

NICHOLAS M. LAW
CURRICULUM VITAE & PUBLICATION LIST
Revised: March 2021

Department of Physics and Astronomy
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Education, professional experience and honors

Education	University of Cambridge Ph.D. in Astronomy Thesis: Lucky Imaging: Diffraction-limited Astronomy from the Ground in the Visible. Advisor: Craig Mackay	Oct 2003 – Jun 2006	
	University of Cambridge Bachelor of Arts in Physics and Master of Science in Physics	Oct 1999 – May 2003	
Professional experience	University of North Carolina at Chapel Hill Department of Physics and Astronomy Associate Professor	Jul 2019+	
	University of North Carolina at Chapel Hill Department of Physics and Astronomy Assistant Professor	Jan 2014 – Jun 2019	
	University of North Carolina at Chapel Hill Department of Physics and Astronomy Visiting Assistant Professor	Sep 2013 – Jan 2014	
	University of Toronto Dunlap Institute Dunlap Postdoctoral Fellow	Sep 2009 – Sep 2013	
	California Institute of Technology Department of Astronomy Postdoctoral Scholar in Astronomy	July 2006 – Sep 2009	
Honors	NSF CAREER award	Jan 2016	
	Scialog Fellow	Nov 2015+	
	Dunlap Postdoctoral Fellowship	Aug 2009	
	UK Particle Physics and Astronomy Research Council Studentship	Aug 2003	
	University of Cambridge: Selwyn Corfield Scholarship	May 2003	
	University of Cambridge: Selwyn Prize for Physics, Tripos Prize & Selwyn Scholar	May 2003	
Honors awarded to members of my group	Jeff Ratzloff	UNC Dean's Distinguished Dissertation Award NSF Graduate Fellowship honorable mention	Apr 2020 Apr 2016
	Carl Ziegler	Toronto Dunlap Postdoctoral Fellowship	Jul 2018+
	Hank Corbett	NSF Graduate Fellowship	2017-2020

Grants

Major external grant awards while at UNC	PI for "The Deep Sky Every Minute: Developing the Argus Array" <i>NSF Mid-scale Instrumentation Program NSF-MSIP-2034381; \$937k</i>	Sep. 2020 – Sep. 2023
	PI for "Fast Transients, Superflares and Exoplanet Habitability: Exploring the Minute-Cadence Sky with the Evryscope Fast Transient Engine" <i>NSF Astronomy AAG-2009645; \$606k.</i>	Sep. 2020 – Sep. 2023
	PI for CAREER award "Evryscope Science: Realizing the Potential of the first full-sky gigapixel-scale telescope" <i>NSF Astronomy CAREER AST-155175; \$914k</i>	Jan 2016 – Dec 2020
	PI for "The Robo-AO survey of Kepler exoplanet hosts" <i>NASA Exoplanet Research Program NNX15AC91G; \$437k</i> <i>Subcontracts to C. Baranec (Univ. Hawaii) & T. Morton (Princeton)</i>	Jan 2015 – Dec 2017
	PI for "The Evryscope: the first full-sky gigapixel-scale telescope" <i>NSF Astronomy Advanced Technologies and Instrumentation AST-1407589; \$463k</i>	Jul 2014 – Jul 2016
Observational and smaller external project grants while at UNC	Institutional PI for "The Origin and Impact of Flares in the Closest Planetary System Proxima Centauri" NASA HST-GO-15651.008-A; \$57k , in collaboration with M. MacGregor (Carnegie)	May 2019 – May 2020
	co-I for "A Southern Hemisphere RV Follow-up Program for TESS"; NASA Exoplanet Research Program 80NSSC19K0290; total award \$417k, UNC share \$28k	May 2019 – May 2020
	co-PI for "Quickening Heartbeats: Measuring Tidal Orbital Decay in Eccentric Young Binaries". <i>Heising-Simons Foundation/ Scialog, \$110k, in collaboration with K. Kratter (University of Arizona) and J. Fuller (Caltech)</i>	Sep 2018 – Aug 2019
	co-PI for "Enhanced Gravitational Wave Search via Simultaneous Advanced LIGO/Virgo and Evryscope Detection" (collab. with University of Florida) <i>NSF Physics Gravitational Physics Program; PHY-1806625; \$40k</i>	Aug 2018 – July 2019
	co-PI for "Linking the Evryscope with the AAVSO" <i>Scialog award #23822; \$100k, in collaboration w. J. Sokoloski (Columbia Univ)</i>	Jan 2016 – Dec. 2017
	co-PI for "Monitoring Extrasolar Space Weather with LWA and the Evryscope" <i>Scialog award #23782; \$100k, in collaboration w. G. Hallinan (Caltech)</i>	Jan 2016 – Dec. 2017
Collaboration funding	Co-PI for the Northern Evryscope, a collaboration between San Diego State University (SDSU) and UNC. SDSU share: \$256k ; UNC provides in-kind contributions and an externally-funded \$50k hardware contribution.	Feb 2017 – Feb 2020

