

David William Gómez

Curriculum Vitae

Department of Physics and Astronomy
University of Texas at San Antonio
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REASARCH INTERESTS

Planetary Science and Evolution, Atmospheres and Surface Features,
Planetary and Solar System Formation, Stellar Evolution

EDUCATION

Physics PhD candidate	2019-present
<i>University of Texas at San Antonio</i>	
B.A. Astronomy and Physics	2015-2019
<i>Boston University</i>	

RESEARCH EXPERIENCE

Undergraduate Research Assistant
Boston University Center for Space Physics
Advised by Professor John T. Clarke
May 2017-Jul 2019

Assist in recording features of Lyman-Alpha Hydrogen and Deuterium lines with data from the Mars Atmosphere and Volatile Evolution (MAVEN) Imaging Ultraviolet Spectrograph (IUVS) high-resolution echelle channel. Make plots of the spectra of these features in order to model Martian atmospheric evolution and escape over time. Determine errors within data and diagnose possible faults with the IUVS instrument. Previously responsible for refitting an auroral image reduction pipeline for imaging of Jupiter data. Responsible for maintenance and upkeep of the group's webpage.

RESEARCH TALKS

D.W. Gómez, J.T. Clarke “*Martian Atmosphere*”, Boston University Undergraduate Astronomy Research Symposium, 2018, 15 min talk

PROJECTS

Boston University Astronomical Society, Weather Balloon Project, 2019

Computing Skills

Operating Systems

Windows, MacOS, and Linux (Ubuntu, CentOS)

Programming Languages

IDL, Python, MATLAB, HTML, CSS, Java(limited)

Additional Software Knowledge

NAIF SPICE Routines, SAOImageDS9, Beam4, Microsoft Office Suite