Daniel E. Lalich

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Education:

2017 2012	University of Texas at Austin, Austin, TX Case Western Reserve University, Cleveland, OH	Ph.D., Geoscience B.S., Astronomy Physics Minor
Experience: 2018	Postdoctoral Researcher , University of Texas at Austin Mapped and analyzed radar reflectors in the Greenland ice sheet in order to	
	determine past accumulation and flow rates	
2017	Adjunct Instructor of Astronomy, Austin Community College	
2012-2017	Graduate Research Assistant , University of Texas at Austin Mapped and analyzed subsurface ice deposits on Mars using the Shallow Radar instrument on the Mars Reconnaissance Orbiter	
2009-2012	Undergraduate Research Assistant, Case Western Reserve University Collected and organized astronomical observations of nearby Cepheid variable stars. Helped develop software tools for analyzing stellar	

Publications and Presentations:

spectra.

- Lalich, D. & Holt, J.W., New Martian Climate Constraints From Radar Reflectivity Within The North Polar Layered Deposits, *Geophysical Research Letters.* (2016).
- Lalich, D., Holt, J.W., & Smith, I.B., Radar Reflectivity as a Proxy for the Dust Content of Individual Layers in the Martian North Polar Layered Deposits. In prep.
- Lalich, D. & Holt, J.W., New Constraints on Dust Content in the North Polar Layered Deposits, Mars from SHARAD Reflectivity. 48th Lunar and Planetary Science Conference (2017)
- Lalich, D. & Holt, J.W., Modeling SHARAD Reflectors As Marker Beds: A Possible Record Of Regional Accumulation Rates In The North Polar Layered Deposits, 6th International Conference on Mars Polar Science and Exploration. (2016).
- Lalich, D. & Holt, J. W., SHARAD Reflectors and Marker Beds: Unlocking the Climate Record of the North Polar Layered Deposits, Mars. 47th Lunar and Planetary Science Conference. (2016).
- Lalich, D. & Holt, J. W., Constraining Dust Content in Individual Martian NPLD Layers Using SHARAD Data. AGU Fall Meeting. (2015).
- Lalich, D., Holt, J. W. & Grima, C., Heterogeneity of SHARAD Reflectivity in the NPLD: Implications for the Climate Record. 46th Lunar and Planetary Science Conference. (2015).
- Lalich, D., Holt, J. W., & Campbell, B. A., Determining the Composition of the North Polar Layered Deposits Using SHARAD Observations and Modeling: Climate Implications, 8th International Conference on Mars. (2014).

Awards:

NASA Earth and Space Science Fellowship 2014-2017.