

Raphael Roy-Jauvin

Victoria BC (Willing to relocate) | 250-857-8771 | rroyjauvin@gmail.com | Portfolio: raphroyjauvin.ca

PROFESSIONAL SUMMARY

Former First Responder turned GIS professional with experience in map production, spatial analysis, infrastructure planning, and ecological mapping across multiple sectors. Proficient in ArcGIS Pro for producing high-quality thematic maps and deliverables. Currently completing BCIT's Advanced GIS Diploma and passionate about applying my geospatial skills to sustainable transportation and urban planning projects.

TECHNICAL AND PROFESSIONAL SKILLS

- **Languages:** Fluently bilingual (English, French) with C1-level proficiency in German.
- **ArcGIS Pro:** Geoprocessing, digitizing and editing, Model Builder automation, georeferencing, SQL queries, attribute calculations in Python, GPS data integration and geodatabase organization.
- **Spatial Analysis:** Network Analysis, Ecological landscape mapping, suitability modeling, and raster analysis.
- **Cartography:** Adobe Illustrator for thematic mapping and consultation-ready map products.
- **ArcGIS Online:** Sharing and publishing data through AGOL and creating StoryMaps.
- **FME Form:** Spatial data integration, model-based processing, CAD-GIS conversions.
- **Programming:** Python for GIS programming, HTML/CSS/JavaScript for web development. Java & C++ basics.
- **Leadership:** Trained, mentored, and oversaw staff in high-pressure roles as Paramedic and Dispatch Supervisor.

SELECTED PROJECTS

raphroyjauvin.ca/#projects

Greater Vancouver Emergency Response Times: Network Analysis

Dec 2025

- A network-based evaluation of ambulance response times and population exposure relative to provincial emergency response benchmarks. By combining a GIS network analysis with my emergency services domain knowledge, I modeled EMS coverage across Metro Vancouver, quantifying how many residents fall within (and beyond) critical response time thresholds. Full technical study available via portfolio link.

Victoria Light Rail Transit Feasibility Analysis

Dec 2025

- Conducted a weighted overlay raster analysis in ArcGIS Pro to identify optimal transit corridors, integrating multiple criteria and resulting in two proposed route scenarios, presented in a publication-ready map.

LA River Park Site Suitability Analysis | Multi-criteria site selection in ArcGIS Pro

Sep 2025

Personal Portfolio Web Page | Designed and built with HTML, CSS, JavaScript

Nov 2025

WORK EXPERIENCE

BC Emergency Health Services | Victoria, BC

Sep 2017 – Present

Roles: Dispatch Supervisor (2024–Present) | Paramedic and Dispatcher (2017–2024)

- Led a 12-person emergency medical dispatch team, coordinating complex multi-agency responses.
- Deployed resources across multiple geographic zones using mapping-enabled dispatch software, clinical experience, and real-time situational analysis for optimal response coverage.
- Managed medical emergencies as a paramedic and provided assessment, treatment, and transport.

Telecommunications GIS Planner | MRK Media AG | Munich, Germany

Sep 2016 – Sep 2017

- Implemented fiber optic infrastructure plans across Germany using GIS-based planning tools.
- Designed and maintained maps, symbology, and technical documentation for engineering teams and planning approvals, ensuring project feasibility and clarity to all stakeholders.

Landscape Classification GIS Technician | Yukon Government | Whitehorse, YT Jun 2012 – Jun 2013

- Developed project geodatabases and created thematic ecological maps using ArcGIS, applying principles of symbology, color theory, and layout standards.
- Performed spatial analysis of geospatial and ecological data using tools such as Hawth's Tools to generate classification layers and site-ranking outputs that supported ecological land use planning decisions.
- Coordinated ecological fieldwork, collecting spatial and environmental data, and maintaining this data in ArcGIS.

Remote Sensing GIS Assistant | University of British Columbia | Vancouver, BC Sep 2008 - May 2012

- Co-authored a peer-reviewed study on climate-induced tree species range shifts and designed its habitat extent maps. Contributed to graduate remote sensing research using ArcGIS and ENVI tools.
- Performed georeferencing utilizing ENVI; processed raster and vector datasets, ensuring data integrity.

EDUCATION

British Columbia Institute of Technology | Advanced Diploma in GIS | Online Expected Graduation Sep 2027

Relevant Courses: GIS Programming, CAD for GIS, GIS Databases, Remote Sensing, Spatial Analysis

University of British Columbia | BSc Natural Resource Conservation | Vancouver Sep 2008 - May 2012

Dean's Honor Roll

Relevant Courses: Basic and Advanced GIS, Remote Sensing, Cartography, Object-Oriented Programming

ADDITIONAL ACHIEVEMENTS

FME Form Basic & FME Integrate Spatial Data Course | Safe Software | Online Dec 2025

C1 German Language Certification | Goethe Institute | Montreal, QC Sep 2025

Primary Care Paramedic Program & License | Justice Institute of BC | Victoria, BC Dec 2015 - Aug 2016

Yukon Commissioner's Award for Bravery | Whitehorse, YT Jan 2013

Recognized for providing critical aid during a remote helicopter incident while significantly injured.