Zoë Wilbur
Graduate Research Assistant
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KNOWLEDGE SUMMARY

I possess nearly six years of experience in the detailed petrographic and geochemical studies of extraterrestrial samples (Apollo samples and meteorites), placing emphasis on the analysis of 3-dimensional fabric and shape parameters of minerals and vesicles to understand volcanic histories, the quantification of *in situ* halogens to inform on volatile inventories, and measurements of sulfides to describe meteorite formation histories.

PROFESSIONAL SUMMARY

Graduate Assistant, Lunar and Planetary Laboratory, University of Arizona	2019-present
Research Scientist, X-Ray Computed Tomography Facility at NASA's Johnson Space Center	2019
Intern, *Jacobs* Contract at NASA's Johnson Space Center	2018-2019
Undergraduate Researcher, University of Nevada, Las Vegas	2016-2018

EDUCATION

Ph.D., Planetary Sciences, University of Arizona	2019-present
M.S., Planetary Sciences, University of Arizona	2022
B.S., Geosciences, University of Nevada, Las Vegas, *Summa cum laude*	2018

FELLOWSHIPS AND SCIENCE COMMUNITY OUTREACH

Future-Investigator, Investigating Degassing Histories of Apollo 15 and 17 Lunar Basalts with 3D Visualization and Coordinated Microanalysis, Future Investigators in NASA Earth and Space Science and Technology, 2020-2023.

Hevey Fellow, Hevey Mineral Sciences Graduate Fellowship, Smithsonian Institution, Summer 2022.

Geology Team Lead, NASA SUITS (Spacesuit User Interface Technologies for Students) Challenge, 2022.

Co-editor, The Meteoritical Society Website Committee, 2020-present.

Coordinator, PLANETS (PLanetary Agender, Non-binary, womEn and Trans Scientists and Staff), 2019-present.

PEER REVIEWED PUBLICATIONS

Z. E. Wilbur, J. J. Barnes, S. A. Eckley, O. I. Jenn, R. A. Zeigler, J. W. Boyce, M. Brounce, J.L. Mosenfelder, C. A Crow, T. Hahn, T. Zega (In preparation) Volatiles, vesicles and vugs: Unraveling the magmatic and eruption histories of Steno Crater basalts.

Z. E. Wilbur, A. Udry, F. M. McCubbin, K. E. Vander Kaaden, K. Ziegler, C. Defelice, T. J. McCoy, J. Gross, B. D. Turrin, N. J. Dygert, and C. McCoy (2022) The effects of highly reduced magmatism revealed through aubrites. *Meteoritics and Planetary Science*, 57 (7), 1387-1420.

A. Udry, **Z. E. Wilbur**, R. R. Rahib, F. M. McCubbin, K. E. Vander Kaaden, T. J. McCoy, K. Ziegler, J. Gross, C. Defelice, L. M. Combs, B. D. Turrin (2019) Reclassification of four aubrites as enstatite chondrite impact melts: Potential geochemical analogues for Mercury. *Meteoritics and Planetary Science*, 54 (40), 785-810.