Ian Morris-Sibaja

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EDUCATION

Master of Environmental Data Science, 4.00 GPA (Expected June 2025)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Highlighted Coursework: Geospatial Analysis (in R), Data Visualization and Communication (in R)
Leadership/Involvement: Assessing Range Shifts of Coastal Species to Inform Conservation in California's Biogeographic Transition Zones – Capstone Project (Expected June 2025)

Bachelor of Science in Biology (June 2022)
University of California, Los Angeles (UCLA)

Highlighted Coursework: Aquatic Geomicrobiology, Ecological Modeling, Python with Applications
Honors/Awards: Departmental Honors, Specialization in Computing

TECHNICAL SKILLS

Data Visualization, Machine Learning, Data Preparation, Statistical Analysis
Programming: R, Python, C++, SQL (SQLite), Git/GitHub, ArcGIS

EXPERIENCE

Associate Biologist – South Environmental, Pasadena, CA (10/23 – 08/24)

- **Conducted precise** vegetation data collection using submeter GPS for detailed plant community mapping, ensuring accurate compilation of 210+ observations and analysis of spatial data
- **Personally protected** 10+ endangered species through active monitoring of construction sites

Forestry Aide – California State Parks, Ventura, CA (05/23 - 09/23)

- **Designed and implemented** a reproducible workflow by cleaning and manipulating 3 years and over 1000 observations using Python in ArcGIS Fieldmaps creating surveys analyze vegetation distributions
- **Developed** a comprehensive log of 73 plant species, including location and invasive status details, to support data analysis and decision-making processes
- **Statistically estimated** an increase native groundcover by over 170% through invasive removal efforts

Restoration and Nursery Intern – National Park Service, Santa Monica Mountains, CA (06/22 - 09/22)

- **Collected** field data throughout trails in the Santa Monica Mountains to identify and monitor native and invasive species in support of restoration efforts
- **Verified** the quality and accuracy of environmental data, including invasive and native plant observations, to ensure reliable results in ecological analyses

PROJECTS

Effects of Climate Change on Flowering Phenology of Native and Invasive Californian Annual Forbs (06/22)

- **Designed and executed** a remote research project assessing the effects of climate change on the flowering phenology of native and invasive Californian annual forbs
- **Analyzed** 15,000+ flowering/climate observation by applying Python programming utilizing the GeoPandas and Pandas modules and statistical analysis

The Effects of Climate Change on the Vernal Plants Specialist Bee Population (06/22)

- **Developed** predictive Leslie matrix models in R to simulate population dynamics to analyze the effects of climate change on vernal pool specialist bee populations
- **Concluded** in a technical write up that longer and more severe droughts hinder population recovery, while pollen availability significantly impacts recovery rate