

THOMAS J. (TJ) SLEZAK

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EXPERIENCE

Galvanize Inc.

Data Science Immersive Student

Oct 2018 - Jan 2019

Phoenix, AZ

Brigham Young University

Research/Teaching Assistant | Supv: Jani Radebaugh

Aug 2015 - Dec 2017

Provo, UT

- Teaching Assistant for Planetary Geology, Physical Geology Lab, Intro. Geology

Lunar and Planetary Institute (USRA)

NASA SSERVI Graduate Exploration Intern | Supv: David Kring

May - Jul 2016

Houston, TX

- Planned a human/telerobotic mission to the lunar south polar region on an international team
- Delivered findings to International Space Policy Committees and NASA Headquarters

Arizona State University - Pancam/Mastcam Imaging Team

Research Aid and Lab Administrator | Supv: Austin Godber & Jim Bell

Oct 2013 - Aug 2015

Tempe, AZ

- Calibrated and processed imagery from the Pancam instrument on the Opportunity rover
- Developed PlanetaryPy, an open-source planetary data and image processing toolkit written in Python

Jet Propulsion Laboratory (JPL-Caltech)

NASA PGGURP Summer Intern | Supv: Ashley Davies

Jun - Aug 2014

Pasadena, CA

- Investigated Io's crustal strength using numerical modeling and slope stability analysis
- Tested proposed thermal conditions for sulfur and silicate compositions of Io's upper lithosphere

U.S. Geological Survey Astrogeology Science Center

Research Assistant | Supv: Laz Kestay, Chris Okubo, & Moses Milazzo

Jun - Aug 2013

Flagstaff, AZ

- Conducted finite-element slope stability analysis of paterae scarp walls on Io
- Identified physical properties and end-members for Io's crustal composition

EDUCATION

Brigham Young University

M.S. Geology | Advisors: Jani Radebaugh, Eric Christiansen, Bart Kowallis, & Mark Belk

Aug 2015 - Dec 2017

Arizona State University

B.S. Earth and Space Exploration (Geological Sciences) | Advisors: David Williams & Amanda Clarke
Minor in Science, Technology, & Society (STS)

Aug 2010 - Aug 2015

PUBLICATIONS - RECENT

Allender E.J., N.V. Almeida, J. Cook, J.J. Ende, O. Kamps, S. Mazrouei-Seidani, C. Orgel, T.J. Slezak, A.J. Soini, and D.A. Kring 2018. Traverses for the ISECG-GER Design Reference Mission for Humans on the Lunar Surface. Advances in Space Research.

Slezak T.J., J. Radebaugh, and E.H. Christiansen 2018. Quantitative Morphological Classification of Craterforms Using Multivariate Outline-Based Shape Analysis. Lunar Planet. Sci. XLVIII, #2640.

SKILLS

Tools Python, Unix/Linux, AWS, SQL, Spark, Numpy, Pandas, sklearn, SciPy, PyViz, & more
Software Anaconda, ArcGIS, QGIS, SAS JMP 13, Adobe Suite
Certificates HarvardX: Python for Research (2018), Unix Workbench (2018)