

Szilárd Gyalay

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EDUCATION **University of California, Santa Cruz** Beginning Fall 2017
Ph.D., Earth and Planetary Sciences

University of California, Los Angeles Sept 2012 - June 2016
B.S., Astrophysics, *Cum Laude*; departmental honors
Minor in Geophysics and Planetary Physics

RESEARCH EXPERIENCE **UCLA, Department of Earth, Planetary, and Space Sciences**
Research Associate I Beginning July 2016
Advisor: Prof. David Paige

UCLA, Department of Earth, Planetary, and Space Sciences
Undergraduate Researcher Oct 2013 - June 2016
Advisor: Prof. David Paige

2015 - 2016: Assessed LRO Diviner's nonlinear detector response and lightleak.
2014 - 2015: Created a JMARS layer for the scientific community to examine landing sites for Mars 2020. Assessed Europa Clipper orbit trajectories for a mission proposal.
2013 - 2014: Expanded number of lunar craters of which thermal radiation and albedo data from LRO were analyzed to show a correlation that implies the presence of water ice in permanently shadowed regions.

Boston University, Center for Space Physics
NSF REU Student June 2015 - Aug 2015
Advisors: Dr. Marissa Vogt & Prof. Paul Withers

Constrained periods of jovian magnetospheric compression for analysis of jovian auroral dependence on solar wind dynamic pressure.

NASA Ames Research Center
Intern June 2014 - Sept 2014
Advisor: Dr. Eldar Noe Dobra

Modeled spectra using Hapke and Shkuratov et al. theories of reflectance for use on Icebreaker Life, a proposed mission to Mars, in order to determine the water-ice content of Martian Regolith.

TECHNICAL SKILLS *Languages:* HTML, IDL, LabVIEW, L^AT_EX, Python, MATLAB
Programs: ArcGIS, Cygwin, Inkscape, JMARS

HONORS & AWARDS George and Clara Vajna Award June 2014
for excellence in the study of the Hungarian language, its literature and culture
Awarded by: UCLA Slavic Languages and Literatures

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| | Person of the Year <i>Awarded by: TIME Magazine</i> | Dec 2006 |
| TALKS | <i>Mapping Jupes' Aurora</i> Boston University Astronomy REU, Undergraduate Research Symposium | 30 July 2016 |
| CONFERENCE ABSTRACTS | <i>Solar Wind Influence on Jupiter's Magnetosphere and Aurora</i> M. Vogt, S. Gyalay, and P. Withers. European Geosciences Union General Assembly 2016, Vienna, Austria, 19 April 2016 | |
| | <i>LRO Diviner Nonlinear Detector Response Correction</i> S. Gyalay , M. Aye, and D. Paige. Abstract 2641. 47th Lunar and Planetary Science Conference, The Woodlands, Texas, 24 March 2015 | |
| | <i>Considerations of Solar Wind Dynamics in Mapping of Jupiter's auroral Features Fo Magnetospheric Sources</i> S. Gyalay , M. Vogt, and P. Withers. Abstract 62953. American Geophysical Union Fall Meeting 2015, San Francisco, California, 16 December 2015 | |
| | <i>Determining Water Ice Content of the Martian Regolith by Nonlinear Spectral Mixture Modeling</i> S. Gyalay and E. Noe Dobrea. Abstract 2170. 46th Lunar and Planetary Science Conference, The Woodlands, Texas, 19 March 2015 | |
| PROFESSIONAL MEMBERSHIPS | American Geophysical Union | July 2015 - present |
| | Phi Beta Kappa | June 2016 - present |
| ACTIVITIES & OUTREACH | UCLA Society of Physics Students (SPS) <i>Vice President, June 2015 - June 2016</i> <i>President, June 2014 - June 2015</i> | Sept 2012 - present |
| | UCLA Undergraduate Astronomical Society (UAS/SEDS) <i>Vice President, June 2015 - June 2016</i> <i>Head Telescope Operator, June 2015 - June 2016</i> <i>SEDS Ambassador, June 2014 - June 2015</i> <i>President, June 2013 - June 2014</i> | Sept 2012 - present |
| | UCLA Women in Physical Sciences (WPS) <i>Webmaster, June 2015 - Nov 2015</i> | Sept 2014 - present |
| | UCLA Physics and Astronomy Academic Affairs Committee <i>Undergraduate Representative, Sept 2015 - June 2016</i> | Sept 2015 - June 2016 |
| REFERENCES | Eldar Z. Noe Dobrea Research Scientist. NASA Ames Research Center | |

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David A. Paige

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Paul Withers

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