

Drew Heasman, P.Geo, MSc

Geoscience · Data Science · Exploration Strategy

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EXECUTIVE SUMMARY

Professional Geoscientist with 20+ years of experience across mineral exploration, geodata leadership, and applied data science. Founder of SMCG, delivering ML-ready data systems, prospectivity workflows, QA/QC visibility, and decision-support tools.

Internationally recognized for award-winning applications of machine learning and AI to mineral exploration, including the Frank Arnott – Next Generation Explorers Award and the Dundee Precious Metals Future Explorers Challenge. Combines deep exploration judgment with computer-science-driven methods that are transparent, reproducible, and defensible.

PROFESSIONAL WORK EXPERIENCE

ATHA ENERGY (FORMERLY LATITUDE URANIUM), St. John's, NL

Director Geodata, Jan 2022 – Dec 2025

Lead geodata strategy and advanced analytics supporting uranium exploration programs in Newfoundland, Nunavut, Saskatchewan and district-scale settings

- Designed and implemented ML-ready geological data systems integrating drill, geochem, geophysics, and mapping data
- Led development of machine-learning models for targeting and anomaly detection
- Established QA/QC standards and automated validation across exploration datasets
- Directed acquisition, processing, and integration of public and proprietary datasets
- Translated complex analytics into decision-ready outputs for technical teams and executives
- Maintained active R&D program applying ML, AI, and NLP to economic geology
- Mentored geologists in interdisciplinary data-science techniques

ROYAL CANADIAN NAVAL RESERVE, HMCS CABOT

Lieutenant (Navy), Intelligence Officer & Operations Officer, Nov 2019 – Present

Provide intelligence analysis, reporting, and operational leadership in a reserve capacity. Experience includes structured analytical methods, briefing senior leadership, and team leadership under time-constrained conditions.

LAKSHMI CONSULTING LTD., Saskatoon, SK

Field Supervisor, Sept 2021 – Jan 2022

Wellsite Geologist, Mar 2012 – Sept 2021

ORANO RESOURCES CANADA INC., Saskatoon, SK

Exploration Geologist (Northern Saskatchewan and Nunavut), Mar 2005 - Mar 2012

KIRKLAND LAKE GOLD, Kirkland Lake, ON

Geologist (Northern Ontario), May 2004 - Mar 2005

EDUCATION

UNIVERSITY OF SASKATCHEWAN

Saskatoon, SK

Master of Science (MSc) Geological Sciences

Information-Theoretic Approaches to Curating and Analyzing Geoscientific Text: A Case Study using the xDD Database

ATHABASCA UNIVERSITY

Athabasca, AB

Bachelor of Science (BSc) Computing and Information Systems

Awards & Honors: Honours List

BRANDON UNIVERSITY

Brandon, MB

Bachelor of Science Honours (BSc) Geology

AWARDS AND RECONGITION

- *Frank Arnott – Next Generation Explorers **Grand Prize** Award (2022)*
- *Frank Arnott – Next Generation Explorers “**Impact and Exploration Significance**” Award (2022)*
- *Dundee Precious Metals – Future Explorers Challenge **First Prize** Winner (2024)*

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

- Certified Professional Data Scientist
- CODES Ore Deposit Models & Exploration Strategies (graduate course)
- CODES Structural Controls on Fluid Flow & Mineralisation
- PDAC: Machine Learning in Mining Geoscience (2019)
- PDAC: Digital Exploration Tools (2022)
- PDAC: Data Integration for Discovery (2023)
- ESRI Canada — ArcGIS Pro (multiple courses)

PROFESSIONAL SERVICE AND COMMUNITY

- Volunteer technical writer — DataKind
- Volunteer Experience Review Committee — APEGS