

Jack Lubin

Curriculum Vitae

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Jack Lubin
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Department of Physics & Astronomy
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EDUCATION

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|--|----------------|
| <i>Ph.D. Physics</i> | Expected ~2024 |
| University of California, Irvine | |
| <i>Masters of Science, Physics</i> | 2020 |
| University of California, Irvine | |
| <i>Bachelors of Arts, Physics and Applied Mathematics</i> | 2016 |
| Vanderbilt University | |

APPOINTMENTS

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|---|----------------------------|
| 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, Wave 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

“TKS IX: HD 191939 Hosts a Multi-Planet System”, Emerging Researchers in Exoplanet Science (ERES) 2021, Talk. Virtual, May 24, 2021.

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

“TKS V: HD 191939 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 Nix Idea Of Super-Earth Around Barnard's Star", Forbes, May 18, 2021
<https://www.forbes.com/sites/brucedorminey/2021/05/18/astronomers-nix-idea-of-super-earth-around-barnards-star/?sh=7f57afca842a>

"A very stealthy alias: the impostor planet of Barnard's star", HPF Blog, May 17, 2021
<https://hpf.psu.edu/2021/05/17/barnard/>

"Astronomers use new technology developed with help from UC Irvine professor to look for habitable planets", LA Times, March 11, 2019
<https://www.latimes.com/socal/daily-pilot/news/tn-dpt-me-hpfuci-20190311-story.html>

PUBLICATIONS

First Author

Stellar Activity Manifesting at a One Year Alias Explains Barnard b as a False Positive
<https://arxiv.org/abs/2105.07005>. May 18, 2021.

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

TKS X: Confirmation of TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes
<https://arxiv.org/abs/2105.08844> May 20, 2021

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