

Maia Willis-Reddick
The University of Arizona
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Education

- 10 GCSEs, at 1 A* 4A 5B, in Geology, Spanish, Geography, English Language, English Literature, History, Chemistry, Biology, Mathematics, and Religious Education
- 3 AS Levels, ACC, in Geography, Geology, and Spanish. 3 A2 Levels, ABB, in Geography, Geology, and Spanish
- Completing degree in Geology, expected graduation May 2024.
 - Special individual focus on planetary geoscience (not part of degree program)
- Minor in Planetary Science.

Achievements

- Received the A.W. Vorhees, George H Davis, Paul E. Damon, and Department of Geosciences scholarships for academic achievement and research achievement, October 2021.
- Received 2nd place prize, Freedom From Religion Foundation Kenneth L. Prolux Memorial Scholarship Competition.
- Space Grant intern 2021-2022, working with Dr. Stefano Nerozzi at the University of Arizona.

Experience

Student worker at the University of Arizona Office of the Registrar (Jan 2021- September 2021)

- Inputted Lawful Presence information
- Answered emails from a variety of campus community members and affiliates
- Answered phone calls from students, parents, and employers
- Provided information on university policy, transcript ordering, class scheduling, and class availability
- Provided information on residency requirements, and if they had been met.

Undergraduate Research Assistant at the University of Arizona Lunar and Planetary Laboratory, Terrestrial And Planetary Investigations and Reconnaissance (TAPIR) Laboratory (June 2021-present)

- Currently working on a project utilizing SHARAD to detect and characterize subsurface reflector horizons in Planum Boreum
- Software utilized includes Seisware Geology, Arcmap, JMARS, and Python applications
- Developed Python code for determining dielectric permittivity of a substance from radar-derived information
- Presented at LPSC 2022: <http://www.hou.usra.edu/meetings/lpsc2022/pdf/2625.pdf>.
- Research will be published in the near future.

University mentor, Project POEM (August 2021- June 2022)

- Mentored visually impaired youth virtually with planetary science education using tactile models of various planetary features
- Assisted during a week of in-person activities at the University of Arizona in which cement models of impact craters were generated and presented.

References

- Stefano Nerozzi, current supervisor- nerozzi@arizona.edu
- Jack Holt, current supervisor- jwholt@arizona.edu
- Steve Kortenka, Project POEM director- kortenka@arizona.edu