Alexi Morin

B.Eng. candidate

Studies

Geological engineering (with honors)

Since 2018

Université Laval, Québec

- Followed three graduate level courses

Skills

- Proficient with python, Matlab, C# and VBA
- Experienced with machine learning methods and tools (pyMC, scikit-learn, pytorch)
- Skilled with GIS software and libraries (ArcGIS, QGIS, rasterio, geopandas, shapely)
- Bilingual (French and English), intermediate Spanish
- Quick learner and team player, favors a mathematical approach for solving problems

Geoscience experiences

Research assistant in glaciology and geophysics Simon Fraser University, Vancouver Summer 2020

- Geographical and geophysical data analysis with python
- Use of Bayesian statistics and machine learning to model glacier bed topography

Research assistant in hydrogeology and geotechnical engineering Université Laval, Québec

Fall 2019

- Data analysis, statistical methods and database management with python
- Planning and carrying out lab work to characterize properties of cement-bentonite grouting

Rock mechanics intern Ministère des transports, Québec Summer 2019

- Project planning a technological transfer and creation of tools for managing the database of rock
- Structural geology analysis of rock massifs and use of appropriate tools for numerical modelling
- Writing reports following fieldwork

Presentations

October 2020
May 2020
2020 2020
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