Sofia Ingersoll

/soF-AYA Ing-er-saul/

Sofia.Ingersoll@Outlook.com | Website | Portfolio | GitHub | LinkedIn

EDUCATION

Master of Environmental Data Science | *June 2024* | Bren School of Environmental Science & Management, UCSB
  Leadership: Class Co-Chair; Dean's Advisory Committee, Representative; BSLC, Representative

Bachelor of Science in Chemistry | *June 2023* | Earl Warren College, University of California, San Diego
  Certification: American Chemical Society (ACS) Certification

A.S. in Physics, Mathematics, Chemistry, & Natural Sciences | *June 2021* | Moorpark College, Moorpark, CA
  Leadership: Women in Engineering, Mathematics, & Science, Treasurer (2020–2021)

PROFESSIONAL EXPERIENCE

NASA DEVELOP Analytical Mechanics Associate @ Jet Propulsion Laboratory, Pasadena, CA
Project Lead & Geospatial Data Analyst for the San Bernardino Wildland Fires Project (Expected: 1/25–4/25)
- Contribute to project by analyzing ECOTRESS and EMIT satellite data to assess the efficacy of prescribed burns.
- Act as the primary point of contact, communicate findings, produce public facing documents such as, but not limited to, white paper(s), policy suggestion(s), and presentations.

The 2035 Initiative, UCSB, Santa Barbara, CA (*remote)*
Environmental Data Scientist (10/23–10/24)
- Compiled and synthesized datasets, conducted literature reviews, trouble-shot and optimized workflows, developed surveying methods, interactive maps, and other informative data visualizations. [R, Python, QGIS]
- Interpreted survey response trends to evaluate the adaptability and impact of policy suggestions. Collaborated with interdisciplinary teams to use this information to develop strategic policy suggestions and solutions which reflect the needs and desires of residents.

NCAR Climate & Global Dynamics Lab | Description | Repository
Master's Capstone Communications Manager & Lead Data Engineer (1/24–6/24)
- Leveraged high-performance computing (HPC) to create a file processing system to pull user-selected information from a database containing 10 Terabytes of data to display on a containerized web application.
- Led collaborative virtual meetings via Zoom with NCAR CGDL stakeholders from varying locations across the United States to assess the usability of my machine learning emulator throughout its development. [Python]

UCSD Dept of Atmospheric & Analytical Chemistry, San Diego, CA
Environmental Data Analyst (12/21–6/23)
- Extracted, transformed, standardized, analyzed, and loaded local meteorological and hydrological data into project's shared drive. Produced weekly reports evaluating local climate effects on the quality of air, sea water, storm water, and wastewater with respect to their potential impacts on public health. [Excel, IGOR Pro]

Keller Williams Realty, Inc. @ Big H Homes, Westlake, CA (*hybrid*)
Investment Specialist – Director of Marketing & Special Events (6/19–8/21)
- Evaluated demographic engagement with promotions, conducted cost-benefit analyses for marketing strategies, optimized resource allocation, and guided investment decisions. Managed social media platforms, created marketing, and educational materials, guaranteeing consistent branding and legal compliancy.

RELEVANT SKILLS

Technical: R (proficient), Python (proficient), SQL (confident), Git & GitHub, Microsoft Planetary Computer, ArcGIS, Version Control, Markdown, HTML, CSS, SCSS, JS, database management, data analysis, geospatial analysis, statistical analysis, machine learning, dashboard development, CEQA/NEPA, Google & Microsoft Suite, Slack