Matteo Torres

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Website | GitHub | LinkedIn

EDUCATION

Master of Environmental Data Science (Expected 6/25)
Bren School of Environmental Science & Management — University of California, Santa Barbara (UCSB)
Highlighted Coursework: Python for Environmental Data Science, Databases and Data Management, Machine Learning in Environmental Science, Data Visualization and Communication
Awards/Honors: Environmental Data Science Fellowship

Bachelor of Science in Biology | Minor in Dance (12/23)
College of Natural Sciences & Mathematics — California State University, Long Beach (CSULB)
Highlighted Coursework: Conservation Biology, Population Ecology, Biostatistics, Geographic Information Science for Natural Sciences, Undergraduate Directed Research
Awards/Honors: Gulf of Maine Research Institute Grant, NSF Primate Population Ecology Grant

PROJECTS

Assessing Range Shifts of Coastal Species for Conservation in California's Transition Zones (1/25 – Present)
Master's Capstone Project | Repository

- Mapping rocky shore species range edges along California's coastline, identifying species with range edges near Point Conception to support conservation and educational efforts
- Utilizing Bio-Oracle SSDMs to predict future species range shifts, developing a prioritization system for monitoring, informing coastal monitoring, and preserving management plans
- Compiling project deliverables into a Shiny dashboard, which will be hosted on The Nature Conservancy's Geospatial Hub for interactive access and analysis

Thomas Fire Analysis (12/24)
Master's Remote Sensing Course Project | Repository | Blog

- Analyzed AQI data (daily and 5-day averages) to assess air quality impacts from the Thomas Fire
- Used remote sensing techniques to create a false-color image of the fire scar for enhanced environmental monitoring
- Documented the analysis in a blog post, providing a step-by-step walkthrough of the process and discussing the impacts of the fire with accompanying visualizations

Additional Projects: Spotify Wrapped (Repository), Biodiversity Intactness Index (BII) Change (Repository), Identifying Impacts of Extreme Weather (Repository), Exploring Historical Redlining (Repository)

EXPERIENCE

Research Intern — CSULB Quantitative Ecology Lab, Long Beach, CA (5/23 – 12/23)
Maternal Inexperience and Social Attention in Rhesus Macaques

- Merged demographic and cognition datasets, filtering subjects by life stage (juvenile, adult, senescent)
- Developed linear mixed-effects models (LME) to analyze early-life adversity and social attention
- Created data visualizations to communicate findings

Research Intern — NOAA Fisheries, Silver Spring, MD (Remote) (6/21 – 8/21)
Connections Between Low-Level Arctic Clouds and Extreme Winter Precipitation

- Processed LiDAR datasets, extracting cloud signals at 7 km elevation
- Analyzed extreme winter precipitation events and calculated cloud signal statistics
- Created a table comparing cloud signal statistics during extreme versus normal precipitation periods

SKILLS & ADDITIONAL EXPERIENCE

Technical: R, Python, SQL, Git/GitHub
Computer: Microsoft Office Suite, Google Workspace
Other: Proposal Writing
Additional Experience: Bartender — University of California, Los Angeles Faculty Club, Los Angeles, CA (10/23 – 7/24); COPE Health Scholar — Kaiser Permanente South Bay Medical Center, Harbor City, CA (10/19 – 4/20)