

Kristi Silk – Geospatial Analyst – Licker Geospatial Consulting Co.



Education

B.Sc. (Hons) Earth and Environmental Sciences, minor Biology, University of British Columbia, Kelowna, BC, 2015

Advanced Diploma Geographic Information Systems GIS, British Columbia Institute of Technology, Burnaby, BC, 2018

Employment History

LICKER GEOSPATIAL CONSULTING CO. Vancouver, BC – GIS Analyst (Sept. 2018 to Present)

UNIVERSITY OF BRITISH COLUMBIA – DEPARTMENT OF GEOGRAPHY (THROUGH BCIT) Vancouver, BC – Practicum Student (Jan. 2018 to May 2018)

SURE SHOT ENVIRONMENTAL Penhold, AB – Utility Consultant (Jan. 2016 to July 2017)

Expertise

- ArcGIS
- ArcGIS Server
- ArcGIS Enterprise
- Portal for ArcGIS
- QGIS
- JavaScript, HTML, CSS
- Python
- Research
- Database Management
- Project Coordination
- Workflow Management
- Client Care

Biography

Kristi Silk earned an Advanced Diploma in GIS from BCIT and an Honours Bachelor of Science in Earth and Environmental Sciences and Biology from UBC Okanagan. Her experience is highly varied, in subject matters such as development planning, urban analysis and social equity, energy and emissions inventories, climatology, and earth and natural systems in a diverse array of places and contexts. Kristi excels at providing consulting services with a client-centric focus and integrates well into multi-disciplinary teams.

Kristi's problem-solving skills are evident in her ability to work independently on complex issues and to deliver traceable analysis at all stages of a project. When faced with a geospatial question, problem, or challenge, she delights in developing the best solution given constraints of time, budget and scope. Her technicality and finesse for geospatial analysis together with her enthusiasm and drive culminate in a strong desire to provide outstanding services for LGeo's clients.

Select Project Experience

Spatial Location/Network Optimization

- School District 68 – Support for Long-Range Facilities Plan - projecting student growth and school catchment optimization – Lead Geospatial Analyst, Project Manager
- School District 71 – Student and Enrolment Forecasting and Optimization – projecting student growth and school catchment optimization – Lead Geospatial Analyst, Project Manager
- Tow Truck Routing Optimization Under Constraints – IAA – Lead GIS and Project Manager
- City of Victoria – Retail Assessment – Geospatial Analyst
- City of Vancouver – Retail Assessment for Rupert-Renfrew – Geospatial Analyst
- City of Vancouver – Places for People – Geospatial Analyst, analysis of access, use and functionality of public spaces in Downtown Vancouver
- GTA industrial lands assessment for logistics facility
- Eastside Culture Crawl – Artist displacement study – Geospatial Analyst (CIP Award of Merit Winners, 2021)
- Comox Valley Child Care Action Plan – C+S Planning – Geospatial Analyst
- Laneway Activation Prioritization – DV BIA – tool for laneway prioritization – Lead Geospatial Analyst
- Ruper-Renfrew Parks Access Analysis – City of Vancouver - Lead Geospatial Analyst, Project Manager

Urban and Land Use Planning

- Sea-to-Sky Population Projections – VCH – Project Manager, Land Use Modeler
- Metro Vancouver Equity Baseline – Keltie Craig Consulting – Geospatial Analyst
- Vancouver Plan GIS Support – City of Vancouver – Lead Geospatial Analyst
- TransLink GIS Support – TransLink – Lead Geospatial Analyst



Licker
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- City-Wide Indicators – City of Vancouver – Geospatial Analyst, urban metrics and walkability index for City of Vancouver including access to amenities, schools, childcare etc. utilizing Python for quick metrics summaries at varying geographic scales
- Residential Infill Capacity – District of Central Saanich – Geospatial Analyst, spatial analysis of residential infill potential given current land use and zoning, and future scenarios
- Residential Infill Capacity – City of Pitt Meadows – Geospatial Analyst
- Residential and Commercial/Industrial Infill Capacity – City of Langley – Geospatial Analyst
- Community Asset Mapping – Dialog Design, City of Vancouver – Geospatial Analyst
- Langford Parks Plan - C+S Planning Group, City of Langford – Geospatial Analyst
- City of Victoria – Facilities Master Plan – Geospatial Analyst
- Official Community Plan – Modus, City of Langley – Geospatial Analyst
- Official Community Plan – Dialog Design, City of Courtenay – Geospatial Analyst
- Official Community Plan – Modus, Town of Sidney – Lead Geospatial Analyst
- Official Community Plan – Dialog Design, District of Sooke – Lead Geospatial Analyst
- Official Community Plan – Lanarc Consultants, City of Nanaimo – Lead Geospatial Analyst
- Official Community Plan – Ahne Studio, Town of Ladysmith – Lead Geospatial Analyst
- Regional Growth Strategy Framework – Modus, Sunshine Coast Regional District – Lead Geospatial Analyst

Community Energy and Emissions Planning

- Metro Vancouver Carbon Neutral Strategy – Metro Vancouver Regional District - Geospatial Analyst, Project Coordinator
- Community Climate Action Plan - City of Kamloops – Geospatial Analyst, Land Use Modeler
- CEEP – Integral, Township of Langley – Geospatial Analyst, Land Use Modeler, Emissions Modelling and Mapping
- CEEP - City of Richmond – Geospatial Analyst
- Community Climate Action Strategy – City of Surrey – Geospatial Analyst
- CEAP - City of Vancouver – Land Use Lead and Modeler
- Grid Capacity Study – City of Vancouver – Land Use Lead and Modeler

Agriculture and Food Security

- Urban Food Strategies (Yellowknife) – Geospatial Analyst, capacity for sustainable urban agriculture potential in the City of Yellowknife

Engineering and Architecture

- Krech Ojard & Associates – imagery and data management

3D Modelling and LiDAR

- Spatial modelling – Nova Pacific Environmental – Geospatial Analyst, 3D model of a salmon spawning channel
- 3D buildings and building footprints from LiDAR – City of Vancouver – Geospatial Analyst, programmatically defining building footprints and building 3D buildings with realistic roof shapes

Cartography

- Krech Ojard & Associates – large format stakeholder wall map for rail project
- Culture Crawl – Crawl-It-All 2018 and 2019

Web Applications

- E-Flora and E-Fauna Interactive Web Maps - Biodiversity of BC, UBC – data acquisition and manipulation, quality assurance, data management, functionality enrichment
- Krech Ojard & Associates – GIS Application Developer, developed custom widgets with ESRI Web App Builder and ArcGIS API for JavaScript to facilitate streamlined data collection in the field, plus customized attachment access and automated report generation for Collector and Survey123.

Research and Innovation

- Housing Choice Study – Metro Vancouver Regional District – Lead Analyst
- Development permits in the City of Victoria to assess urban change
- Potential for residential infill in the City of Victoria
- Automation - attribution of parcels with BC Assessment Building Information Report
- Automation - constrained spatial regrouping/redistricting (ongoing)