

Indujaa Ganesh

University of Arizona
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EDUCATION

Doctoral candidate Planetary Sciences, University of Arizona	expected 2022
Thesis: Modeling and radar studies of pyroclastic deposits on Mars and Venus	
Master of Science (<i>en route</i>) Planetary Sciences, University of Arizona	2020
Master of Technology Geoinformatics, Indian Institute of Technology Bombay	2017
Thesis: Morphometric analyses of Interior Layered Deposits in Valles Marineris	
Bachelor of Engineering Geoinformatics, Anna University	2014
Thesis: Sub-pixel analysis of slope streaks in Arabia Terra, Mars	

AWARDS & SCHOLARSHIPS

Amelia Earheart Fellowship	2021
University of Arizona Galileo Circle Scholarship	2021, 2020
Venus Exploration and Analysis Group Travel Award	2019
Future Investigators in NASA Earth and Space Science and Technology	2019
Government of India –Postgraduate Scholarship	2015
DAAD Working Internships in Science and Engineering Scholarship	2013

RESEARCH EXPERIENCE

Graduate Research Assistant , University of Arizona	
Advisor: Prof. Lynn Carter	
SHARAD mapping of Arsia Mons caldera on Mars	Aug 2017 – Jul 2019
Pyroclastic flow deposits on Venus: emplacement and radar characteristics	Jul 2019 – now
Exploration Science Summer Intern , Lunar and Planetary Institute	
Advisor: David Kring	
Investigations of potential landing sites for NASA's Artemis program	June & July, 2020
MTech. thesis , Indian Institute of Technology Bombay	
Advisor: Prof. Alok Porwal	
Geomorphology of Layered Deposits of Valles Marineris	July 2016 – May 2017
DAAD Summer Intern , Institute of Geography, University of Heidelberg	
Advisor: Prof. Bernhard Hoesle	
Processed LiDAR point clouds for LVISA project (http://lvisa.geog.uni-heidelberg.de/)	June & July, 2013

PUBLICATIONS

McGuire, L. A., Youberg, A. M., Rengers, F. K., Abramson, N. S., **Ganesh, I.**, Gorr, A. N., Hoch, O., Johnson, J. C., Lamom, P., Prescott, A. B., Zanetell, J., Fenerty, B. Extreme Precipitation Across Adjacent Burned and Unburned Watersheds Reveals Impacts of Low Severity Wildfire on Debris-Flow Processes. *Journal of Geophysical Research: Earth Surface* (2021): JGRF21328. doi: 10.1029/2020JF005997.

Ganesh, I., Carter, L. M., and Smith I. B. SHARAD mapping of Arsia Mons caldera. *Journal of Volcanology and Geothermal Research* (2019): 106748. doi: 10.1016/j.jvolgeores.2019.106748

CONFERENCE ABSTRACTS

Henz, T., **Ganesh, I.**, Carter, L. M. Measuring the Radar Properties of Pyroclastic Deposits in Eistla Regio, Venus. 52nd Lunar and Planetary Science Conference (2021). Virtual conference. #2150

Ganesh, I., McGuire, L., Carter, L. M. Dynamics of Dense Pyroclastic Flows on Venus – Insights into Pyroclastic Eruptions. 52nd Lunar and Planetary Science Conference (2021). Virtual conference. #1218

Kumari, N. **Ganesh, I.**, Lang, A., Bretzfelder J., M., Kring, D. A. Geological Diversity at Two Potential Landing Sites in the Lunar South Pole. 52nd Lunar and Planetary Science Conference (2021). Virtual conference. #1197

Bretzfelder J., M., Lang, A., **Ganesh, I.**, Kumari, N., Kring, D. A. Geological Analysis and Possible EVA Targets for an Artemis III Landing Site Bounded by Shackleton and Slater Craters. 52nd Lunar and Planetary Science Conference (2021). Virtual conference. #1148

Ganesh, I., McGuire, L., Carter, L. M. Modeling Deposition from Dense Pyroclastic Density Currents on Venus. 18th Meeting of the Venus Exploration and Analysis Group (2020). Virtual conference.

Ganesh, I., McGuire, L., Carter, L. M. Pyroclastic Flow deposition on Venus. 51st Lunar and Planetary Science Conference (2020). Cancelled.

Ganesh, I., Carter, L. M., Smith, I. SHARAD mapping of the Caldera of Arsia Mons. 50th Lunar and Planetary Science Conference (2019), The Woodlands, Texas, #1859

Ganesh, I., Carter, L. M., Smith, I. Subsurface Interfaces in the Arsia Mons Caldera - Observations from SHARAD. 49th Lunar and Planetary Science Conference (2018), The Woodlands, Texas, #2807

Ganesh, I., Porwal, A. A GIS Based Compilation of Morphometric Parameters of Valles Marineris ILDs. 48th Lunar and Planetary Science Conference (2017), The Woodlands, Texas, #2324

Sarkar, R., Singh, P., **Ganesh, I.**, Porwal, A. Origin of mass wasting features in Juventae Chasma, Mars. 47th Lunar and Planetary Science Conference (2016), The Woodlands, Texas, #1876

Singh, P., Sarkar, R., **Ganesh, I.**, Porwal, A. Origin of fluvial channels in the walls of Juventae Chasma: evidences of groundwater sapping? 47th Lunar and Planetary Science Conference (2016), The Woodlands, Texas, #1878

WORKSHOPS

NASA Planetary Volcanology Workshop, Hilo, Hawaii 2019

Workshop on Geology and Geophysics of the Solar System, Petnica, Serbia 2018

TEACHING

Undergraduates supervised

1. Triana Henz, Department of Astronomy, University of Arizona 2020 - now
Independent research project: Radar properties of pyroclastic deposits on Venus

Graduate Teaching Assistant

1. The Universe and Humanity: Origin and Destiny (University of Arizona) Fall 2018
2. Introduction to Principles of Remote Sensing (IIT Bombay) Fall 2016

SERVICE

Organizing committee , Lunar and Planetary Laboratory Conference Co-organizer for the annual intra-department conference.	2018– now
Served as executive secretary on NASA review panels	2020– now
Reviewer for Journal of Geophysical Research	2020– now