Lissie Connors

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Education

Ph.D. Earth Science, University of Oregon Dissertation: Microanalytical investigations of magma sources, storage, and ascent at the flar Nyiragongo and Nyamulagira volcanoes Advisor: Paul J. Wallace		
B.S. Geology & Environmental Geosciences, Lafayette College Honors in Geology, minor in Environmental Science Thesis: Apatite as a Monitor of Magmatic Processes at Torfajökull Volcanic Center Research advisor: Tamara Carley	4-2018	
Research Experience		
University of Oregon Department of Earth Sciences Graduate Research Assistant	2019 –	
Lafayette College Department of Geology & Environmental Geosciences Honors thesis student 2017 -	- 2018	
American Museum of Natural History Department of Earth & Planetary Sciences NSF REU Fellow	2017	
Publications		
Connors L, Carley TL, Fiege A (2020) Apatite as a Monitor Of Dynamic Magmatic Evolution At Torfajökull Volcanic Center, Iceland: Chapter 3 In Vetere F. And Fiege A. (Eds): Dynamic Magma Evolution (AGU Geophysical Monograph), John Wiley & Sons. doi.org/10.1002/9781119521143.Ch3		
Awards, Grants, & Scholarships		
University of Oregon Earth Science Department Research Recognition Award (\$750) Warren DuPre Smith Scholarship (\$1,000) Building computational resources for data-driven petrology Johnston Scholarship (\$1,000) 3D analysis of melt inclusions using X-ray microscopy	2023 2023 2022	
Warren DuPre Smith Scholarship (\$1,000) Analysis of vapor bubbles in melt inclusions using Raman spectroscopy	2020	
Earth Sciences First Year Summer Fellowship (\$5,800)	2019	
National Science Foundation EAR Collaborative Research Award (\$227,229 – PI: Paul Wallace, listed graduate student collaborator) Volatile sources, eruption triggers, and magma ascent rates for mafic alkaline magmas at Nyiragongo and Nyamulagira volcanoes, DR Congo, East African Rift	2021	
Graduate Research Fellowship (Honorable mention, not funded)	2021	

Geological Society of America Lipman Research Award (\$2,000) Assessing magma storage and volatile fluxes in the Nyiragongo Volcanic Field	2020
Lafayette College Arthur Montgomery Geology Award	2017
Laboratory & Analytical Techniques	
 Electron microprobe analysis (EMP) Fourier-Transform Infrared Spectroscopy (FTIR) Secondary Ion Mass Spectrometry (SIMS) X-ray Absorption Near-Edge Spectroscopy (XANES) Laser Ablation ICP MS Confocal Raman Spectroscopy X-ray microscopy (XRM) Scanning Electron Microscopy (SEM) X-ray diffraction (XRD) 	
Teaching Experience	
University of Oregon Center Department of Earth Sciences Teaching Assistant Introduction to Petrology Field Studies in Fire & Ice (2-week summer field camp section) Earth Surface & Environment (online) The History of Life (online) Earth Materials (online) Exploring Earth's Environment	2019 –
Exploring Planet EarthGuest lecturerMineralogy	2022
Fort Hays State University Sternberg Museum of Natural History Teaching Assistant (Virtual middle-school camp)	2020
Lafayette College Department of Geology & Environmental Geosciences Teaching Assistant • Environmental Geology • From Fire to Ice: An Introduction to Geology	2016 – 2018
Service & Leadership	
Graduate Teaching Fellows Federation Vice President of Membership Natural Sciences Lead	2023 – 2021 – 2022
Inclusivity and Gender Diversity in Earth & Atmospheric Sciences (IgDEAS) Graduate student organizer	2019 –
Professional Experience	
American Physical Society Science Communication Intern	2019
American Geophysical Union	

Talent Pool Intern	2018
National Park Service Geoscientist-in-the-park	2018
Professional Development	
Pre-IAVCEI Conference Workshop: Modeling volatile behavior in magmas GeoPRISMS Workshop: Volatiles from source to surface UO workshop: Introduction to supercomputing Pre-Goldschmidt Conference Workshop: Diffusion modeling	2023 2022 2021 2020
Invited Presentations	
Volcanology Students of Oregon (VolcOR) Conference A first look at primitive melt inclusions from the flanks of Nyiragongo & Nyamulagira	2023
University of Southern California Lithospheric Dynamics Seminar Apatite as an indicator of pre-eruptive volatile behavior in magmatic systems	2019

Conference Presentations

Sims K, Stark GJ, Phillips E, Blichert-Toft J, Reagan M, Scott SR, Tedesco D, Wallace P, **Connors L** (2023) Lithospheric controls on alkaline volcanism: evidence from Nyiragongo and Nyamulagira volcanoes, virunga volcanic province, DR Congo, Geological Society of America Abstracts with Programs. Vol. 55, doi: 10.1130/abs/2023RM-388091

