

Drew Heasman, MSc. P.Geo

Geologist | Data Scientist

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Newfoundland
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HIGHLIGHTS

- Professional Geoscientist (P.Geo) with 20+ years in mineral exploration and data science.
- MSc in Geological Sciences (applied AI, NLP, and information theory); BSc (Geology); BSc (Computing & Information Systems, in progress).
- Certified Professional Data Scientist with 500+ hrs of advanced coursework (Python, ML, SQL, GIS).
- International multi-award-winning in geo-ML (Frank Arnott Award 2022; Dundee Precious Metals Future Explorers Challenge 2024).
- Director-level leadership in geodata management, exploration targeting, and decision support.
- Naval Reserve Intelligence Officer — strategic analysis, reporting, leadership.

PROFESSIONAL WORK EXPERIENCE

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

Director Geodata, Jan 2022 – Present

- Use data and geological and AI/machine learning methods to generate new ideas and targets. Developed a ML model to delineate
- Coordinates, supervises, develops, and maintains geological databases, including the acquisition and storage of precompetitive/public data.
- Coordinates and supervises geological, geophysical, and geochemical data acquisition, data processing, and data storage.
- Research relevant geological concepts and models to better understand and increase exploration potential in the respective geological environments.
- Project planning and implementation, ensuring data projects align with the company goals.
- Process and manage data for analysis, modeling, and presentation.
- Contribute to preparing technical reports and company presentations assisting in data communication and data visualization.
- Maintain ongoing research and development of practical computer science methods (machine learning and artificial intelligence) in application to economic geology.
- Coordinate with the exploration team to enhance the collection of geological data and develop and maintain high standards of QA/QC as it relates to data management.
- Teach and lead colleagues on new interdisciplinary techniques in the application of computer science concepts to geologically defined problems.

ROYAL CANADIAN NAVAL RESERVE, HMCS CABOT

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

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 (Apr 2004)

AWARDS AND RECONGITION

- Athabasca University Honours List (July 2019)
- 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, COURSES AND COMMUNITY ENGAGEMENT

- Certified Professional Data Scientist.
- CODES Ore Deposit Models and Exploration Strategies Graduate Course.
- CODES Structural Controls on Fluid Flow and Mineralisation in Hydrothermal Systems.
- Exploratory Data Analysis.
- PDAC 2019 Concepts and Application of Machine Learning to Mining Geoscience.
- PDAC 2022 Digital Exploration Tools.
- PDAC 2023 Better integration of mineral exploration data to support discovery
- Multiple ESRI Canada ArcGIS Pro training courses.
- Volunteer technical writer for DataKind.
- Volunteer Experience Review Committee for APEGS.

PROFILES

- <https://www.linkedin.com/in/drew-heasman/>
- <https://github.com/DHeasmanGDS>