Last updated: 03/18/2024

Jaahnavee Venkatraman

UCLA Department of Earth, Planetary, and Space Sciences
Los Angeles, CA, USA
cell: (949) 613-4164 | *email:* j.venkatraman@ucla.edu

Website
GitHub

Education	2021 – Present	**Doctor of Philosophy** Planetary Science *University of California Los Angeles* Advisor: Professor David A. Paige
	2018	**Bachelor of Science** Statistics, Minor in Geophysics and Space Physics *University of California Los Angeles*
Research and Professional Experience	2021 – Present	**Graduate Student Researcher** *University of California Los Angeles* Dept. of Earth, Planetary, and Space Sciences (EPSS)
	2023 – Present	**Executive Secretary Panel Member** *LEAG-ExMAG Specific Action Team* Sample Data Infrastructure Panel
	2023	**Summer Intern** *Jet Propulsion Laboratory*
	2019 – 2021	**Staff Engineer** *Booz Allen Hamilton*
	2018 – 2019	**Engineer** *Booz Allen Hamilton*
	2017 – 2018	**Undergraduate Student Researcher** *University of California Los Angeles* Dept. of Earth, Planetary, and Space Sciences
	2016 – 2018	**Undergraduate Student Researcher** *University of California Los Angeles* Semel Institute for Neuroscience and Human Behavior
Awards and Honors	2023	UCLA EPSS Teaching Award in recognition of outstanding teaching in EPSS 101.
	2021	UCLA Graduate Division Regent's Scholarship.
	2020	Booz Allen Hamilton Silver Unflinching Courage Award for DoD PNT Program Office Certification Support.
	2019	Booz Allen Hamilton Silver Passionate Service Award for representing Booz Allen as the Communications Lead at the Society of Women Engineers Conference.
	2018	Booz Allen Hamilton Silver Passionate Service Award for supporting the firm's peripheral leadership-grooming activities.
	2018	Selected to give the UCLA Statistics Commencement speech.

Publications

1. **Venkatraman, J.**, Horvath, T., Powell, T. M. & Paige, D. A. (2023). Statistical estimated of rock-free Lunar regolith thickness from Diviner. *Planetary and Space Science, 229.* https://doi.org/10.1016/j.pss.2023.105662.
2. Rubanenko, L., **Venkatraman, J.** & Paige, D. A. (2019). Thick ice deposits in shallow simple craters on the Moon and Mercury. *Nat. Geosci. 12*, 597–601. https://doi.org/10.1038/s41561-019-0405-8.
3. Rahal, D., Chiang, J. J., Bower, J. E., Irwin, M. R., **Venkatraman, J.** & Fuligni, A. J. (2020). Subjective social status and stress responsivity in late adolescence. *Stress, 23*(1), 50-59, https://doi.org/10.1080/10253890.2019.1626369.

Conference Abstracts and Presentations

1. **Venkatraman, J.**, Martínez, C.Q-., Mc Keown, L.E., Diniega, S., Hansen, C.J., Portyankina, G., Piqueux, S. & Aye, K.-M. Exploring the link between Cryptic and Non-Cryptic Araneiform clusters and environmental factors on the Martian south pole [conference presentation abstract]. Lunar Planetary Science Conference 2024, Woodlands, TX, United States. Link.
2. **Venkatraman, J.** & Paige, D.A. Statistical Estimates of Rock-Free Lunar Regolith Thickness from Diviner [conference presentation abstract]. Lunar Planetary Science Conference 2022, Woodlands, TX, United States. Link.
3. Rubanenko, L., **Venkatraman, J.** & Paige, D.A. Accumulation of thick ice deposits in shallow craters on the Moon and Mercury [conference abstract]. American Geophysical Union Fall Meeting 2019, San Francisco, CA, United States. Link.
4. Rubanenko, L., **Venkatraman, J.** & Paige, D.A. Evidence for thick ice deposits in small, simple craters on Mercury [conference abstract]. American Geophysical Union Fall Meeting 2018, Washington D.C., United States. Link.
5. Rubanenko, L., Powell, T.M., **Venkatraman, J.** & Paige, D.A. From rocks to rubble: regolith formation rates from degrading rocks and simple craters [conference abstract]. AGU Fall Meeting 2018, Washington D.C., United States. Link.
6. Rubanenko, L., **Venkatraman, J.** & Paige, D.A. The Depth of Simple Craters and the Shadows they Cast: Evidence for Ice on Mercury and the Moon [conference abstract]. European Planetary Science Congress 2018, Berlin, Germany.
7. Rubanenko, L., **Venkatraman, J.** & Paige, D.A. The Depth of Simple Craters and the Shadows they Cast: Evidence for Ice on Mercury and the Moon [conference presentation abstract]. Lunar Planetary Science Conference 2018, Woodlands, TX, United States. Link.
8. **Venkatraman, J.**, Kim, J. J. & Fuligni, A. J. Sweet tooth dangers: Ethnic differences and associations with waist circumferences and depressive symptoms [conference presentation abstract]. Semel Undergraduate Research Conference 2018, Los Angeles, CA, United States. Link.

Teaching and Outreach

1. **TA for *EPSS 101***: *Earth's Energy - Diminishing Fossil Resources and Prospects for Sustainable Future*. Earth science and Earth's energy resources from a sustainability perspective [Winter 2023].
2. **TA for *EPSS 136 C***: *Field Geophysics.* Principles and applications of field exploration using resistivity, gravity, magnetism, seismic, and radar equipment and methods [Spring 2022].
3. Lead all **outreach for the Diviner Lunar Radiometer Instrument**. Participate in events such as UCLA EYU (Exploring Your Universe) and IOTMN (International Observe the Moon Night) to demonstrate the capabilities of infrared remote sensing [2021 - Present].
4. **Member of the UCLA URGE** (Unlearning Racism in Geoscience) Pod where we work to develop deliverables to deepen the department's knowledge on racism, diversity, and inclusion in our field [2021 - Present].
5. **Lead EPSS Planets and Exoplanets Reading Group** for discussion of recent literature amongst faculty and peers.
6. **UCLA EPSSSO** (EPSS Student Org) **member** since 2021. Served as the faculty meeting graduate student representative, and currently serve as the Math and Physical Science Council representative [2021 - Present].
7. **Society of Women Engineers (SWE) Communications Lead** for Booz Allen Hamilton at the SWE Anaheim conference [2019].
8. **Tutored** undergraduate students for lower division Statistics courses as a board member of the Statistics club [2017-2018].

Technical Skills

1. Languages: Python, MATLAB, R, SQL, Bash, VBA, HTML, CSS
2. Software: PostgreSQL, QGIS/ArcGIS, JMARS, GNU Radio
3. Instrumentation: LaCoste-Romberg Gravimeter, Proton Magnetometer, Trimble GPS, MALA Ground Penetrating Radar (450 MHz, 80 MHz)
4. Hardware: Arduino, HackRFOne Software Defined Radio, USRP x310