

## CURRICULUM VITAE

**Justin A. Mistikawy**

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### Education

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M.S. Geosciences University of Massachusetts Amherst, 2020

B.S. Geological Science Boston College, 2017, *with departmental honors*

*Research Interests: Economic Geology, Structural Geology, Igneous & Metamorphic Petrology, Mineralogy, Microanalysis, Field Geology, Environmental Geochemistry & Metasomatism, GIS.*

### Research Experience, Publications, and Technical Reports

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**Mistikawy, J.**, and Brown, J., 2023, Buyer Group International Inc., *Technical Memorandum* on Historic New Rambler Pt Deposit, Medicine Bow Mountains, WY.

Brown, J., and **Mistikawy, J.**, 2023, 1361707 B.C., Ltd., *Technical Memorandum* on Prospective Li Target Areas in SD and WY

**Mistikawy, J.**, 2023, Blue Streak REE Report for Nuvemco, LLC.

Brown, J., and **Mistikawy, J.**, 2022, Visionary Gold Corp., *Technical Memorandum* on Gold Prospectivity in Central WY,

**Mistikawy, J.**, and Brown, J., 2022, Cracker Jack Resources Pty Ltd., White Hills Soil Sampling Program 2022 Summary

**Mistikawy, J.**, Mackowiak, T., Butler, M. J., Mischenko, I. C., Cernak, R. S., and Richardson, J. B., 2020, Chromium, Manganese, Nickel, and Cobalt mobility and bioavailability from mafic-to-ultramafic mine spoil weathering in western Massachusetts, USA, *Environmental Geochemistry and Health*, Vol. 42 (10), p. 3263 – 3279

**Mistikawy, J.**, 2020, Seeing through the Ottawan Overprint, Adirondack Mtns, NY: Integrating microstructural analysis, geothermobarometry, and in-situ monazite petrochronology. Master's Thesis advised by Dr. M. L. Williams

Richardson, J. B., and **Mistikawy, J.**, 2019, Report on Cr immobility from ultramafic rock formation in the Cobble Mountain Reservoir Watershed, submitted to *Water Resources, Springfield Water and Sewer Commission, Massachusetts.*

**Mistikawy, J.**, 2017, Garnet geochronology and petrology of the Osgood schist: Implications for graphitization. Undergraduate Thesis advised by Dr. E. F. Baxter

## Professional Experience & Projects

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**Shambhala Surface and Underground Exploration 2024**, near Albany, WY – Planned surface sampling and geologic mapping campaign in pertinent mineral exploration areas near the historic New Rambler mine. Planned underground drillholes including orientations, logging forms, sampling protocols, and general oversight.

**Halleck Creek 2023 Drilling**, Wheatland, WY – Provided geologic consulting for REE exploration drilling project including drill rig oversight, core and RC chip logging, sampling, geotechnical logging, sample management and QA/QC, and database management.

**Shambhala Surface Sampling 2023**, near Albany, WY – Led field exploration/sampling campaign near historic New Rambler Pt (Cu-Au) deposit including collection of 240 total soil and rock samples that were successfully assayed by American Assay Labs in NV.

**Eastern Utah Uranium Exploration 2022 – 2023**, White Canyon area, UT – Provided geologic and BLM permitting-related consulting for U/V exploration and resource validation drilling at former underground U/V mines in eastern UT including the Rim Mine, Daneros Mine, and Tony-M Mine.

**WY/SD Li Desktop Study 2023** – Provided geologic consulting via spatial analysis and desktop study of potentially prospective Li deposits in western SD and eastern WY.

**White Hills Soil Sampling 2022**, near Kingman, AZ – Led soil sampling campaign near the Gold Basin area including collection of 462 total soil samples.

**CK Gold Deposit Drilling Program 2022**, near Cheyenne, WY – Provided geologic consulting for Au/Cu exploration drilling project including core and RC chip logging, sampling, sample management, QA/QC, database management, and NI 43-101 technical report assembly.

## Teaching Experience [Teaching Assistantships]

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Spring 2021 Introduction to Petrology, University of Wyoming

Fall 2020 Structural Geology & Tectonics, University of Wyoming

Fall 2019 Exploring Future Needs in Geo and Environmental Sciences, University of Massachusetts Amherst

Spring 2019 Introductory Geology Lab, University of Massachusetts Amherst

Fall 2018 Structural Geology, University of Massachusetts Amherst

Spring 2018 Methods in the Geosciences, University of Massachusetts Amherst

Fall 2017 Structural Geology, University of Massachusetts Amherst

## Professional Conference Abstracts & Presentations

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**Mistikawy, J.**, Biasi, J., 2024, A hydrothermal PGE deposit in southeastern WY., Joint Cordilleran and Rocky Mountain Section Meeting, GSA. *Oral presentation*

**Mistikawy, J.** Mackowiak, T., Butler, M. J., Mischenko, I. C., Cernak Sr., R. S., and Richardson, J.B., 2020, Chromium, Manganese, Nickel, and Cobalt mobility and bioavailability from mafic-to-ultramafic mine spoil weathering in western Massachusetts, USA: GSA Annual Meeting, online. *Oral presentation*.

