THOMAS J. (TJ) SLEZAK

tj@slezak.email | linkedin.com/in/tslezak | github.com/tjslezak | Cell: (602) 354-0733

EXPERIENCE

Galvanize Inc. Oct 2018 - Jan 2019
Data Science Immersive Student *Phoenix, AZ*

Brigham Young University Aug 2015 - Dec 2017
Research/Teaching Assistant | Supv: Jani Radebaugh *Provo, UT*

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

Lunar and Planetary Institute (USRA) May - Jul 2016
NASA SSERVI Graduate Exploration Intern | Supv: David Kring *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 Oct 2013 - Aug 2015
Research Aid and Lab Administrator | Supv: Austin Godber & Jim Bell *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) Jun - Aug 2014
NASA PGGURP Summer Intern | Supv: Ashley Davies *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 Jun - Aug 2013
Research Assistant | Supv: Laz Kestay, Chris Okubo, & Moses Milazzo *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 Aug 2015 - Dec 2017
M.S. Geology | Advisors: Jani Radebaugh, Eric Christiansen, Bart Kowallis, & Mark Belk

Arizona State University Aug 2010 - Aug 2015
B.S. Earth and Space Exploration (Geological Sciences) | Advisors: David Williams & Amanda Clarke
Minor in Science, Technology, & Society (STS)

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)