Students and Teaching

Courses Taught	Fall 2020: ASTR519 & ASTR719, UNC Chapel Hill (7 students)
	Fall 2019: ASTR 502 [Research-intensive astronomy], UNC Chapel Hill (2 students)
	Spring 2019: ASTR 502 [Research-intensive astronomy], UNC Chapel Hill (12 students)
	Fall 2018: ASTR 202 [Introduction to Astrophysics], UNC Chapel Hill (22 students)
	Fall 2017: ASTR 519 & ASTR 719 [Observational Data Analysis], UNC Chapel Hill (6 students).
	Spring 2017: ASTR 519 & ASTR 719 [Observational Data Analysis], UNC-CH (15 students).
	Spring 2016: ASTR 101 [Introductory Astronomy], UNC Chapel Hill (168 students).
	Fall 2015: ASTR 519 & ASTR 719 [Observational Data Analysis], UNC Chapel Hill (22 students).
	Spring 2015: ASTR 101 [Introductory Astronomy], UNC Chapel Hill (245 students).
	Fall 2014: ASTR 519 & ASTR 719 [Observational Data Analysis], UNC Chapel Hill (9 students).
Spring 2014: ASTR 101 [Introductory Astronomy], UNC Chapel Hill (182 students).	
Courses Developed	ASTR 519 & 719 (new design of existing course, from scratch)
	ASTR 502: Astronomy in the era of big data (CURE high-impact-experience course; \$16k of competitive UNC funding)
	Co-led the re-design of the UNC Astronomy Graduate Curriculum (co-lead: Sheila Kannappan)

Current graduate students	Ward Howard (5th year) Hank Corbett (5th year) Amy Glazier (4th year) Alan Vasquez-Soto (3rd year) Ramses Gonzalez (3rd year) Nathan Galliher (3rd year) Lawrence Machia (1st year)
Graduated students	Dec 2015: Phillip Wulfsken, Masters, "The Evryscope: Construction and Data Analysis Techniques" May 2018: Carl Ziegler, Ph.D. "Characterization of Exoplanets and Stellar Systems with New Robots" May 2020: Jeffrey Ratzloff, Ph.D. "Building and Designing the Evryscopes and Fast Transit Survey Results"
Postdoctoral Scholar Mentorship	2014-2017: Octavi Fors (moved to a position at ICCUB, University of Barcelona)
Undergraduate research projects	2017-18: Erin Goeke (PHY295; Evryscope machine learning, paid undergraduate researcher) Aaron Pietraallo (PHY395; Evryscope stellar activity search) 2017: Erin Conn (PHY395; Evryscope solar-type-star planet search) Mark Tierney (PHY395; Robo-AO nearby-star survey) 2016: Sheridan Green (PHY 395; 2nd-gen Evryscope cameras) 2015: Drew Smith (PHY-395; finding exoplanets in PTF-SNe data) Sarah Roberts (CAP-REU; systematics removal in Arctic-camera data) Ward Howard (incoming grad student; LGS-AO without a tip/tilt guide star) Hark Corbett (parallel Evryscope image calibration) 2014: Bjorn Pederson (PHYS482L: Arctic sky brightness and cloud cover) Julie Wellons (PHYS482L: stellar populations in the PTF/M-dwarfs survey) Jeff Ratzloff (incoming grad student; Evryscope mechanical design) Dustin Kavanaugh (independent study: Evryscope camera placement)

Professional Talks

Professional talks	58. Exploring the sky every minute with the Evryscopes (invited colloquium cancelled by COVID-19) <i>University of Toronto, Toronto, ON, Canada, March 2020</i>
all invited talks and selected contributed talks listed	57. Exploring the sky every minute with the Evryscopes (invited colloquium) <i>San Diego State University, San Diego, CA, February 2020</i>
	56. The Evryscopes: observing the entire sky at high cadence <i>SPIE Astronomical Telescopes and Instrumentation, Austin, TX, Jun 2018</i>
	55. UNC's Evryscopes: Watchful Eyes on the Entire Sky (invited talk) <i>UNC Board of Trustees, Chapel Hill, NC, Mar 2018</i>
	54. Evryscope and CAREER Science and Education (invited talk) <i>NSF Fellows Symposium, Washington D.C., Jan 2018</i>
	53. Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium) <i>University of Maryland, Department of Astronomy, College Park, MD, Nov 2017</i>
	52. Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium) <i>North Carolina State University, Department of Physics, Raleigh, NC, Nov 2017</i>
	51. Evryscope-North: SDSU and UNC monitoring the sky together (invited colloquium) <i>San Diego State University, Department of Astronomy, San Diego, CA, Oct 2017</i>
	50. Optical and Infrared Telescope Basics (invited talk) <i>University of Toronto, Dunlap Summer School, Toronto, ON, Canada, Jul 2017</i>
	49. Robots Exploring the Habitable Sky: Robo-AO and Evryscope (invited seminar) <i>Institute for Advanced Study, Princeton University, Princeton, NJ, Jun 2017</i>
	48. Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium) <i>Argonne National Laboratory, Physics Division, Argonne, IL, May 2017</i>
	47. Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium) <i>Wake Forest University, Department of Physics, Winston-Salem, NC, Mar 2017</i>
	46. Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium) <i>University of Notre Dame, Department of Physics, Notre Dame, IN, Nov 2016</i>
	45. AAVSO and Evryscope: professional / amateur collaborations (invited talk) <i>Scialog Time-Domain Fellows workshop, Austin, TX, Nov 2016</i>
	44. Stellar flares and planetary habitability with the Evryscope & LWA (invited talk) <i>Scialog Time-Domain Fellows workshop, Austin, TX, Oct 2016</i>
	43. Building the Evryscope high-cadence survey of the whole sky (invited talk) <i>SRK@60 workshop: Compact, Cataclysmic and Catastrophic, Temecula, CA, Sep 2016</i>

