

GAC-MAC London 2021



November 1-5, 2021



Exploring Geosciences Through Time and Space
Explorer les géosciences à travers le temps et l'espace

Introduction to Data Analytics and Machine Learning for Geologists

Organizers: Jessica Stromberg (CSIRO Mineral Resources) and Shawn Hood (Goldspot Discoveries), jessica.stomberg@csiro.au

2 day pre-meeting Virtual Workshop - Monday November 1 to Tuesday November 2, 2021

A practical introductory course aimed at geologists in mineral exploration and mining. The participants will be given an overview of modern data analytics methods, including machine learning, illustrated by practical case studies across multiple commodities. There will be exercises using a range of geoscience datasets including geochemistry, geophysics and hyperspectral mineralogy for the participant to practice with the new methods they have learnt. These tutorials will use a diverse range of software, including free machine learning software (KNIME), a Python package for geochemical data analysis (Pyrolite) and CSIRO-developed multiscale wavelet analysis for drill hole data (Data Mosaic). Knowledge of introductory statistics and some Python could be useful but is not required.

Instructors:

Dr. June Hill, CSIRO Mineral Resources
Dr. Shawn Hood, Goldspot Discoveries
Dr. Morgan Williams, CSIRO Mineral Resources
Shervin Azad, MSc, Goldspot Discoveries
Dr. Jessica Stromberg, CSIRO Mineral Resources

Intended audience: Industry, Government and Academic Researchers, Students

Sponsors: CSIRO Mineral Resources, Goldspot Discoveries Corp.

Registration information:

- 1) Event Date/Time: 2 days: November 1-2, 2021, 4 hours/day 8:00 am to 12:00 noon (EST)
- 2) Format: Virtual
- 3) Registration Cost: \$100 Students; \$250 Academics; \$350 Industry
- 4) Registration Cap: unlimited
- 5) Registration Deadline: November 1, 2021