

Matthew D. Levey

Principal SeaSpatial Consulting

Experience applying programming knowledge to real-world applications and for developing novel solutions to novel problems.

Geospatial and cartographic skills and experience applied to high-impact projects world-wide.

Strong background in data acquisition, processing, analysis, and display.

PROFESSIONAL EXPERIENCE

Principal

SeaSpatial Consulting, Santa Cruz, CA 2009 - Present

Python programming; including the use of the Scipy stack (Pandas, Numpy, and Scipy) for data analysis and geoprocessing. Development of web maps using Esri, Leaflet, Mapbox, and Google Maps APIs, along with HTML, CSS, and JavaScript. Create, process, manage, and analyze spatial data sets in GIS for interpretation and display, including the production of charts and maps.

Project Manager

AOA Geophysics Inc., Moss Landing, CA 2003 - 2009

Oversee and lead staff scientists in creating, processing, managing, and analyzing marine spatial data sets in GIS for interpretation and display, including the production of charts and maps. Plan and implement seafloor mapping surveys worldwide using multibeam, sidescan sonar, and subbottom profiler systems. At sea, oversee the operation of seafloor mapping surveys to ensure data accuracy and consistency, and to facilitate communication between clients and contractors.

Research Technician

Center for Habitat Studies, Moss Landing, CA 2002 - 2003

Apply GIS applications for the interpretation of remote sensing data for the creation of habitat maps. Assist with the planning, implementation, processing, and display of seafloor mapping projects. Digital video editing and production. Deploy and troubleshoot computer systems. Maintain network connectivity and productivity.

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TECHNICAL SKILLS

Python, (including Numpy, Scipy, and Pandas), JavaScript, HTML, and CSS programming

ESRI ArcGIS certified

Full-Stack spatial data programming on Linux and Windows platforms

Multibeam and sidescan sonar data acquisition and processing

NAUI Scientific Diver

HIGHLIGHTS

Maintained and co-developed mission planning and risk-assessment tools for **Wave Glider** operations at **Liquid Robotics, Inc.**

Developed web-mapping interface for **Jupiter Research's** ham-radio Wave Glider project

Developed first of its kind subsea GIS with HTML and JavaScript based infographics for **Chevron ETC** and Gulf of Mexico Business Unit

EDUCATION

MS Marine Science

Moss Landing Marine Labs,
Moss Landing, CA

BS Biology, **BA** Political Science
San Diego State University,
San Diego, CA