

Haojun Luan

Pursing P.Geo designation | Potential GIT | Passionate worker

Vancouver, BC

haojunluan@gmail.com (778)-859-9323

Skills

Professional Skills:

- ❖ Petrological analysis - Determine rock/mineral type through physical and chemical method, do basic component analysis for Igneous & Sedimentary & Metamorphic Rock.
- ❖ Field Work & Geological mapping - Ability to work in remote field location and making current regional geological map and field notebook record. Also, can do mapping through GIS data sets.
- ❖ Mineral Deposits: Learning several different types of mineral deposits worldwide, have a framework for their Source-Trans-Trap process and trying to assess mineral potential as economic geologists.
- ❖ Coding Skills (NumPy, Pandas) - Analyze and visualize geology data sets using Python. Reading information from geophysics data imaging through a python project.
- ❖ Geophysics Survey – Familiar with multiple different type of geophysics survey, do the data analysis and figure reading by Python, have field experience for ERT and Seismic survey.
- ❖ Soil sampling – Ability to distinguish and sort different soil layer units, write detailed field note for soil properties, have field experience for Glacial soil sampling.
- ❖ Project management - Do research projects individually or work with a team, including topic choose, research design, paper writing and project presentation.

Tools: Google earth, Leica acquire, Jupyter notebook, MS office, Geographic Information System (QGIS), Phreeqc, R code, XRF

Certification: BC 5 class driver's license; First aid & CPR/AED level C; PAL; WHMIS; Supervising Ground disturbance 201; Construction Safety training system (CSTS) – Fundamentals.

Work experience

Assistant Geophysical field technician – ERT and Seismic survey

Frontier Geoscience – September 2024 - December 2024

- Seismic field work – Use several methods such as shotgun shoot, hammer hit and heavy drop to recording the reflection and refraction seismic wave.
- ERT – Set metal sticks lines and recording the electrical resistivity of the underground unit.
- Combine seismic and electrical resistivity data to determine underground material type.

Assistant Geologist – Soil Sampling and Geological Mapping

Equity Explorationn – Equity Exploration & Evolution Mining – July 2024 -September 2024

- As an assistant geologist do soil sampling in field near Pickle Lake & Salton for two rotations.
 - Distinguished and sorted soil types and record the geological properties of the sample in field.
 - Sampling the outcrop rock, record properties and potential mineral, measure the structural data.
-

- Do field work by helicopter and ATV with small team.

Mineral Deposits Research Project Assistant

UBC – UBC Geology MDRU Department & Selwyn Chihong company - July 2023 - September 2023

- As a research assistant for the Master's research project about the Sphalerite (Zn,Fe)S & Galena (PbS) mineral deposits in Yukon Area, cooperated with Selwyn Chihong company.
- Using Chemical method and X-ray to test the related mineral composition in core samples.
- Data analysis for the core samples with excel and stereonet.
- Do outdoor field trips by helicopter in the Howard Pass area and try to find evidence of shale hosted massive sulphide environments for mineral deposits.
- Helping to rebuild a possible underground structure of the mineral deposits in Howard Pass.

Projects

Mt. Keogan and White Lake protected Area Geological mapping- Field techniques.

UBC - EOSC328: Field Geology - May 2023

- 20 days long Field trip in Mt. Keogan and white lake area including field book recording, geological structure sketch & measurement, sample collection & analysis and stereonet data analysis.
- Draw professional geological maps and related cross sections based on the datasets collected during the field trip.
- Analyze the formation history of the Mt. Keogan and White Lake Protected Area.

Personal project: Analysis of formation history of AOM-produced concretion in marine rocks

UBC – EOSC448: Directed studies – September 2023 – April 2024

- Analysis of the formation process of concretions in two mineral deposits areas (XYC and DON)
- Discuss the formation reason for concretions in marine rocks.
- Compare with other concretions formation areas and build a systematic formation history for concretions produced by anaerobic oxidation of methane.

Education

Bachelor of Science, Geology

September 2019 – May 2024

University of British Columbia, Vancouver

- Thomas and Marguerite MacKay Memorial Scholarship - \$1500

Related Courses Taken:

- Field Techniques & Geological Mapping; Mineral deposits; Structural Geology; Computer Methods in Earth, Ocean, and Atmospheric Sciences; Petrology; Principles of Physical Hydrogeology; Geological Time and Stratigraphy; Exploration Geophysics; Principles of Geomorphology; Introductory Petrology; Mineralogy; Topography; Aqueous geochemistry

Leadership and Volunteer Experience

Orientation Leader

UBC – Vantage College - July 2022 - September 2022

- Trained systematically with workshops as a leader.
- Built the connections between first-year students and the UBC community and cultures.
- Facilitated first-year students better fit the future college life.

Language Program Assistant

UBC – UBC Chinese Language Program - January 2021- April 2021

- Assisted in students with Chinese oral practices.
- Helped students to review and preview course materials.
- Assisted professor to mark the monologue and role play.