

Jason Williams

PhD Candidate
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Education

Southern Illinois University | *Carbondale, IL*
08/2017 - 05/2021 | PhD Geosciences

Southern Illinois University | *Carbondale, IL*
08/2015 - 12/2017 | MS Geology

Salisbury University | *Salisbury, MD*
08/2012 - 05/2015 | BS Earth Science

Work Experience

Teaching and Research Assistant | *Southern Illinois University Carbondale*
08/2015 - Present

- Taught sedimentology/stratigraphy, geomorphology, and environmental hazards labs.
- Assisted primary investigators with stratigraphic analyses and analyzed samples using XRD.

AmeriCorps VISTA | *Greater Baltimore Urban League*
06/2017 - 08/2017

- Designed a curriculum for a out-of-school program.
- Examined relationships between race, ethnicity, income, and enrollment into college.

Publications

- Williams, J.R., McIntyre, S.L., Filiberto, J., Morrison, S.M., Hummer, D.R., 2021. Analyzing the occurrence of environmental indicator minerals using clustering techniques and mineral networks. In *EGU General Assembly 2021*. EGU.
- Williams, J.R., McIntyre, S.L., 2018. Utilizing “Big Data” visualization techniques to identify spatial and mineralogical relationships in clay-bearing deposits. In *AGU Fall Meeting 2018*. AGU.
- Williams, J., 2017. Sedimentology, Mineralogy, and Astrobiological Implications of Spring Deposits in Ten Mile Graben, Utah (Master’s Thesis, Southern Illinois University Carbondale).
- Potter-McIntyre, S.L., Williams, J., Phillips-Lander, C. and O’Connell, L., 2017. Taphonomy of microbial biosignatures in spring deposits: A comparison of modern, quaternary, and Jurassic examples. *Astrobiology*, 17(3), pp.216-230.
- O’Connell, L., Potter-McIntyre, S.L., Williams, J.R., Knuth, J. M. 2016. Facies Analysis and Comparison Of Jurassic, Quaternary, and Modern Carbonate Lake and Spring Deposits Of Ten Mile Graben, East Central Utah. In *GSA Annual Meeting*. GSA.
- Williams, J.R., Potter-McIntyre, S.L., Phillips-Lander, C.M. and O’Connell, L., 2016, March. Characterizing Spring Deposits in Ten Mile Graben, Utah, USA; Possible Terrestrial Analogs for Ancient Aqueous Environments on Mars. In *Lunar and Planetary Science Conference* (No. 1903, p. 3068).
- Williams, J.R., Potter-McIntyre, S.L., and O’Connell, L., 2015, A Jurassic Spring-Fed Lake System In The Brushy Basin Member Of The Morrison Formation, Ten Mile Graben, Utah, Usa; Biosignature Preservation And Astrobiological Implications. In *GSA Fall Meeting*. GSA.

Skills

- Programming: working knowledge of R, Python, and ArcGIS-based scripting. Entry-level knowledge of Javascript and Julia programming.
- Software: proficient using ArcGIS, QGIS, Gephi, and Adobe InDesign. Experience with database and geodatabase management systems.
- Curriculum development and mentorship.

Awards

- Dissertation Research Award, 2020
- NASA/ESA International Summer School in Astrobiology Attendee, 2016
- Lunar Planetary Institute Career Development Award, 2016
- GSA/ExxonMobil Bighorn Basin Field Award, 2014