

Joshua Peter Elliott

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Education:

B.A University of Colorado Boulder, 2008, Physics

Professional Experience:

- Laboratory for Atmospheric and Space Physics (LASP), University of Colorado (2016 to Present)
 - Professional Research Assistant – Scientific Programmer (4/2016 to Present)
- National Ecological Observatory Network (NEON) (2014 to 2016)
 - Software Engineer – Remote Sensing (2/2016 to 4/2016)
 - Scientific Computer Programmer – Airborne Observation Platform (9/2014, 2/2016)
- Exelis Visual Information Solution (2008 to 2014)
 - Software Engineer II (3/2014 to 9/2014)
 - Software Engineer I (8/2011 to 3/2014)
 - Technical Support Engineer II (1/2010 to 8/2011)
 - Technical Support Engineer I (9/2008 to 1/2010)
- Laboratory for Atmospheric and Space Physics (LASP), University of Colorado (2007 to 2008)
 - Undergraduate Research Assistant (5/2007 to 8/2008)
- Physics Department, University of Colorado (2006 to 2007)
 - Undergraduate Research Assistant (5/2006 to 5/2007)

Professional Activities:

- Scientific Programmer for SORCE SOLSTICE and SORCE XPS.
- Scientific Programmer for MAVEN IUVS.
- Mentor for NEON internship program, summer 2015, for student Catherine Clark.
- Cassini UVIS team collaborator.

Volunteer Work:

- Little Thompson Observatory (2009 to Present) <http://www.starkids.org>
- Wrote code and processed images for “In Saturn’s Rings” documentary, to be released 4 May 2018. <http://insaturnsrings.com/>

Memberships:

- American Astronomical Society, Division for Planetary Sciences

- American Geophysical Union

Publication:

- **Elliott, J.P.**, Esposito, L.W., 2011. Regolith depth growth on an icy body orbiting Saturn and evolution of bidirectional reflectance due to surface composition changes. *Icarus* 212, 268-274. <http://dx.doi.org/10.1016/j.icarus.2010.10.031>

Presentations:

- **Elliott, J.P.**, Vanier, B., Snow, M., Woods, T.N., 2018. High-Spectral Resolution SORCE SOLSTICE Degradation Model and Improved Irradiance Data Products. Sun-Climate Symposium, Lake Arrowhead, CA, Mar 19-23, 2018.
- **Elliott, J.P.**, Vanier, B., Woods, T.N., 2017. XUV Photometer System (XPS): New Dark-Count Corrections Model and Improved Data Products. AGU Fall Meeting, New Orleans, LA, Dec 11-15, 2017.
- Béland, S., Sandoval, L., Vanier, B., **Elliott, J.P.**, Harder, J.W., Snow, M.A., Woods, T.N., Richard, E.C., Pilewskie, P., 2017. The Latest SORCE Solar Spectral Irradiance Data Release: Inter-Comparison and a First Look at TSIS SIM Measurement. AGU Fall Meeting, New Orleans, LA, Dec 11-15, 2017.
- **Elliott, J.P.**, Esposito, L.W., Bradley E.T., 2017. Saturn's ring age from bombardment simulation and reflectance fit to Cassini UVIS spectra. AAS Division for Planetary Sciences, Provo, UT, Oct 15-20, 2017.
- **Elliott, J.P.**, Esposito, L.W., Bradley E.T., 2016. Evolution of Fractional Pollution of Saturn's Rings and Bidirectional Reflectance with Effects of Surface Roughness compared to UVIS spectra. AAS Division for Planetary Sciences Meeting, Pasadena, CA, Oct 16-21, 2016.
- **Elliott, J.P.**, Esposito, L.W., 2015. Evolution of regolith depth and fractional pollution of Saturn's rings. AAS Division for Planetary Sciences Meeting, Washington DC, Nov 8-13, 2015.