

Jamie Blackley – Geospatial Analyst & Remote Sensing Specialist - Licker Geospatial Consulting Co.



Education

B.A. Geography, University of British Columbia, Canada, 2017

M.Sc. GIS and Remote Sensing, University of Edinburgh, United Kingdom, 2019

Employment History

LICKER GEOSPATIAL CONSULTING LTD.
Vancouver, BC – Geospatial Analyst & Remote Sensing Specialist (Dec 2019 to Present)

FARRPOINT LTD.
Edinburgh, UK – Junior GIS Analyst (Sep – Nov 2019)

NATIONWIDE BUILDING SOCIETY
UK – Art Consultant (2018 – 2019)

POLAR ECOLOGY LAB
Vancouver, BC & Ellesmere Isl., NU – Undergraduate Student Researcher (2016 – 2017)

Expertise

- *ESRI ArcGIS Desktop/Pro*
- *ESRI ArcGIS Online*
- *QGIS, R Shiny*
- *R, Python, SQL+, JavaScript*
- *Adobe Photoshop, Illustrator*
- *Remote sensing in ESRI, ERDAS Imagine, ENVI, Trimble eCognition, and Google Earth Engine*
- *Research design*
- *Cartographic and creative design*
- *Database management*

Biography

Jamie Blackley has six years of applied experience in geospatial and remote sensing analysis for monitoring and evaluating the state of the environment in urban planning, health research, and impact assessment applications. Jamie is a graduate of the GIS and Remote Sensing MSc from the University of Edinburgh with academic and professional experience geospatial analysis, data management, and data visualization. Jamie is experienced in desktop-based analysis and in-situ field work. He conducted research in the Canadian High Arctic to monitor the long-term effects of climate change on the Arctic tundra and has also lead research in remote sensing applications for ocean plastic monitoring and forest canopy extent analysis. Professionally, Jamie leads Licker Geospatial's green infrastructure team that develop analytical solutions and nuance to projects relating to the intersection between the environment and urban planning. Projects include integrating regional carbon sequestration capacities in energy and emissions forecasting for the City of Abbotsford and Metro Vancouver. He has also developed analysis relating to urban forest targets and as they relate to building and population forecasts for the City of Vancouver. Jamie has also lead projects using geospatial and statistical approaches to measure community vulnerability to climate change as defined by multiple, overlapping determinants of vulnerability.

Jamie is skilled in python, R, and other programming languages, with proven experience in scripting for the management and manipulation of large datasets, conducting spatial analyses on a range of data types, and developing and hosting web maps for client use. Jamie is keen for open-source approaches to GIS and remote sensing and is also well experienced using proprietary environments for such applications. Coupled with his technical background, Jamie is also experienced in art and design, and has experience working with clients to produce tailored, high-quality pieces to be used in branding and presentation.

In his spare time, Jamie paints and etches, hikes and trains his boisterous dog. Jamie has deep-rooted interest in the natural world and is focused on how we collectively interact and integrate ourselves with the biological community. Jamie hopes to use this holistic perspective to advocate for sustainable practices and policies using GIS and remote sensing.



Licker
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Select Project Experience

Statistical

- Official Community Plan – Lanarc Consultants, City of Nanaimo – Geospatial Analyst, forest
- Community Vulnerability to Climate Change – Vancouver Coastal Health & Fraser Health Authorities – Statistician, conducted principal component analysis in R, cartographic design, and knowledge translation through story map.
- Metro Vancouver Equity Baseline – Keltie Craig Consulting – multiple principal component analysis in R to map overlapping equity concerns in the Metro Vancouver region.

Remote Sensing

- Metro Vancouver Regional District – Nature and Ecosystems modeller, future carbon sequestration modelling for Metro Vancouver's Carbon Neutral 2050 plan utilising Landsat satellite image analysis and statistical methodology canopy extent analysis from Landsat satellite utilising Google Earth Engine and greenspace extent analysis from Sentinel-2 satellite imagery
- Water Street Consulting – Remote sensing analyst, temporal analysis of lidar datasets to detect and measure landslide movements
- City of Abbotsford – Regional carbon sequestration modelling
- City of Vancouver – Municipal canopy modelling and forecast density impact integration
- Metro Vancouver – 3D building model generation from lidar and orthoimagery to support urban form interpretation and derived analyses

Urban and Land Use Planning

- Official Community Plan – Lanarc Consultants, City of Nanaimo – Geospatial Analyst, development probability and capacity modelling under various land use scenario futures
- City of Nanaimo – Building and population forecast development, mapping, and engagement.
- Facilities Master Plan – City of Victoria – Geospatial Analyst
- Residential Land Inventory & Capacity Assessment – City of Victoria – Geospatial Analyst
- Official Community Plan – Modus, City of Sidney – Geospatial Analyst

- Land Use Strategy – Modus, Cowichan Valley Regional District – Geospatial Analyst, support modelling to project capacity under new land use designations
- Logistics Analysis – GWL Realty Advisors Inc. – Lead Geospatial Analyst
- Permitting – Dialogue, Bridal Falls Gondola Working Group – Lead Geospatial Analyst, visualisation of modelled infrastructure and parks mapping
- Cranbrook Industrial Lands Value Added Assessment – Wave Point Consulting Ltd., City of Cranbrook – Geospatial Analyst

Cartography and Design

- Official Community Plan – Modus & Cowichan Valley Regional District – Cartographer, developed public-facing, online maps for workshops and land use designation discussions
- Surrey Greenhouse Gas Modelling – City of Surrey – Artist, public engagement slide deck and logo designs
- Metro Vancouver Carbon Neutral Strategy – Metro Vancouver Regional District – Artist, public engagement workshop slide deck design and automation
- Community Vulnerability to Climate Change – Vancouver Coastal Health & Fraser Health Authorities – Artist, public engagement media designs: poster maps, automated community flysheets, story map
- East Side Cultural Precinct – East Side Culture Crawl – Geospatial Analyst, asset mapping and cartography for public engagement
- East Side Beer Crawl – East Side Culture Crawl – Geospatial Analyst, route mapping and cartography for public engagement

Academic overview

- MSc. Dissertation – University of Edinburgh – Lead Researcher, object-based image analysis of UAV image analysis accuracy assessment in identifying marine plastic debris
- MSc. Field work – University of Edinburgh – Researcher, accuracy assessment of multi-platform (DGPS, UAV, Satellite) image analysis for tree canopy extent analysis
- BA Hons. – University of British Columbia – Lead Researcher, collected in-situ data (seeds and DGPS measurements) and conducted greenhouse-based research on High Arctic graminoids seeds and analysed results in R