

William Scott Nelson

Postdoctoral Researcher

Geosciences, University of Arizona
Tucson, AZ; email: WilliamSNelson@arizona.edu

ORCID ID: 0000-0001-7296-697X

A. Professional Preparation

College/University	Major	Degree & Year
University of Colorado, Boulder	Geology – Geophysics tract	B.A. 2018
University of Colorado, Boulder	Mathematics – Applied tract	B.A. 2018
University of Hawai'i, Honolulu	Earth and Planetary Science	M.Sc 2022
University of Hawai'i, Honolulu	Geology and Geophysics	Ph.D. 2023

B. Academic/Professional Appointments

2025-Present: Postdoctoral Researcher, Geosciences, University of Arizona, Tucson, AZ
2023-2025: Assistant Researcher in Planetary Petrology, University of Hawai'i at Manoa, Honolulu, HI
2018-2023: Graduate Research Assistant, University of Hawai'i at Manoa, Honolulu, HI
2021-2022: Interim Probe Lab Operations Manager, University of Hawai'i at Manoa, Honolulu, HI
2016-2018 Undergraduate Research Assistant, Laboratory for Atmospheric and Space Physics, Boulder, Colorado

C. Publications

Nelson, W.; Hammer, J; Shea, T; (2024). Re-evaluating the diffusivity of phosphorus in olivine: implications of low diffusive mobility for thermochronology. *Geochimica et Cosmochimica Acta*

Anderson RB, Williams RME, Guilkson AL, **Nelson W.** (2023). Morphology and Paleohydrology of Intracrater Alluvial Fans North of Hellas Basin, Mars. *Icarus*

Nelson, W.; Hammer, J.; Shea, T.; Taylor, G.J.; Hellebrand, E. (2021). Chemical Heterogeneities Reveal Early Rapid Cooling of Apollo Troctolite 76535. *Nature Communications*

Chao, K.-H.; deGraffenreid, R.; Lach, M.; **Nelson, W.**; Truax, K., Gaidos, E. (2021). Lava Worlds: From Early Earth to Exoplanets. *Geochemistry*.

Vaz, D. A., Di Achille, G., Hynek, B. M., **Nelson, W.**, & Williams, R. M. E. (2020). Martian fan deposits: Insights on depositional processes and origin from mass balance survey. *Earth and Planetary Science Letters*, 533, 116049.

D. Synergistic Activities:

1. Service: Reviewer for: *Nature Communications*, *Volcanica*, *Science Advances*; Panelist for NASA funding programs
2. Outreach: 2024 Honolulu Zoo Science Summer Camp Outreach event , Kapolei High School Speaker, “EPIK” High School Speaker, 2019 and 2023 SOEST Open House, Kamehameha High School Visit, Long term volunteer for Dinosaur Ridge and Colorado School of Mines Geology Museum
3. Community Building: Huliamahi 2021-2025; SOEST IDEAL: 2024-2025