JB BAUM

Geospatial Analyst | Public Data and Environmental Research

Los Angeles, CA | jb@jbbaum.com | 917.275.6273

jbbaum.com | relational.land | linkedin.com/in/jbbaumland | github.com/jb-baum

Geospatial analyst with a background in social geography, environmental studies, and climate science. Builds tools that connect public records, satellite observations, and visual comparisons for planning and environmental analysis.

EXPERIENCE

Relational Land | Geospatial Analyst January 2026-present

- Build SB 79 / LA-MAP tools connecting transit geography, parcel information, housing-policy scenarios, and implementation records through interactive maps.
- Reconcile City Planning records and map housing-incentive filings, preserving distinctions between applications, approvals, and completed development.
- Develop 3D comparisons of modeled City and State housing capacity; map overlapping environmental, housing, and economic pressures through the Compound Vulnerability Index.
- Build Python and Flask data services and Mapbox GL JS interfaces with source validation, data diagnostics, and public methods documentation.
- Develop the CFP Anomaly Tracker to compare vegetation and climate conditions with multiyear baselines.

SELECTED RESEARCH

Relational Landscapes | UCLA Geography 2025

Analyzed historical vegetation and moisture patterns within the Palisades and Eaton fire perimeters. Built an interactive Google Earth Engine application with temporal graphs and location-specific statistics.

Native Plant Fire Traits | UCLA Ecology and Evolutionary Biology 2025

Built a research matrix of Los Angeles County native and introduced plants, documenting fire adaptations, ecological characteristics, and recovery over time.

Archival Geographies of the Haitian Revolution | UCLA History 2025-2026

Connected primary archival sources with botanical, ecological, epidemiological, and spatial evidence to examine relationships among medicine, plants, disease, people, and place.

EARLIER PROFESSIONAL EXPERIENCE

Creative Direction and Photography | Professional Practice 2010-2020

- Directed research, production design, and photography for advertising, editorial, fashion, and music projects across Los Angeles, New York, Paris, Tokyo, and Bangkok.
- Developed visual systems across print, digital, and live environments for clients including Casio, Chanel, and Universal Music Group.

EDUCATION AND LEADERSHIP

University of California, Los Angeles December 2025

BA Geography and Environmental Studies | Minor: Geospatial Information Systems and Technologies

GPA: 3.885 | President, Geography Association and Botanical Club; Guide and Advisory Board Member, UCLA Mathias Botanical Garden.

West Los Angeles College June 2023

AA Climate Change and Environmental Studies

Environmental Club President; Student Senator; Sustainability and Curriculum Committees; California Center for Climate Change Education intern; geography and biology STEM tutor.

TECHNICAL SKILLS

GIS and remote sensing: ArcGIS Pro, QGIS, PostGIS, Google Earth Engine, ENVI, satellite time-series analysis.
Development: Python, SQL, JavaScript, TypeScript, Flask, Mapbox GL JS.
Cloud and version control: Google Cloud Platform, Git/GitHub.