

**Zoë Wilbur**

Graduate Research Assistant  
The University of Arizona's Lunar and Planetary Laboratory  
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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, <i>Jacobs</i> Contract at NASA's Johnson Space Center	2018-2019
Undergraduate Researcher, University of Nevada, Las Vegas	2016-2018

**EDUCATION**

PhD, Planetary Sciences, University of Arizona's Lunar and Planetary Laboratory	2019-present
B.S., Geosciences, University of Nevada, Las Vegas, <i>Summa cum laude</i>	2018

**PROJECTS 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.  
*Team Member*, NASA SUITS (Spacesuit User Interface Technologies for Students) Challenge, 2022.  
*Co-editor*, The Meteoritical Society Website Committee, 2020-present.  
*Member*, 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, R.A. Zeigler, J.W. Boyce, M. Brounce, J.L. Mosenfelder, C.A. Crow, T. Zega (in preparation) The petrogenesis and eruption histories of Apollo Next Generation Sample Analysis 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 (in review) The effects of highly reduced magmatism revealed through aubrites.  
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.