

# Raphael Roy-Jauvin

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

## PROFESSIONAL SUMMARY

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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

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- **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

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[raphroyjauvin.ca/#projects](http://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

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### 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

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**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

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**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.