Connors L, Sublett DM, Wallace PJ, Sims KWW, Bodnar RJ, (2023) Rapid eruption run-up & magma ascent at flank vents of Nyiragongo & Nyamulagira: perspectives from diffusion in olivine, 2023 International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Scientific Assembly, oral, 9C

Cashman KV, Bussard R, **Connors L**, Harper C (2022) How is Magma Stored Beneath, and Supplied to, Regions of Distributed Volcanism? (Invited), *AGU Chapman Conference on Distributed Volcanism and Distributed Volcanic Hazards*, oral, I-3

Connors L, Sublett DM, Wallace PJ, Sims KWW, Bodnar RJ (2022) Examining volatiles and pre-eruptive storage histories of Nyiragongo's most primitive magmas, *Goldschmidt Annual Meeting 2022*, poster, 5fP3

Connors L, Sublett DM, Wallace PJ, Sims KWW, Bodnar RJ (2021) Investigating magma storage histories at flank cones of Nyiragongo and Nyamulagira with olivine-hosted melt inclusions and diffusion chronometry, *2021 Fall Meeting, American Geophysical Union*, poster, V15D-0112

Connors L, Wallace PJ, Sims KWW, Sublett DM, Bodnar RJ (2020) Tracing the sources of CO2-rich magmas at Nyiragongo and Nyamulagira using olivine-hosted melt inclusions, *2020 Fall Meeting, American Geophysical Union*, oral (virtual) <u>V026-02</u>

Tate-Jones KM, Muth M, **Connors L**, Dechert AE, Hunter B, Hampton RL & Sahakian VJ, (2020) The IDEAS Initiative: a department-wide collaboration to promote gender equity in the earth sciences, *Geological Society of America Abstracts with Programs*, Vol. 52, No. 6 (virtual) doi: <u>10.1130/abs/2020AM-358408</u>

Rein IMT, **Connors L**, Ruger EV, Carley TL, Gross J. (2020) Apatite as an indicator of pre-eruptive destabilization at Icelandic volcanoes, *Geological Society of America Abstracts with Programs*, Vol. 52, No. 6, (virtual) doi: 10.1130/abs/2020AM-358977

Carley TL, **Connors L**, Rein IMT, Ruger E, Gross J, Burger P, (2020) Major and trace element geochemistry of Icelandic apatite: A case study at Torfajökull Volcano, *Goldschmidt Abstracts*, No. 323 (virtual) *Conference moved to a virtual platform due to COVID-19

Rein I, **Connors L**, Ruger E, Carley TL, (2020) Apatite Geochemistry Across the Neovolcanic Zones of Iceland: Establishing a Baseline and Searching for Spatial LLSignificance, *Northeastern Geological Society of America Abstracts with Programs*, poster (Reston, VA) doi: 10.1130/abs/2020SE-344922 *Conference events canceled due to COVID-19

Ruger E, Rein I, **Connors L**, Carley TL (2020), Using Icelandic apatites to investigate elevated contents of Rare Earth Elements within Iceland, *Northeastern Geological Society of America Abstracts with Programs*, poster (Reston, VA) doi: 10.1130/abs/2020SE- 344930 *Conference events canceled due to COVID-19

Connors ME, Carley TL, & Fiege A, (2019), Compositional Evolution of Torfajökull Central Volcano, Iceland: Perspectives from the Apatite Record, *Northeastern Geological Society of America Abstracts with Programs*, paper 23-6, oral (Portland, ME) doi: 10.1130/abs/2019NE-328361

Connors L, Carley TL, & Fiege A, (2018) Apatite as a Monitor of Volatile and Trace Element Evolution at Torfajökull Central Volcano, Iceland, *2018 Fall Meeting, American Geophysical Union*, V11F-1313, poster (Washington, D.C.) V11F-0075C

Connors ME, Fiege A, & Carley TL (2018) Using Apatite to Investigate the Volatile History of Torfajökull Central Volcano, Iceland *Geological Society of America Abstracts with Programs*, Vol 50, No. 6, poster (Indianapolis, IN) doi: 10.1130/abs/2018AM-324303

Connors ME, Tailby ND, & Fiege A (2017) Using High-Resolution Mapping of Crystallized Melt Inclusions to Understand the Evolution of S and I-Type Volcanics from the Lachlan Fold Belt, Australia. *Geological Society of America Abstracts with Programs* Vol. 49, No. 6, paper 255-8, poster (Seattle, WA) doi: 10.1130/abs/2017AM-306207

Connors ME, & Hampton SJ (2017) Relative Age and Formation of a Phreatomagmatic Diatreme in the Mandamus Igneous Complex, New Zealand. *Northeastern Geological Society of America Abstracts with Programs*, Vol. 49, No. 2, paper 26-3, poster (Pittsburgh, PA) doi: 10.1130/abs/2017NE-290385