

## AUDREY GRAHAM, M.Sc., P.Geo.

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*I have recently established an independent consultancy and am looking to form a small group of clients with which I can work flexibly and collaboratively. I am available for large or small field mapping or drilling jobs, creation and editing of marketing materials, technical reports, permitting and tenure maintenance, project management, and targeting studies. I am also an Associate Geologist with Moose Mountain Technical Services, where I aim to serve as a liaison between exploration and development teams.*

## EDUCATION

### **M.Sc., Earth Science, University of Victoria, BC**

**January 2018**

- Thesis: *Geometry, Kinematics, and Quaternary activity of the brittle Leech River fault zone, southern Vancouver Island, BC, Canada.* LiDAR-based surficial geology mapping and terrain analysis, field mapping, electrical resistivity and GPR were used to constrain the geometry and evolution of a complex strike-slip fault zone. (Drs. Kristin Morell, Lucinda Leonard & Victor Levson, P.Geo.)
- Publication: *Holocene Surface Rupture History of an Active Forearc Fault Redefines Seismic Hazard in Southwestern British Columbia, Canada.* Participated in paleoseismic trenching study that identified sedimentary evidence for surface-rupturing post-glacial slip on a crustal fault.
- Included coursework in Neotectonic Methods and participation in Tectonics research group.
- Poster presentation at AGU Fall Meeting, 2016.
- Oral presentation at CGU & CSAFM Joint Annual Scientific Meeting, 2017.

### **B.Sc. Honours, Geoscience, University of Victoria, BC**

**April 2013**

- Thesis: *Inference of shear-wave velocity structure for seismic hazard assessment.* Passive-source seismic data collected by microtremor arrays were used in probabilistic (Bayesian) inversion to assess seismic hazard for a site in Lynn Valley, North Vancouver. (Drs. Jan Dettmer & Stan Dosso)
- Coursework included Sedimentary Geology, Quaternary Geology, Geomorphology, Hydrogeology, Hydrology, GIS, Remote Sensing, Applied Geophysics. Graduated with distinction.

## WORK EXPERIENCE

### **Consulting Exploration Geologist**

**October 2022 – Present**

- Geological and management services for mineral exploration, including drill project management from inception to reporting, geologic mapping & prospecting, core logging & interpretation, 3D models & targeting studies, and preparation of maps, graphics, & other marketing materials.

### **Associate Geologist, Moose Mountain Technical Services Ltd.**

**October 2022 – Present**

- Geological and management services for mineral exploration, including work on advanced technical projects which require resource estimation and engineering components.

*Engineer District Property (Engineer Gold Mines Ltd.), Atlin region, northwest BC (Dec 2022 - present)*

- Data compilation and targeting study on district-scale property near Atlin, BC.

*Canyon Creek Property (Candente Copper Corp.), Cassiar district, northwest BC (Oct 2022)*

- Planned & executed short field program on porphyry Cu-Mo exploration target.
- Produced property geology map from historic and current data; wrote Assessment Report.

### Senior Geologist, Tripoint Geological Services Ltd.

September 2019 – October 2022

**Diverse role including personnel management, client relations, permitting, geological modeling, producing marketing material and technical reports, and project management.**

*East Niv Project (NorthWest Copper Corp.), Omineca district, north-central BC (July-Aug 2022)*

- Cross-shift to project manager on helicopter-supported exploration program on porphyry Cu-Au prospect. Program included two diamond drills, an IP crew, and multiple field crews.

*Bear Lake Properties (Electrum Resources Corp.), Omineca district, north-central BC (Aug 2022)*

- Short field program prospecting and evaluating targets with field assistant.

*Hushamu Project (Northisle Copper & Gold Ltd.), Port Hardy, Vancouver Island, BC (March 2022)*

- Logged core and provided geologic insight on porphyry Cu-Au deposit.

*Golddigger Project (Goliath Resources Ltd.), Stewart mining district, northwest BC (July-Aug 2021)*

- Project geologist on helicopter-supported diamond drill program on Surebet orogenic gold.

*Snip Project (Skeena Resources Ltd.), Liard mining district, northwest BC (Nov-Dec 2020)*

- Lead geologist on helicopter-supported diamond drill program on past-producing deposit.

*Silver Hope (Finlay Minerals Ltd.), Omineca mining district, central BC (Oct 2020, June-Nov 2021, Sept 2022)*

- Lead geologist and project manager for field and drilling programs. Authored assessment reports.

*Deer Lake – Friendly Lake (Electrum Resource Corporation), Nicola arc (July 2020)*

- Exploration geologist mapping and prospecting porphyry and magnetite-gold skarn prospects

*Sofia Project (Colorado Resources Ltd.), Toodoggone Mining District, north-central BC (Dec 2019)*

- Participated in desktop targeting study and authored assessment report.

*Castle Project (Colorado Resources Ltd.), Red Chris mining district, northwest BC (Sept 2019)*

- Logged core on 1500 m diamond drill program. Co-authored assessment report.

