Skyler Elmstrom

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Formal Education:

- Graduate Certificate in Data Science; Western Washington University. (In progress, 2021)
  - Highlights: Experimental Design, Multivariate, Time Series, Geostatistics, Machine Learning
- Environmental Science, B.S., GIS minor (Fall 2020); Western Washington University.
  - Highlights: Ecology, GIS, Statistics, Biology, Chemistry.
- GIS Certificate (Fall 2020); Western Washington University.
  - Highlights: ArcGIS, QGIS, Geometric Networks, Linear Referencing, SQL, Automation using Python, Advanced Analyses, Remote Sensing
- Basic Geographic Intelligence Specialist (BGIS) Course; USMC, Fort Belvoir, VA; National Geospatial-Intelligence Agency, Springfield, VA. 2011.
  - Highlights: Geodetic survey, Geospatial Analysis, ArcGIS Enterprise, database management, Remote Sensing

Experience:

Research Assistant II; Institute of Environmental Toxicology & Chemistry, Western Washington University. Bellingham, WA. July 2020 - Present.

- Assisted with the development of Bayesian Network Relative Risk Models (BN-RRM)
- Provided GIS and statistical support for San Francisco Bay area research projects such as data management, analysis, and product production.

Drafter/GIS Technician II; Whatcom County Assessor's Office. Bellingham, WA. July 2019 - Feb. 2020.

- Responsible for maintenance, upkeep, audit and review of the Whatcom County Assessor's Office property data, GIS database, and county tax maps including processing deeds and property segregations as well as the associated GIS work
- Manipulated GIS property data within versioned enterprise geodatabase environment using ESRI local government information model (LGIM) Parcel Fabrics
- Responded to customer requests as well as inquiries pertaining to relevant mapping questions and property laws; did appropriate research of Auditor's recorded documents as needed
- Used property boundary legal descriptions for locating property in GIS and on printed maps
- Wrote SQL queries, created scripted data cleaning tools, and automated GIS and mapping processes using Python.
- Assisted the GIS Specialist II with the development of GIS workflows and solutions during a critical transition to a modern GIS platform from physical maps. I created and promoted suggestions for improvements or new capabilities based on my own expertise in coordination with GIS IT and Assessor's Office staff.
- My official job description can be found here: DRAFTER GIS TECHNICIAN II - Laserfiche WebLink

GIS Consultant; Joule Group, LLC. Bellingham, WA. November 2017 - May 2018.

- Produced geospatial products tailored to remote project locations

- Evaluated costs, feasibility of sUAS Structure-from-Motion products for project infrastructure
- Interpreted engineering plans, cross-checked calculations, and exported AutoCAD ready GIS data. Generated GIS files from notes, discussions, spreadsheets, and project plans. Compiled and managed project GIS database.

Student Professional; Oregon Department of Fish and Wildlife, Shellfish and Estuarine Assessment of Coastal Oregon Team. Newport, Oregon. June - August 2016.
- Evaluated sUAS platforms and sensors and their utilization in estuarine environments.
- Responsible for UAV imagery processing and analysis.
- Assisted with ecological surveys, experiment design and setup, data collection and data entry. Collaborated with and supported public engagement events to promote estuary knowledge and awareness.

GIS Specialist, Team Leader, Report Co-author; Mukilteo Salmon and Wildlife Monitoring Project, Edmonds Community College, Anthropology Department. Lynnwood, Washington. Winter 2015 - 2018.
- Led volunteer teams to collect data from streams in Mukilteo, WA
- Produced geospatial analyses with collected data for use in reports
- Updated and maintained project GIS database and tabular data. Responsible for project data stewardship and data quality assurance.
- Co-authored technical reports for 2016 through 2018 salmon monitoring seasons. Presented survey findings at the 2016 Northwest Anthropological Conference.

Sergeant (E-5), GEOINT Analyst, Geodetic Surveyor; United States Marine Corps, 1st Intelligence Battalion. Camp Pendleton, California. September 2010 - December 2014.
- Created tailored Geospatial Intelligence (GEOINT) products in support of defense operations
- Survey Team Leader and stand-in for Survey Chief and Survey Officer-In-Charge in 2014
- Assisted with planning, budgeting, and executing high-precision aeronautical landing site surveys in partnership with the National Geospatial-Intelligence Agency (NGA)
- Wrote and executed training curriculum for incoming team members
- Co-authored guidance to the Marine Corps on conducting aeronautical surveys in accordance with NGA Terminal Aeronautical GNSS Geodetic Survey standards

Awards and Recognitions:
Oregon Department of Fish and Wildlife Team Symbiosis Award (2016)
Oregon Sea Grant Science Communication Award (2016)
Oregon Sea Grant Summer Scholar (2016)
Whatcom Community College Dean's List Scholar (2016)
Presidential Volunteer Service Medal - Silver (2016)
Navy Achievement Medal (2014)
Navy Achievement Medal (2013)
Certificate of Commendation (2013)
Good Conduct Medal (2013)
Certificate of Commendation (2013)