



## STAFF PROFILE



**Patrik, T. Schmidt, M.Sc., GIT**  
Exploration Geologist

### EDUCATION

- Eberhard Karls University, Tübingen / 2013
  - Diplom (M.Sc equivalent)
- University of Windsor / 2015-currently
  - Ph.D.

### EXPERIENCE SUMMARY

Patrik began his geology career with Dahrouge as a student geologist in 2008. Since then Patrik has gained experience in various commodities including base and precious metals, rare metals (tantalum, niobium), rare earth elements (REEs), lithium, graphite, phosphate, fluorspar, titanium, cobalt, diamonds, as well as frac-sand. Patrik's project experience ranges from grassroots through to advanced exploration programs including logistically complex helicopter-supported surface and drill programs. He is experienced with managing small to medium field programs and co-managing large field programs. Additionally, Patrik's PhD work on the Eldor Carbonatite Complex has resulted in several new exploration vectors as well as a revised geological model. He is a skilled mineralogist and has a strong comprehension of the geological environments, and their mineral potential, that he explores on behalf of Dahrouge's clients.

### DEPOSIT TYPES

- VMS & Porphyry style base and precious metals
- Orogenic gold
- Pegmatite hosted lithium and tantalum
- Five-element vein/hydrothermal Co-Ag-Ni-Cu
- Ultramafic Ni-Cu-Co-PGE
- Carbonatite hosted REE, fluorspar, phosphate, niobium, tantalum
- Uranium (unconformity type)
- Graphite (metamorphic)
- Frac Sand
- Diamond

### LANGUAGES

- English (fluent)
- German (fluent)
- French (basic/high school)

### SOFTWARE & INSTRUMENTATION

- ArcGIS
- ExpertGPS
- ioGAS
- Microsoft Office Suite

### CERTIFICATES

- Standard First Aid-CNESST (A+)

### PROFESSIONAL ASSOCIATIONS

- OGQ
- APGO



## PROFESSIONAL EXPERIENCE:

PROJECT	DETAILS
<b>Zn, Cu, Ag, Gold, &amp; Pb (VMS)</b> <i>Saskatchewan, Canada</i> Exploration Geologist 2020	<ul style="list-style-type: none"><li>Managed helicopter supported exploration drill program, as well as overall project development<ul style="list-style-type: none"><li>Managed helicopter supported prospecting/exploration program Managed remote camp (up to 15 staff)</li><li>Organize various line cutting and geophysical surveys (ground magnetics and IP)</li><li>Managed exploration and development budgets of ~2,000,000 CAD</li></ul></li><li>Discovered extensive VMS-related alteration and favorable mineralization in multiple holes several km from the main deposit</li></ul>
<b>Gold (orogenic), Cu, Au, Ni, Co, Ag, &amp; PGE (VMS &amp; ultramafic)</b> <i>Quebec, Canada</i> Exploration Geologist 2019	<ul style="list-style-type: none"><li>Managed helicopter supported prospecting/exploration program leading to the discovery of the Elsass Copper Prospect, as well as several new lithium and gold prospects<ul style="list-style-type: none"><li>Logistics, targeting, field protocols, data capture, reporting</li><li>Planned geophysical surveys</li><li>James Bay / Abitibi regions</li><li>Mineralogical and petrological identification using microscope and SEM</li></ul></li></ul>
<b>Rare Earth Elements (carbonatite, carbothermal), Fluorspar</b> <i>Eastern Canada</i> Student Geologist / Exploration Geologist / Field Manager 2010-Present	<ul style="list-style-type: none"><li>Execute and co-manage all aspects of surface and drill exploration programs<ul style="list-style-type: none"><li>Geotechnical and geological logging</li><li>Prospecting and mapping</li><li>Plan, sample, and map trenches</li><li>Plan and execute drill programs</li><li>Oversee drilling activity</li><li>Supervise sampling and logging</li><li>Hydrological and environmental monitoring</li><li>Evaluate and report results to project manager</li></ul></li><li>Manage remote field camp of up to 18 staff</li><li>Initial research of deposit formation and identification of mineralogy using EMPA (WDS and EDX).</li><li>Provided support to various field and office components of a Preliminary Economic Assessment and Pre-feasibility Study for the Ashram Rare Earth Project</li></ul>



## STAFF PROFILE

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### Niobium, Tantalum, & Phosphate (Carbonatite)

*Eastern Canada*

Student Geologist / Exploration

Geologist / Field Manager

2008-Present

- Execute and Co-manage surface and drill exploration programs
  - Logistics, targeting, field protocols, core logging, data capture, reporting
  - Managed remote camp (up to 18 staff)
  - Co-managed exploration and development budgets of <500,000 to over 1,000,000 CAD annually
- Meet with indigenous groups, & investors
- Speaker and presenter at Society of Geology applied (2017), Resources for Future Generations (2018), and contributor to multiple industry presentations

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### Lithium (Pegmatite)

*Eastern Canada*

Exploration Geologist / Field Manager

2018

- Co-managed all aspects of a surface exploration program
  - Targeting, field protocols, and data capture
  - Prospecting and mapping
- Evaluate and report results to project manager

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### Niobium, Tantalum (Carbonatite)

*British Columbia, Canada*

Exploration Geologist / Field Manager

2018

- Organized and executed surface exploration and drill program leading to the discovery of a new carbonatite occurrence (CAP)
  - Managed field crew, spotted drill holes
  - Geological logging
  - Prospecting and mapping

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### Co, Ag, Ni, Cu (Hydrothermal / Five-element veins)

*Ontario, Canada*

Exploration Geologist / Field Manager

2018

- Co-managed all aspects of surface exploration programs
  - Planning drill program
  - Prospecting and mapping
  - Soil sampling
- Summarized and reported results to project manager

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### Co, Cu, Gold (VMS)

*British Columbia, Canada*

Exploration Geologist / Field Manager

2017

- Co-managed and executed surface exploration program
  - Sample heavy mineral concentrates for regional survey
  - Prospecting and mapping
- Summarized and reported results to project manager

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### Graphite (metamorphic)

*Eastern Canada*

Exploration Geologist / Field Manager

2017

- Co-managed all aspects of surface exploration programs
  - Mini-bulk sampling for beneficiation program
  - Prospecting and mapping
- Summarized and reported results to project manager

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### Frac Sand

*British Columbia, Canada*

Exploration Geologist

2017

- Executed surface prospecting program
    - Prospecting and mapping
  - Summarized and reported results to field manager
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### **Diamonds (Kimberlite)**

*NWT, Canada*

Exploration Geologist / Field Manager

2017

- Executed and oversaw a prospecting and geophysical (magnetics) survey
  - Managed remote camp (4 staff)

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### **Copper, Nickel, Cobalt, PGE (Ultramafic)**

*Eastern Canada*

Exploration Geologist / Field Manager

2016

- Co-managed and executed all aspects of a surface exploration program
  - Logistics, targeting, and data capture
  - Mapping, soil sampling, prospecting
- Summarized and reported results to project manager

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### **Tantalum & Niobium (Carbonatite)**

*British Columbia, Canada*

Student Geologist

2008

- Learning the duties of a geologist
    - Geotechnical and geological logging
    - Prospecting and mapping
    - Sample heavy mineral concentrates for regional survey
    - Data capture, reporting to project geologist
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# STAFF PROFILE

## PROFESSIONAL DEVELOPMENT:

DESCRIPTION	TYPE	YEAR
• Geochemistry of Hydrothermal Ore Deposits	Short Course (7days)	2015
• Society of Geology applied	Poster presentation	2017
• Resources for Future Generations	Oral presentation	2018