

Kseniya Vialichka

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EDUCATION

University of Massachusetts Lowell, Lowell MA

Bachelor of Science in Geoscience Summa Cum Laude | May 2022, 3.85 GPA

University of Oregon, Eugene OR

Doctorate | September 2022 - Present

CURRENT LAB WORK

Stable Isotopes Lab, University of Oregon, Eugene MA

September 2022 - Present

- Loading samples and corresponding standards into carousel vacuum chamber
- Skillfully operating the MAT235 mass spectrometer to acquire triple oxygen isotope signatures
- Executing precise lasering of samples and guiding the conversion process to isolate O₂ molecules effectively
- Proficiently operating and maintaining the high-temperature conversion elemental analyzer (TC/EA) to acquire deuterium signatures
- Analyzing and interpreting data, seamlessly integrating it into the broader context of the hydrothermal alteration history of the samples

RESEARCH EXPERIENCE

- Antarctica's Dry Valleys alluvial fan influence on grain size distribution (2020-2021)
- Geology of New England accreted terrain compositions (2021)
- Columbia River Basalt Chief Joseph Dike swarm paleoaltimetry (2022-present)
- Karoo South Africa mineral grain analysis for $\delta^{18}\text{O}$ and $\Delta^{17}\text{O}$ (2022-2023)
- Kamchatka VC caldera paleoaltimetry (2023-2024)
- Dharwar India whole rock analysis for $\delta^{18}\text{O}$ and δD (2023-present)

PUBLICATIONS

- Paleoaltimetry and paleotectonic reconstruction using triple oxygen and hydrogen isotopes: depleted $\delta^{18}\text{O}$ and δD values in ignimbrites of Verkhnevachinskaya caldera in Kamchatka (manuscript under Review)

RELEVANT SKILLS

- MELTS
- HydroTherm
- Spyder
- GIS

CONFERENCE PRESENTATIONS

- AGU23 | Oral Presentation: Triple Oxygen and Hydrogen Isotope Geochemistry of Intracaldera Deposits of Verkhnevachinskaya Caldera Kamchatka

AWARDS & HONORS

2020 RISE Innovation Award

President of National Earth Science Honor

Society of Sigma Gamma Epsilon at UML

Alpha Alpha Alpha Honors Society

Omicron Delta Kappa Honors Society

Kennedy College of Sciences Ambassador

Lokey Scholarship

Delta Alpha Pi Honors Society