

# Darius Kamal (BSc Honours Geology, G.I.T.)

1510 West 13<sup>th</sup>, Vancouver, V6J 2G4.  
(778)-985-5230.  
dkamal@eoas.ubc.ca  
UK Citizen, Canadian Permanent Resident.

Highly motivated exploration geologist with 3 years Porphyry Cu-Mo industry experience. Currently undertaking a MSc in Structural Geology at the University of British Columbia studying the geometry and kinematic history of the Howard's Pass Zn-Pb deposits, Yukon.

## Education

University of British Columbia, Vancouver  
Faculty of Science: MSc in Geological Sciences

July 2020 – Present

## Publications

Kamal, D. and Hickey, K.A., 2021. The geometry and kinematic history of Cordilleran deformation at the Howard's Pass shale-hosted massive sulphide deposit, Yukon: 1st year progress report. In: Yukon Exploration and Geology 2020, K.E. MacFarlane (ed.), Yukon Geological Survey, p. 137–156.

University of British Columbia, Vancouver  
Faculty of Science: Honours Geological Sciences.

September 2013 – May 2017

Honours thesis title: *Textural Characteristics and Chemical Composition of Chlorite from the Guichon Creek Batholith, South-Central British Columbia*

- Focused on chlorite alteration and its ability to be used as a vector mineral within Porphyry Cu systems. Conducted on the Highland Valley Copper system located near Kamloops, British Columbia.
- Involved detailed field work, petrography, and geochemical analysis conducted to determine whether chlorite grains could be used as a vector towards mineralizing fluid sources. Petrographic and microprobe work was used to differentiate between chlorite forming in the potassic, propylitic, and sodic-calcic alteration regions and outside of the known alteration footprint around the HVC copper deposits.
- Completed as part of the CMIC Footprints Project in tandem with Teck Resources. Included presentations at Round Up 2017 and final presentation to MDRU Faculty and peers.

## Work/Volunteer Experience

Society of Economic Geologist (SEG) Student Chapter  
UBC Vice President (volunteer)

Present

Exploration Geologist  
Teck Resources  
Key deliverables:

May 2017 – May 2020

- Assessment report writing: In charge of writing and compiling large scale reports in compliance with the BC Mines Act and synthesizing information into a comprehensive report detailing the work completed on mineral claims across several departments. Report was submitted to the government.
- Target Generation using ArcGIS Model Builder to synthesize large data sets to produce new targets in an area that has seen over 100 years of exploration. Assigned with an end goal and time frame and left to figure out how the deliverables would be created. Detailed Excel and ArcGIS work was used to merge and create usable data sets from dozens of geologists. Arc Model Builder was used to create computer models

that can be re-ran as new data is created. The focus was on Residual Potential and Predicted Prospectivity to be combined into one layer with targets. Previous targets were identified and brand-new targets were highlighted and presented to senior management.

- Geological mapping at the 1:2000 and 1:5000 scale using the Anaconda method to record lithology, structure, alteration, veining, and mineralization. Follow up drill testing was conducted.
- Detailed geological and geotechnical core logging (15km) including hyperspectral data acquisition and interpretation. Synthesizing detailed observations to create in-depth paragenetic sequences for veining/mineralization in poorly understood regions. Cross section work and interpretations with a focus on structure and fluid pathways to condemn or recommend exploration targets within the district. Recent projects include structural reinterpretation of one of our pits with multiple sections, long sections, and plan map reconciliation.
- 3D modelling and interpretation of geochemical drill hole data using loGas and Leapfrog to generate and update geological models. Detailed geochemical analysis across deposits using major and trace elements to determine separate lithological units, hydrothermal alteration, and mineral species.
- Drill hole staking and assisting archaeological crews as part of community relations and liaising with First Nation bands on new greenfield projects to foster a collaborative work environment.
- Created and presented budgets to North American Senior Management for projects at HVC.

**Geological Field Assistant/Lab Assistant**

**May 2016 – May 2017**

Canadian Mining Innovative Council (CMIC)

- Assisted with a variety of surveys and sampling techniques throughout the field season. These include sampling, soil sampling, microbial sampling, a self-potential survey, a seismic survey, tree-coring, geological mapping, core-logging, as well as data entry and analysis/interpretation.
- Lab responsibilities included rock preparation and cutting, data entry and analysis, and sample analysis.

**Achievements and Awards**

Egil H. Lorntzen Scholarship	May 2021 (3367 CAD)
Colin D. Spence Memorial Scholarship	April 2021 (5900 CAD)
SEGCF Graduate Student Fellowship	April 2021 (5000 CAD)
CSA Global and PDAC Peter Howe Bursary	January 2021 (3000 CAD)
CIM Graduate Scholarship	November 2020 (2000 CAD)
Thomas and Marguerite MacKay Memorial Scholarship	November 2016 (1500 CAD)
Endeavour Silver Corporation Undergraduate Scholarship	November 2015 (2500 CAD)
AP Canadian National Scholar	August 2013 (4000 CAD)
UBC Chancellor Scholarship	April 2013

**Other Certifications**

<b>SEG Member</b>	<b>Present</b>
<b>PDAC Member (267680)</b>	<b>Present</b>
<b>EGBC Geologist in Training (G.I.T)</b>	<b>May 2017 - Present</b>
<b>Emergency First Aid for Industry with Transportation Endorsement</b>	<b>May 2018</b>