

Jack Lubin

Curriculum Vitae

Contact Information

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Jack Lubin
University of California, Irvine
Department of Physics & Astronomy
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EDUCATION

Bachelors of Arts, Physics and Applied Mathematics [2016]
Vanderbilt University

Masters of Science, Physics [2020]
University of California, Irvine

Ph.D. Physics Expected ~2024
University of California, Irvine

APPOINTMENTS

Ph.D. Candidate September 2018 - Present
University of California, Irvine

Outdoor Services Summer 2018
Billy Caspar Golf

Associate Data Engineer June 2016 - September 2017
Capital One Financial

Physics tutor September 2015 - June 2016
Vanderbilt, Athletics Department

Research Experience for Undergraduates (REU) Summer 2015
Vanderbilt, Dept. of Physics and Astronomy

Outdoor Services Summer 2014
Billy Caspar Golf

TEACHING EXPERIENCE

Teaching Assistant

September 2018 - Present

Department of Physics and Astronomy, UCI

- Phys 52C, Fundamentals of Experimental Physics Lab, Statistics Spring 2021
- Phys 138, Galactic Astrophysics (online, 2nd time) Winter 2021
- Phys 20A, Introduction to Astronomy (online, 2nd time) Winter 2021
- Phys 7C, Classical Physics: Kinematics, Energy, and Gravity (online) Spring 2020
- Phys 138, Galactic Astrophysics Winter 2020
- Phys 18, How Things Work Winter 2020
- Phys 20A, Introduction to Astronomy Fall 2019
- Phys 51A, Modern Physics Spring 2019
- Phys 7D, Classical Physics: Electricity and Magnetism Winter 2019
- Phys 52A, Fundamentals of Experimental Physics Lab, Waves Theory Fall 2018

HONORS, AWARDS & MEMBERSHIPS

- Highest Honors in Astronomy* – For successful defense of undergrad honors thesis 2016
- Larry Ross Cathey Award* – For best undergrad honors thesis in astronomy 2016
- Sigma Pi Sigma* – Member 2016

PRESENTATIONS

“My Research in Exoplanets”, UCI Undergraduate Astronomy Club, Talk. Virtual, February 3, 2021.

“TKS V: HD191939 Hosts a 5 Planet System”, American Astronomical Society (AAS) 237th Meeting Oral Session 117, Talk. Virtual, January 11, 2021.

Teaching Assistant Professional Development Training, Panel Member. Virtual, November 5, 2020

The Search for M-M Eclipsing Binaries, Vanderbilt University Science Fair, Poster. September 17, 2015.

COMMUNITY OUTREACH

Science Olympiad Test Writer, Orange County Regional. Authored, proctored, and scored the *Astronomy B* and *Astronomy C* tests for local 5th and 6th graders. Hosted at UCI, February 15, 2020.

PRESS COVERAGE

“Astronomers use new technology developed with help from UC Irvine professor to look for habitable planets”, LA Times, March 11, 2019

PUBLICATIONS

First Author

A Bright Short Period M-M Eclipsing Binary from the KELT Survey: Magnetic Activity and the Mass-Radius Relationship for M-dwarfs
<https://arxiv.org/abs/1706.02401>. June 7, 2017.

N Author

The TESS-Keck Survey IV: A Retrograde, Polar Orbit for the Ultra-Low-Density, Hot Super-Neptune WASP-107b
<https://arxiv.org/abs/2101.09371> January 22, 2021

The TESS-Keck Survey II: An Ultra-Short Period Rocky Planet and its Siblings Transiting the Galactic Thick-Disk Star TOI-561
<https://arxiv.org/abs/2009.03071> September 7, 2020

TKS III: A Stellar Obliquity Measurement of TOI-1726 c
<https://arxiv.org/abs/2008.12397> August 27, 2020

A warm Jupiter transiting an M dwarf: A TESS single transit event confirmed with the Habitable-zone Planet Finder
<https://arxiv.org/abs/2007.07098> June 14, 2020

Persistent starspot signals on M dwarfs: multi-wavelength Doppler observations with the Habitable-zone Planet Finder and Keck/HIRES
<https://arxiv.org/abs/2005.09657> May 19, 2020

The multi-planet system TOI-421 – A warm Neptune and a super puffy mini-Neptune transiting a G9 V star in a visual binary

<https://arxiv.org/abs/2004.10095> April 21, 2020

TOI-1235 b: a keystone super-Earth for testing radius valley emergence models around early M dwarfs

<https://arxiv.org/abs/2004.06682> April 14, 2020

The TESS-Keck Survey I: A Warm Sub-Saturn-mass Planet and a Caution about Stray Light in TESS Cameras

<https://arxiv.org/abs/2003.10451> March 23, 2020