Lisette E. Melendez | Earth and Planetary Sciences

 $\label{eq:curriculum Vitae (Abbreviated)} \\ lissete@usf.edu | +1(813)217-3811 | www.planetarylis.com \\ \\ \end{tabular}$

RESEARCH INTERESTS.

My research primarily focuses on understanding the processes and formation mechanisms that shape planetary surfaces in order to constrain the evolutionary history of these planetary bodies over the course of geologic time. My research interests comprise of understanding the mineralogical composition, geomorphology, and evolutionary trends of planetary surface environments on a wide range of scales, from micro-meter sized particles within thin sections of meteorites to paraglacial features on Mars that measure in the hundreds of meters. I aim to understand how planetary surfaces are altered using both laboratory techniques, like microscopy and spectroscopy, on samples and analogues, as well as larger-scale remote-sensing and GIS techniques.

As a scientist, I am dedicated to advocating for the inclusion of those with historically minoritized identities within STEM and building communities where diverse contributions are both welcomed and listened to.

EDUCATION.

University of South Florida Honors College	Tampa, FL
Bachelor of Science – Geology w. minor in Astronomy	Aug. 2021
Cumulative GPA: 3.70 Major GPA: 4.00	
SELECT EXPERIENCE.	
Post-Baccalaureate Research Assistant	Nov. 2021 - Present
University of South Florida	Tampa, FL
Researched the ontogeny and systematics of the Pennsylvanian Cladid Crinoid	Erisocrinus
Planetary Geology Intern	Jun. 2021 - Aug. 2021
Smithsonian National Museum of Natural History	Washington D.C.
Created a boulder classification system for the diverse surface morphology of a	asteroid (101955) Bennu using the Small Body
Mapping Tool and images from the OSIRIS-REx's Camera Suite.	
Linked boulder diversity and morphology to carbonaceous chondrite meteorite	es from the museum's collection.
Curatorial Intern	Jan. 2021 – Aug. 2021
Institute for Digital Exploration	Tampa, FL
• 3D digitization of archaeological artefacts and bronze casts using LiDAR, close	-range scanning, and digital photogrammetry.
Diversity, Equity, and Inclusion Intern	Aug. 2020 - Jun. 2021
NASA Headquarters	Washington D.C.
• Developed and designed the logistics of a strategic communication series den	oting the importance of mindful and inclusive
language.	
Planetary Geology Intern	Jun. 2020 - Aug. 2020
Smithsonian National Museum of Natural History	Washington D.C.
Quantified the environmental response to deglaciation and paraglaciation wit	hin Martian craters using ArcGIS and images
from the Mars Reconnaissance Orbiter (CTX and HiRISE); won Dwornik Award	at LPSC 2021.
Planetary Geology Intern	May 2019 – Jul. 2019
Brown University Leadership Alliance	Providence, RI
 Investigated the effects of perennial dust deposits on water-ice sublimation on 	the north polar layered deposits of Mars.
SKILLS.	

Languages and SoftwarePython, MATLAB, R, ESRI ArcGIS, Small Body Mapping Tool, Adobe Creative SuiteSpacecraft DataMars Reconnaissance Orbiter's HiRISE, CTX, MOLA and OSIRIS-REx's Camera Suite

OUTREACH AND SERVICE.

Science Communication Intern	Mar. 2020 - Dec. 2020
Time Scavengers	Tampa, FL
Created content about the latest planetary science findings with the aim of making articles	more accessible to the public.
Geology Club President	Aug. 2019 – May. 2021
University of South Florida	Tampa, FL
• Founded the Geology Club's Student Peer Mentoring Program and led outreach events to	local high school students.