Regan, S. P., Peck, W. H., **Mistikawy, J.**, Williams, M. L., Chiarenzelli, J. R., Baird, G. B., and Grover, T. W., 2020, Oblique extension during collisional orogenesis and the architecture of the Adirondack Mountains, southern Grenville Province: GSA Annual Meeting, online. *Co-author*.

**Mistikawy, J.**, Williams, M. L., and Regan, S. P., 2019, Timing of deformation and metamorphism of Grenvillian metapelite, Rock and Bear Ponds area, eastern Adirondack Mountains, Ticonderoga, NY: GSA Annual Meeting, Phoenix, AZ. *Oral presentation*.

**Mistikawy, J.**, Williams, M. L., and Regan, S. P., 2019, Geology of the Rock Pond region, Pharaoh Lake wilderness area, Essex County, NY: Northeast GSA annual meeting, Portland, Maine. *Poster presentation*.

**Mistikawy, J.**, 2018, Garnet geochronology and petrology of the Osgood Schist: Implications for graphitization: Northeast GSA annual meeting, Burlington, VT. *Oral presentation*.

## Research Grants & Awards

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May 2021	Lauren A. Wright & Bennie W. Troxel Student Research Award, GSA (\$2050)
Jan. 2021	Departmental Graduate Research Grant (University of Wyoming) (\$3840)
May 2019	Outstanding Teaching Assistant (UMass Amherst)
May 2018	Elinor Fierman Memorial Award (UMass Amherst) (\$501)
Mar. 2018	GSA Graduate Student Research Grant (Grant 12044-18: \$1210)

## Instrument Knowledge

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Electron probe	WDS and EDS mapping and analysis of elements
Scanning electron microscope	EDS observation of elemental distribution
Petrographic microscope	Optical observation of geologic materials
Thermal ionization mass spectrometry	Isotopic ratio analysis of Sm/Nd in garnet
Column chromatography	Ionic extraction/isolation of Sm/Nd from garnet
Ground-penetrating radar	Broad geophysical investigation of subsurface
X-ray fluorescence spectrometry	WDS analysis of bulk and trace elements
Uniaxial compression rig	Constraining rheological properties of rocks
Drill corer	Preparation of rock cores for Uniaxial compression
Frantz electromagnetic separator	Isolation of geologic materials for analysis

## Software

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QGIS & ESRI	Digital cartography and spatial analysis
Theriak-Domino	Petrologic modeling from bulk compositions
Inkscape	Open-source image drafting
ImageJ	Open-source image analysis
Adobe suite	Illustrator, Photoshop, Bridge, & InDesign
FieldMove	Field geology application
Datcon	Processing of trace element electron probe data
Microsoft Office	Word, Excel, & PowerPoint
Computer Languages	R Studio, Matlab, & Java

## Educational Outreach & Service

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Aug 2023	Prepared and led a field trip of the New Rambler historic mine property for the Wyoming State Geological Survey and US Geological Survey on behalf of BYRG.
Nov. 2019	Prepared and guided undergraduate preparation of drill core cylinders for uniaxial compression experiments
Sep. 2018 - May 2019	Served as co-coordinator of the Geosciences Guest Lecture Series at UMass Amherst
July 2019	Mentored and led undergraduate research on weathering of granitic rocks in central MA
May 2019	Volunteer judge for Massachusetts state middle school science & engineering fair, Worcester Technical High School, Worcester, MA
Feb. 2019	Volunteer judge for local middle school science & engineering fair, Westfield Middle School, Westfield, MA
Apr. 2019	Led demonstration on faulting & earthquakes with an analog sand box at the Amherst Elementary School Science Night, Amherst, MA
Apr. 2017	Taught a 1-day class on an Introduction to the Earth through Boston College Splash, a program hosted on Boston College campus for inner city Boston students grades 6 – 10, Chestnut Hill, MA
Apr. 2015	Taught a 1-day class on Climate Science on Boston College campus through Boston College Splash

## References

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Ms. JJ Brown, Director of Geology & Exploration, Hard Rock Consulting, LLC.  
[jjbrown@hardrock-consulting.com](mailto:jjbrown@hardrock-consulting.com)

Dr. Michael L. Williams, Professor, Department of Earth, Geographic, and Climate Sciences,  
University of Massachusetts Amherst. [mlw@geo.umass.edu](mailto:mlw@geo.umass.edu).

Dr. Ethan F. Baxter, Professor, Earth and Environmental Sciences, Boston College,  
[ethan.baxter@bc.edu](mailto:ethan.baxter@bc.edu)

Dr. Kenneth Galli, Lab Manager, Earth and Environmental Sciences, Boston College,  
[kenneth.galli@bc.edu](mailto:kenneth.galli@bc.edu)

Dr. Michael J. Jercinovic, Associate Professor and Director of EMSEMF, Department of Earth,  
Geographic, and Climate sciences University of Massachusetts Amherst,  
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Dr. Justin B. Richardson, Assistant Professor, Department of Environmental Sciences, University  
of Virginia, [Justin.Richardson@virginia.edu](mailto:Justin.Richardson@virginia.edu)