

IGNACIO REQUENA

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EDUCATION

Master of Environmental Science and Management, Track: Data Science, Energy & Climate, 3.95 GPA (6/24)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Honors: Bren Academic Excellence Recruitment Fellowship (\$16,000)

Highlighted Coursework: Geographic Information Systems (GIS); Advanced Environmental Data Analysis; Renewable Energy Systems; Energy Demand Analysis; Energy, Technology and the Environment.

Selected Project: Developed an interactive [ShinyApp](#) (linked) for national-scale analysis of U.S. energy use and emissions, integrating geospatial mapping and time-series visualizations.

Licenciatura in Anthropology (BSc & MSc equivalent), Track: Geospatial Archaeology, 3.83 GPA (4/19)

School of Natural Sciences & Museum – Universidad Nacional de La Plata, Argentina

SKILLS

Data Processing: Python, R, RStudio, Git/GitHub, Excel, Google Sheets, OpenRefine, Arcade.

GIS & Remote Sensing: ArcGIS Pro, ArcGIS Online, ArcPy, ArcGIS Spatial Analyst, ArcMap, Google Earth Engine, GeoPandas, Rasterio, Rioxarray, Xarray, WhiteboxTools, QGIS, SAGA, GRASS, LiDAR.

Data Automation/Integration: API requests, ArcGIS Notebook, Google Cloud Scheduler, Google Apps Scripts.

Data Visualization: Shiny, Leaflet, MapLibre, Geemap, ggplot, Voilà, Solara, Quarto, R Markdown, CSS, HTML, JavaScript, ArcGIS Experience Builder, ArcGIS Dashboards, StoryMaps, Tableau, Illustrator, Photoshop.

Certifications: GIS Programming Certificate – University of Tennessee, Knoxville

EXPERIENCE

Director of Geospatial Analytics – Collective Energy Company, Contract Remote (6/23–9/25)

- Directed geospatial and economic feasibility assessments for 16k+ community health clinics across the U.S.
- Quantified site-level, monthly energy and resilience metrics, including electricity demand & expenditure, operational revenue losses from county-derived grid reliability indices (outages), rooftop solar generation, building height, system sizing, CAPEX (pre/post incentives), bill savings, and avoided CO₂e emissions.
- Built and deployed an [ArcGIS Experience Builder](#) dashboard (linked) integrating geospatial analytics and live, web-scraped outage data to support feasibility analysis, stakeholder engagement, and project monitoring.

Co-Founder & Chief Technology Officer – Sunstone Energy Company, Startup Remote (3/23–7/25)

- Oversaw LiDAR-driven solar feasibility community-wide assessments, quantifying site-level solar potential, system cost, electricity demand & savings, and avoided CO₂e emissions, with results deployed via interactive GIS dashboards (linked) for a [remote end-of-line community](#) and an [Indigenous reservation](#) in California.
- Secured \$24,000 in competitive research grants from the California NanoSystems Institute (CNSI) and the Bren School Eco-Entrepreneurship Council to advance solar resource modeling and feasibility analysis.

Founder & Principal Investigator – Astro Consultants, Contract Remote (5/19–9/22)

- Authored 30+ CEQA-compliant cultural resource reports for infrastructure projects across Southern and Central California, managing field surveys, archival research, data management, and GIS analysis.
- Engineered a widely used geocoding and spatial proximity analysis workflow to automate historic resource screening, replacing manual radius reviews and scaling analysis across 500,000+ historic records.

ADDITIONAL SKILLS & CERTIFICATIONS

Languages: native in Spanish & English; Portuguese (professional proficiency), Italian (limited proficiency).

Policy & Communication: technical & grant writing, policy analysis, budgeting, public presentation.

Certifications: Registered Professional Archaeologist.