts in Statistics and Psychology (Cum Laude), 3.71 GPA (June 2020)
Carleton College, Northfield, MN
> Highlighted Coursework: Bayesian Inference, Applied Regression Analysis, Statistical Inference, Probability, Linear Algebra, Climate Change Geology, Psychology of Prejudice, Behavioral Economics
> Leadership/Involvement: Captain of Varsity Tennis Team, Member/Choreographer of EDB Dance Company

PROJECTS

Machine Learning Master's Course Project – Whose Song is it Anyways? (2/23–3/23)
Applied various machine learning techniques (KNN, bagged decision trees, random forests) to predict whether a song was in my Spotify "Liked tracks" or another classmates, then compared the performance of each model.

Statistics Master's Course Project – Modeling Asthma Hospitalizations (10/22–12/22)
Conducted multiple linear regression to analyze the relationship between air quality and asthma related hospitalizations in California and applied a t-test to examine the effect of wildfires.

Undergraduate Senior Thesis – Using Survival Analysis to Understand Factors Affecting Drug Use (1/20–6/20)
Applied Cox proportional hazard models and Weibull accelerated failure time models to analyze how various demographic/behavioral factors affect when United States citizens will first try recreational drugs.

Consulting Course Project at Carleton College – Statistical Consultant for City of Northfield (1/18–4/18)
Provided evidence that Northfield did not need to build a new parking lot by taking an inventory of available parking spots, checking usage, and conducting a binomial analysis predicting parking availability at given times.

EXPERIENCE

Data Analyzation Specialist and Communications Manager – Master's Capstone Project (1/23–Present)
Climate Futures for Ecohydrological Modeling of Emerging Fire Regimes in Central Coast California
- Constructing climate scenarios using spatial downscaling techniques and analyzing these scenarios based on their probabilities and implications for future fire regimes.
- Creating public facing visualizations of both likely and extreme climate scenarios that allow community members and relevant stakeholders to better understand our changing ecosystem.
- Developing a Shiny app that allows users to construct climate scenarios, visualize them, and generate daily values of climate variables that can be put directly into RHESSys (an eco-hydrological model).

Research Advisor – dscout, Chicago, IL (6/20–7/22)
- Crafted survey designs, managed complex longitudinal projects, and provided problem solving support throughout the entire research process for clients at companies such as Nike, Verizon, and Microsoft.
- Designed, ran, and analyzed original research to determine how people can better support the LGBTQIA+ community. Published research in dscout's *People Nerds* blog and shared with researchers worldwide.

SKILLS, TRAININGS, & ADDITIONAL EXPERIENCE

Languages: R, Python, SPSS, familiar with SQL and BASH
Environments: RStudio, Jupyter, Microsoft Office Suite, Tableau, VS Code, GitHub, Slack, Figma, Trello
Specializations: Data Visualization, Machine Learning, Regression Analysis, Bayesian Statistics, Survey Design
Data Trainings: The Art of Data Visualization (NYU Online Course), Teach me how to Google (MEDS Workshop)
Additional Experience: Account Management Intern – BBDO Worldwide, NY (6/19–8/19); Strategy Intern – Zeus Jones, MN (6/18–8/18); Consulting Intern – Turnlane, MN (6/17–8/17); Tennis Coach (6/14–Present)