

Kathryn R. G. MacWilliam, M.Sc.

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Summary

Ambitious and motivated geologist with 10+ years' industry and academic experience in the exploration and mining sector. I have experience in regional and near mine exploration, and underground and open pit mining, and my interests and expertise include deposit genesis, geological modelling, structural geology, geochronology, and regional metallogeny. I am seeking a position where I can combine my industry skills and research interests practically for the benefit of improving exploration and mining decisions.

Key skills

- Deposit genesis, evolution and architecture.
- Regional metallogeny and geology.
- Exploration project implementation and management, including drill rig management, and budgeting.
- 3D geological modelling.
- Geological and geotechnical core logging.
- Technical report writing and tenement management.
- Software: Leapfrog, Vulcan, GEMS, MapInfo, ArcGIS, ioGAS, Rocscience DIPS, Iolite, Isoplot, Microsoft office suite, Adobe design suite.
- Lab equipment: reflected and transmitted light microscope, SEM, LA-ICPMS, FPXRF, and Terraspec.
- Analytical and critical thinker.
- Adaptable, flexible and a quick learner.
- Efficient, diligent and detail oriented.

Degrees

University of British Columbia, Ph. D. Geological Sciences – Economic geology

2014 – 2018 (expected) Supervisors: Dr. Murray Allan and Dr. Craig Hart

Title: Geology and genesis of the Coffee Gold deposit, west-central Yukon, Canada: implications for the structural, magmatic and metallogenic evolution of the Dawson Range, and gold exploration models.

Ohio University, M. Sc. Geoscience

2004 – 2006 Supervisor: Dr. R. Damian Nance

Title: Structural, geochemical and geochronological analysis of the Coatlico area, Acatlán Complex, southern Mexico.

University of Aberdeen, B. Sc. (hons) 2:1 Geoscience

1999 – 2003 Supervisor: Dr. Malcom Hole

Title: Petrography, mineralogy and trace element geochemistry of a large dyke from the Isle of Arran, and other intrusions on Arran and Islay.

Experience

Research Assistant/Ph. D. Candidate, University of British Columbia

August 2014 to present

Deposit and regional geological mapping; trench mapping; core logging; geological modelling; derivative mapping and interpretation of large geophysical and soil geochemical datasets; hyperspectral geology; U-Pb and Ar-Ar geochronology; (U-Th)/He and fission track thermochronology; LA-ICPMS pyrite chemistry, optical and SEM petrography; deposit genesis and evolution; regional metallogeny; report and manuscript writing.

Exploration Geologist, Goldcorp, Yukon, Canada

May 2017 to July 2017

Fixed term summer contract at the Coffee project. RC and drill core logging of exploration and infill holes; geotechnical core logging; supervising core shack geologist; training of core logging geologists; implementation and training of geological framework; providing scientific and technical input during exploration.

Teaching Assistant, University of British Columbia

August 2014 to May 2017

EOSC 210 – Earth Science for Engineers

EOSC 223 – Field Techniques (in class and field school)

EOSC 330 – Principles of Geomorphology

Contract Geologist, Kaminak Gold Corp., Yukon, Canada

August 2014 to August 2016

Core logging, field mapping, trench mapping, drill rig supervision, geological modelling.

Project Exploration Geologist, MacPhersons Resources, Western Australia

March 2013 to August 2014

Exploration management; target generation; drill program design and implementation; drill rig supervision; geological and geotechnical core logging; soil sampling program design and supervision; regolith mapping; tenement management; technical report writing; hyperspectral data interpretation; historical data interpretation; site safety and health representative; training and supervision of junior staff.

Contract Exploration Geologist, Phoenix Copper, South Australia

January 2013 to March 2013

Drill program design, management and implementation; AC chip logging.

Contract Exploration Geologist, Thor Mining, South Australia

July 2012 to December 2012

Remote green and brown field exploration; historical data interpretation; hyperspectral data interpretation; technical report writing.

Open Pit Mine Geologist, Oz Minerals, South Australia

June 2011 to July 2012

Grade control; RC grade control drill hole design; RC chip logging; ore block design and modelling; geology, resource and block modelling; reconciliation; ore mark up and mapping; site health and safety representative.

Underground Exploration Geologist, Newmont Mining, Western Australia & Northern Territories
January 2010 to June 2011

Target generation; drill program design and implementation for up to seven drill rigs; drill rig scheduling and management of up to seven drill rigs; geological and structural modelling; geological core logging; core yard supervision; report writing; completing of SOPs, JHAs, and incident investigations.

Underground Mine Geologist, Newmont Mining, Western Australia
July 2008 to January 2010

Grade control; face and drive mapping; stope and level plan sign offs; geological core logging; reconciliation; drill rig and laboratory auditing; training and supervision of junior staff; site safety and health representative.

Research Assistant, Auckland University, New Zealand
August 2006 to July 2008

Surface and underground geology and structural mapping of epithermal ore deposits; historical data interpretation; technical report writing.

Teaching Assistant, Ohio University, USA
August 2004 to August 2006

GEOL 1010 – Introduction to Geology
GEOL 4760 – Subsurface Methods

Research Assistant, Ohio University, USA
August 2004 to August 2006

Research within the IGCP Project No.497 “The Rheic Ocean: Its Origin, Evolution and Correlatives”.

Petrographer, Core Laboratories, Scotland
August 2003 to August 2004

Petrographic analysis; technical report writing.

Professional development courses

Geochemistry of hydrothermal ore deposits. University of Ottawa, 2017.
Economic Guidelines for Mineral Exploration. KLS Geological, with Dr. M. Doggett, 2017.
Exploration Safety for Management and Project Supervisors. AME, 2017.
Introduction to Exploration Safety Workshop. AME, 2017.
Gold Deposit Models, Targeting and Exploration. MDRU, 2017.
Geophysics for Geologists. AMEBC, 2017.
Western Tethyan Metallogeny Day. MDRU, 2016.
Geology of Granite-Greenstone Terranes and their Mineral Deposits. SEG-AMEBC, 2016.
Understanding alteration: uses in exploration and mining. SEG-AMEBC, 2015.
Orogenic Gold Deposits: Global Distribution to Deposit Models to Exploration Models. MDRU, 2015.
Precious Metal Deposits of the Northern Cordillera. M.E.G, 2015
Leapfrog Geo Fundamentals: Aranz Geo, 2014.
Advanced structural geology in exploration and mining. SRK consulting, 2014.
Project management fundamentals. Australian Institute of Management, 2011.

Awards

SEGF STF-16 (student field trip): Carlin-type gold deposits of Northern Nevada, USA, 2017, participant.

AMEBC Roundup student poster prize 2017.

Western Copper and Gold Corporation GAC-MAC student poster prize 2016.

AMEBC Roundup student poster prize 2016.

SEG Graduate Research Grant 2015.

Bradshaw Scholarship 2015.

UBC graduate tuition award 2014-2018.

UBC Faculty of Science PhD tuition award 2014-2018.

UBC Faculty of Science Graduate award 2014-2018.

Ohio University graduate tuition award 2004-2006.

Ohio University teaching assistantship 2004-2006.

Ohio University research assistantship 2004-2006.