



## ALEXIS HUYNH

*Project Scientist I*

Alexis is a dedicated and detail-oriented environmental professional working on freshwater and marine projects. She is particularly adept at analyzing complex data through GIS software such as ESRI's ArcGIS Suite. Alexis also performs activities such as critical areas studies, stream and nearshore surveys, and research and synthesis. She is familiar with local, state, and federal environmental policies and regulations, and she conducts regulatory research and prepares documentation to meet local (e.g., critical areas), state (e.g., State Environmental Policy Act), and federal (e.g., Endangered Species Act) regulatory requirements. Her experience includes projects based in Washington and California.

### Representative Projects

**Clinton Passenger-Only Ferry Dock Replacement Project, Port of South Whidbey, Clinton, WA.** *Project Biologist.* Alexis is performing GIS Analysis to support permitting of this passenger ferry dock replacement project on the shoreline of Whidbey Island in the community of Clinton, Island County, Washington. The new dock floats will be compatible with future passenger-only ferry service.

**State Route (SR) 520 Bridge Replacement and HOV Program—Portage Bay Bridge Phase, Washington State Department of Transportation, Seattle, WA.** *Project Biologist.* Alexis is providing GIS assistance in updating the project's permit plans during the Portage Bay Bridge phase of the SR 520 Program. Completed work includes converting preexisting CAD data to digitize relocation of marina slips for inclusion in permit plan updates.

**Lake Hills Interceptor Rehabilitation, King County Department of Natural Resources and Parks, Bellevue, WA.** *Staff Scientist.* Alexis provided GIS analysis to identify City of Bellevue right of way (ROW) within the project's work areas. She used GIS tools to create and integrate features from traffic control and engineering plans. Alexis also prepared figures to incorporate into the Project Narrative for ROW use permits.

**Cedar Terrace Pump Station Improvements, City of Bellevue Utilities, Bellevue, WA.** *Staff Scientist.* This project involves replacement of a wastewater pump station with a gravity sewer system. Confluence is part of providing environmental and permitting services by determining site conditions, permit requirements, developing timelines, and providing assistance necessary to obtain permits for construction of the project. Alexis prepared maps in ArcGIS for inclusion in Project Narrative and Wetland Stream Report.

**GIS Analysis, California Department of Transportation (Caltrans), San Luis Obispo, CA.** *Student Assistant.* Evaluated web services from state agency sites to ensure usage of accurate, credible, and updated data. Performed spatial and mapped point density for zero emission vehicle (ZEV) charging station data in California. Geocoded 600+ records of tabular data through internal custom ArcGIS processing tools to display and analyze locations of broadband-related permits.

**2022 Samish Bay Eelgrass Survey, Taylor Shellfish, Bellingham, WA.** *Staff Scientist.* Alexis assisted with a field survey to document the presence of native eelgrass beds



### EDUCATION

B.S., Environmental Management and Protection, Minor in Geographic Information Systems, California Polytechnic State University, San Luis Obispo, CA, 2021

### SPECIALTIES

- Field Surveys
- Scientific Research
- Data Collection
- GIS Analysis
- Transportation Planning
- Land Use Planning
- Watershed Analysis



on designated landowner parcels. The survey was conducted using methods recommended by the U.S. Army Corps of Engineers. Survey data were compared to the long-term data for the site compiled from the Washington Department of Natural Resources, and other site-specific surveys. Survey methods included georeferenced aerial imagery collected by unmanned aerial vehicle and transect-based ground truthing. The intent of this effort was to characterize the distribution, extent, and potential persistence of eelgrass habitat within various culture beds using different culture methods.

**Hydrology Consulting Reports, California Polytechnic State University (Cal Poly), San Luis Obispo, CA.** Collected and analyzed data on riparian conditions for watershed health implementation. Performed research and organized hydrologic data to compile information in ArcGIS. Conducted spatial analysis of raster data to effectively contribute maps to reports.

**Environmental Constraints Analysis, Cal Poly, San Luis Obispo, CA.** *GIS Coordinator.* Led the configuration of maps to best represent environmental issue areas on the project site. Used open source data to import layers into ArcGIS Pro. Plotted XY data as a point feature from Excel files to display relevant air monitoring stations.

**ArcGIS Hub Project, California Polytechnic State University (Cal Poly), San Luis Obispo, CA.** *Project Manager.* Delegated project responsibilities to team members to complete tasks in a timely manner. Designed a practical and user-friendly interface to integrate and display accessible GIS data. Prepared data in ArcGIS Online to create web maps and applications for Hub sites.

**Workforce Education Programs for Forest, Fire, and Fuels Management Research Assistant, Cal Poly NRES Department, San Luis Obispo, CA.** *Research Assistant.* Prepared protocol documents for research approval from the Cal Poly Institutional Review Board. Conducted semi-structured interviews with a diverse cadre of forestry professionals to measure workforce training priorities. Provided qualitative insight through thematic analysis to assist in building productive meeting agendas and training programs.