

William Waalkes

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Education

- 2017- (PhD) **University of Colorado**, Boulder, CO
 PhD Candidate, Astrophysics & Planetary Sciences Department
- 2013-16 (B.S.) **University of Michigan**, Ann Arbor, MI
 BS, *Magna Cum Laude*, Astronomy & Astrophysics, Physics

Employment History

- 2017- PhD Candidate, CU Boulder APS Department
- 2014-16 Research Assistant, U of M Astronomy & Astrophysics Department
- 2015 REU Intern, Smithsonian Astrophysical Observatory
- 2014 REU Intern, U of M Space Sciences Department

Awards & Honors

- 2018 NSF Graduate Research Fellow
- 2017 NSF GRFP Honorable Mention
- 2016 Chambliss Astronomy Achievement Student Award, Undergrad. Honorable Mention

Publications

Waalkes, W. et al., TOI 122b and TOI 237b, “*Two Small Warm Exoplanets Orbiting Inactive M Dwarfs Found by TESS.*” (2021), *AJ*.

Waalkes, W. et al., “*Constraining neutral hydrogen outflow and stellar host Lyman-alpha reconstruction for transiting super-Earth GJ1132b.*” (2019), *AJ*.

Crossfield, I., **William W.** et al., “*A Super-Earth and Sub-Neptune Transiting the Late-type M Dwarf LP 791-18.*” (2019), *ApJ*.

Tucker, O., **Waalkes, W.** et al., “*Examining the Exobase Approximation: DSMC Models of Titan’s Upper Atmosphere.*” (2016), *Icarus*.

Giacalone, S., and 36 other authors including **William Waalkes**. “*Vetting of 384 TESS Objects of Interest with TRICERATOPS and Statistical Validation of 12 Planet Candidates*” (2021), *AJ*

Vanderspek, R., and 46 other authors including **William Waalkes**. “*TESS Discovery of an Ultra-Short-Period Planet around the Nearby M Dwarf LHS 3844.*” (2019), *ApJ*.

Bean, J., and 101 other authors including **William Waalkes**. “*The Transiting Exoplanet Community Early Release Science Program for JWST.*” (2019), *PASP*.

Teaching Experience

2021	TA, Astronomy 1040: Accelerated Intro Astronomy 2 <i>University of Colorado Boulder</i>
2020	TA, Astronomy 3510: Astronomical Observations and Instrumentation <i>University of Colorado Boulder</i>
2018	TA, Astronomy 3400: Research Methods <i>University of Colorado Boulder</i>
2016	Lab Instructor, Astronomy 102: Introductory Astronomy <i>University of Michigan</i>
2016	Lab Instructor, Astronomy 101: The Solar System <i>University of Michigan</i>

Presentations

2019	American Astronomical Society 233 rd Meeting. “ <i>Lyman-alpha transit observations of the warm rocky exoplanet GJ1132b.</i> ” Talk.
2018	Cool Stars 20 Conference, Boston, MA. “ <i>Lyman-alpha transit observations of the warm rocky exoplanet GJ1132b.</i> ” Poster.
2016	American Astronomical Society 227 th Meeting, Kissimmee, FL. “ <i>Spatial Distribution of Small Organics in Prestellar and Protostellar Cores.</i> ” Poster. (Chambliss Honorable Mention Recipient)
2015	SAO Summer Intern Symposium at the Harvard-Smithsonian Center for Astrophysics, Cambridge, MA. “ <i>Spatial Distribution of Small Organics in Prestellar and Protostellar Cores.</i> ” Talk.
2015	Astronomy Undergraduate Poster Session, University of Michigan, Ann Arbor, MI. “ <i>A Survey of HCN Abundance in Hot Cores.</i> ” Poster.
2014	REU Summer Symposium, University of Michigan, Ann Arbor, MI. “ <i>Modeling Titan’s Exosphere Using the Direct Simulation Monte Carlo Method.</i> ” Talk.

Observing Experience

2021	Apache Point Observatory 3.5m Telescope
2018-20	Las Cumbres Observatory (LCOGT)
2018	Astronomy Research Consortium Small Aperture Telescope (ARCSAT)
2015	MDM Observatory

Service & Outreach

2021	CU Boulder APS Graduate Admissions Committee
2017-20	Public outreach at the Somers-Bausch Observatory
2017-20	Mentor and research advisor for a local high school student