

JATTA E. SHEEHY, PhD

Operations Manager | Senior GIS Analyst

TSSW



(541) 263-1470

jsheehy@terrasw.com

8+ Years of GIS Experience

TerraSystems Southwest, Inc.

2014—2022

Ms. Sheehy manages a variety of GIS and environmental research projects nationally and internationally on topics including conservation, land management and forest classification, as well as land easement conversion, on-call mapping and data improvement. She designs and implements company-wide workflow procedures and advanced imagery, raster and vector based analyses and trains company personnel on these methods. She generates and delivers project reports, presentations and creates visually appealing end products for customers.

⇒ *Program for Economic Enhancement through Water and Environmental Sustainability in Baja California Sur*

- Project management, coordination and implementation of research activities and field work, compilation of project reports and presentations.
- Remote Sensing Analyses, utilizing both commercial satellite imagery and UAV technology for e.g. creation of a digital elevation model (DEM), vegetation cover, flow analysis and erosion risk model.
- Soil Analysis focusing on soil Organic Carbon, Organic Matter, Total Nitrogen and other soil quality indicators. Activities include study design, soil sampling activities, statistical analysis, and presentation of results.

⇒ *Arizona Department of Health Services*

- Project management and coordination of on-call mapping activities, data maintenance and organization of all associated datasets, procedure development.
- Creation, quality assurance, employment and updates of custom scripted tools to geolocate addresses and produce requested cartographic deliverables for daily AZDHS applications.
- Created workflow procedures, researched and quality-assured hundreds of thousands of address records for monthly reporting requirements.

⇒ *Arizona State Land Department Rights-of-Way Conversion*

- Project coordination, procedure development, complex legal document interpretation and digitizing of thousands of ROWs utilizing custom python scripts and advanced editing tools.
- Extensive QA / QC of technician/analyst production of thousands of ROWs and the compilation of deliverables for the client.
- Creation of a story map of the project to highlight the results and lessons learned.

EDUCATION

University of Helsinki, Finland:
2016, PhD, Agroecology
2009, MS, Environmental Biology
2009, BS, Environmental Biology

AFFILIATIONS

Arizona Geographic Information Council (AGIC):
Voting Member in Natural Resources Working Group

SKILLSET

- 8+ Years ESRI ArcGIS Pro / AGOL / Apps Experience
- 10+ Years Scientific Research & Publishing
- Geodatabase Design and Management
- Remote Sensing Analysis
- Advanced Spatial Analysis
- Modeling
- Data Creation/Conversion
- Python Scripting
- 3D Analysis, Animation
- Cartography
- Training/Workshops/Outreach
- Statistical Analysis
- Grant/Proposal Writing
- Google Earth