### Project Geologist, Serengeti Resources Inc.

May 2019 – September 2020

*Kwanika Project, Quesnel Trough, north-central BC (Aug-Sept 2020)*

- Planned drillholes, managed budget, hiring, logistics, and reclamation for diamond drilling.

*Top Cat Project, north-central BC (March-April 2020)*

- Produced 3D geological and mineralization model. Used DEM to produce surficial geology map.

*Atty Project, Omineca District, north-central BC (Aug-Sept 2019)*

- Managed a helicopter-supported diamond drill program. Authored assessment report.

*East Niv & Arjay Projects, north-central BC (July 2019)*

- Participated in geological grid mapping programs based out of helicopter-supported camps.

### Project Geologist, Kwanika Copper Corporation

June – December 2018

*Kwanika Project Pre-feasibility study, Quesnel Trough, north-central BC*

- Managed a team of geologists, exploration assistants, and camp personnel; coordinated with contractors to ensure safe and timely completion of a 7000 m technical drill program. Led core logging program of Cu-Au porphyry intrusive suite with hypogene, supergene, and transitional mineralization. Mentored geologists logging core and ensured consistency of logs.
- Project included: in-depth geotechnical of oriented core; hydrogeological testing including installation of monitoring wells, vibrating wire piezometers, and packer tests; water sampling; standard penetration tests (SPTs); geomechanical, geochemical (ARD), and metallurgical samples.
- Coordinated with engineering consultants to provide information for resource modelling, open pit & underground engineering, geotechnical engineering & mine design, metallurgy, process design and infrastructure, hydrogeology & surface hydrology, waste and water management.
- Authored internal review of engineering report on surficial materials for TSF locations and borrow resources: researched and compiled open-source data, produced stratigraphic sections from drill core overburden and excavations, LiDAR-based surficial geology map, and suggestions for study.

## Academic Positions, University of Victoria, BC

September 2015 – May 2018

*Structural Geology Instructor, School of Earth & Ocean Sciences Spring 2018*

- Prepared and delivered lectures, assignments, and exams to undergraduate students.

*Teacher's Assistant (TA), School of Earth & Ocean Sciences and Geography Department*

- Taught lab sections and assisted professors during field trips in the following courses: Advanced Field Geology (EOS 400, 2x), Field Geology (EOS 300), Quaternary Geology (EOS 450, 2x), Hydrology (GEOG 370), Process Geomorphology (GEOG 376), Structural Geology (EOS 210).

*Research Assistant (RA), School of Earth & Ocean Sciences and Geography Department*

- Compiled GIS database of available LiDAR data and potentially active crustal faults in BC, to be used as a tool to identify areas of interest for paleoseismic studies.

*Tutor, Centre for Accessible Learning (CAL)*

- Tutored students in environmental studies, geomorphology, hydrology, GIS & remote sensing, geophysics, and cartography.

## Exploration Geologist, AuRico Gold Ltd. / AuRico Metals Inc

2014 – 2015

*Kemess East Cu-Au-Ag-Mo porphyry deposit, north-central BC June – October 2014; June – August 2015*

- Logged core and collected detailed strength and structural measurements from oriented core.

*MacLellan Mine and Gordon Mine deposits, Lynn Lake, Manitoba February – May 2015*

- Logged core in greenstone belt gold deposit. Down-hole and collar surveys.

## Exploration Geologist, Archer, Cathro & Associates(1981) Limited

2011 – 2013

*Silver Range Resources Ltd.'s Ag-Pb-Zn-Cu Keg prospect in South-central YT June – November 2013*

- Produced geological and geomorphology surface maps for several mineralized zones. Managed a 3 – 6-person helicopter-supported camp. Compiled results and authored assessment reports.

*Atac Resources Ltd.'s Rackla Gold Property, Nadaleen Trend, Central YT March – August 2011, 2012*

- Logged core and collected geotechnical data. Soil sampling, mapping, and sampling of trenches.

## SKILLS & CERTIFICATIONS

- Professional Geoscientist & Registered Sole Proprietor (EGBC) •
- Occupational First Aid (OFA) Level 3 • BC Mine Supervisor Certification •
- ArcGIS • QGIS • LiDAR analysis • Leapfrog Geo •
- Geosoft Target • Adobe Illustrator • Geophysical Interpretation • Advanced Spanish •
- Entrepreneurship • Project Management • Research •
- Communication • Leadership • Teamwork •

## REFERENCES

*Dr. Kristin Morell, M.Sc. supervisor, UVic.....[kmorell@ucsb.edu](mailto:kmorell@ucsb.edu), 805-893-4731*

*David Moore, P.Geo., former CEO, Serengeti Resources.....[dmoore@northwestcopper.com](mailto:dmoore@northwestcopper.com), 778-987-6710*

*Wade Barnes, P.Geo, former President, Tripoint Geological.....[wbarnes@finlayminerals.com](mailto:wbarnes@finlayminerals.com), 604-323-4927*

***Please feel free to reach out if you think I may be able to support your exploration in any capacity, or just for a friendly conversation!***