

Curriculum Vita for David Malaspina

Contact Information

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Positions Held

2020 – Present Assistant Professor, Astrophysical and Planetary Sciences Department,
University of Colorado, Boulder (CU/APS)
2013 – 2019 Research Scientist, (CU/LASP)
2010 – 2013 Post-Doctoral Researcher, (CU/LASP)
2005 – 2010 Graduate Student, Teaching and Research Assistant (CU)

Recent Research Experience

Observation, analysis, and interpretation of plasma wave, spacecraft charging, and dust phenomena in the heliosphere using spacecraft data. Design, development, and testing of signal processing electronics and algorithms, including for NASA's Van Allen Probes Electric Fields and Waves (EFW) instrument, MMS FIELDS electric and magnetic fields instrument, and the Parker Solar Probe FIELDS electric and magnetic fields instrument, as well as the LuSEE electric and magnetic field instrument for a commercial lunar lander, and the NSF cubesat CANVAS. PI on the COUSIN sounding rocket mission. PI on the PILOT Heliophysics Mission Concept Study. Co-I and hardware developer on the AETHER instrument for Geospace Dynamics Constellation.

Education

2005	B.S. Honors Physics	Purdue University	West Lafayette, IN
2010	Ph.D. Physics	University of Colorado	Boulder, CO

Major NASA Mission Spaceflight Hardware Experience:

2022 - Present Geospace Dynamics Constellation (GDC) AETHER instrument Co-I,
Langmuir Probe Board lead
2010 - Present Solar Probe Plus (SPP), FIELDS instrument, Digital Fields Board lead
2010 - Present Magnetospheric Multiscale Mission (MMS), FIELDS instrument,
Digital Signal Processing board
2008 - 2019 Van Allen Probes, Electric Fields and Waves Instrument, Digital Fields Board

Publications:

160 peer-reviewed publications (31 first-author, 129 co-author)

Publication Lists:

<https://orcid.org/0000-0003-1191-1558>

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