Emilie M. Royer, Ph.D.
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Education

2011 Ph.D. Planetary Science, Sorbonne University Pierre and Marie Curie, France
2007 M.S. Planetary Science, Sorbonne University Pierre and Marie Curie, France
2006 M.S. Geology/Science of the Earth and the Universe, University of Nantes, France

Research Interest

- Upper atmospheric dynamics and airglow processes in the ultraviolet and infrared
- Surface composition and structure of icy surfaces in the ultraviolet

Appointments

2023, August to present - *Assistant Professor of Astrophysics* at the California State University of Los Angeles (Cal State LA)
2019, May to present - *Senior Scientist at the Planetary Science Institute*
2013, Oct. to 2019, Sept. - *Research Scientist at the University of Colorado-Boulder*
- Cassini/UVIS team member – Analysis of Titan airglow
- MAVEN/IUVS Science team member – Analysis of the Nitric Oxide (NO) nightglow

2012, April to 2013 Sept. - *Caltech Postdoctoral scholar at JPL*
- Cassini/UVIS team member - Analysis of the photometric properties of icy satellites

Awards

2018: NASA Group Achievement Award for Cassini-UVIS Science team
2018: NASA Group Achievement Award for MAVEN Mission team

Selected Publications

Royer, E., Hendrix, A., Elliott, J., Esposito, L., Howett, C. and Spilker, L. (2022), Helene's surface properties from a photometric multi-wavelength analysis, Icarus, vol. 392, doi.org/10.1016/j.icarus.2022.115376

Howett, C.J.A. and Royer, E. (2021), Constraining the Surface Properties of Helene, *Icarus, vol. 360, doi:10.1016/j.icarus.2021.114366*

Schneider, N. M., Milby, Z., Jain, S. K., González-Galindo, F., Royer, E., Gérard, J.-C., Stiepen, A, Deighan, J. I., Stewart, A. I. F., Forget, F., Lefèvre, F. and Bougher, S.W. (2020), Imaging of Martian circulation patterns and atmospheric tides through MAVEN/IUVS nightglow observations, JGR Space Physics, doi:10.1029/2019JA027318

Royer, E., Esposito, L., Crary, F. and Wahlund (2018), Enhanced Airglow Signature Observed at Titan in Response to its Fluctuating Magnetospheric Environment, GRL, DOI:10.1002/2016GL071756

Royer, E., Ajello, J.M., Holsclaw, G.M., West, R.A., Esposito, L.W. and Bradley, E.T. (2017), Cassini UVIS Observations of Titan Ultraviolet Airglow Intensities Dependence with Solar Zenith Angle, GRL, DOI: 10.1002/2016GL071756

Royer E., Montmessin F. and Marcq E. (2016), Variability of the Nitric Oxide Nightglow at Venus During Solar Minimum, *JGR: Planets*, DOI :10.1002/2016JE005013