**Professional
talks
(cont.)**

42. SRAO: the first southern robotic AO system
SPIE Astronomical Telescopes and Instrumentation, Edinburgh, Scotland, Jun 2016
41. The Evryscope: design and performance of the first full-sky gigapixel-scale telescope
SPIE Astronomical Telescopes and Instrumentation, Edinburgh, Scotland, Jun 2016
40. Following-up TESS Exoplanets with Robo-AO (invited talk)
TESS Science Team Meeting, MIT, Cambridge, MA, May 2015
39. Evryscope: the first gigapixel-scale all-sky telescope (invited talk)
Caltech Small Telescope Sky Surveys Workshop, Pasadena, CA, Aug 2015
38. Monitoring the entire Antarctic sky, all the time (invited talk)
Scientific Committee on Antarctic Research Workshop, Volcano, HI, Aug 2015
37. Laser-AO imaging of every Kepler Planet Candidate
IAU General Assembly, Honolulu, HI, Aug 2015
36. The Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium)
Las Cumbres Global Observatory, Santa Barbara, CA, Apr 2015
35. The Evryscope: the first gigapixel-scale all-sky telescope
American Astronomical Society Winter Conference, Seattle, WA, Jan 2015
34. The Evryscope: the first gigapixel-scale all-sky telescope (invited colloquium)
Caltech Astronomy Department, Pasadena, CA, Oct 2014
33. 12,000 Adaptive Optics observations: Robo-AO science
SPIE Astronomical Telescopes and Instrumentation, Montreal, QC, Canada, Jun 2014
32. Results from the first exoplanet survey at the North Pole
SPIE Astronomical Telescopes and Instrumentation, Montreal, QC, Canada Jun 2014
31. The Evryscope: the first gigapixel-scale all-sky telescope
SPIE Astronomical Telescopes and Instrumentation, Montreal, QC, Canada, Jun 2014
30. Robots with Lasers and an Arctic Adventure (invited colloquium)
University of Washington Astronomy Dept., Seattle, WA, May 2013
29. Detecting Exoplanets with a New Generation of Sky Surveys (invited colloquium)
UNC Chapel Hill Department of Physics & Astronomy, Chapel Hill, NC, Feb 2013
28. Detecting Exoplanets with a New Generation of Sky Surveys (invited colloquium)
University of Toronto Department of Astronomy, Toronto, ON, Canada, Feb 2013
27. Detecting Exoplanets with a New Generation of Sky Surveys (invited colloquium)
University of Hawaii Institute of Astronomy, Honolulu, HI, Feb 2013
26. High-speed astronomy (invited colloquium)
U. Hawaii Institute of Astronomy Hilo, Hilo, HI, Feb 2013
25. Cool Stars, Cool Planets, and Arctic Astronomy (invited colloquium)
Dalhousie University, Halifax, NS, Canada Oct 2012
24. Finding Exoplanets in the High Canadian Arctic (invited colloquium)
York University, Toronto, ON, Canada, Mar 2012
23. Cool Planets, Cool Stars, and Frigid Astronomy (invited colloquium)
University of British Columbia., Vancouver, BC, Canada, Mar 2012
22. Cool Planets, Cool Stars, and Frigid Astronomy (invited colloquium)
Columbia University, New York, NY, Feb 2012
21. Astronomy in the Canadian Arctic (invited colloquium)
University of Waterloo, Waterloo, ON, Canada, Feb 2012
20. Low-mass-star surveys with PTF (invited talk)
American Astronomical Society conference time-domain splinter, Boston, MA, Jun 2011
19. A new planet-finding telescope in the Canadian Arctic
Canadian Astronomical Society, Calgary, AB, Canada, 2011
18. PTF survey status, spring 2011 (keynote talk)
Palomar Transient Factory workshop, Santa Barbara, CA, Apr 2011
17. PTF/M-dwarfs: searching for planets around 100,000 M-dwarfs
Palomar Transient Factory workshop, Santa Barbara, CA, Apr 2011
16. The PTF search for planets around M-dwarfs (invited colloquium)
University of Toronto Department of Astronomy, Toronto, ON, Canada, Feb 2011
15. Searching for planets around 100,000 M-dwarfs
American Astronomical Society Winter Conference, Seattle, WA, Jan 2011
14. Cool stars with new AO and wide field instruments (invited colloquium)
Rochester Institute of Technology, Rochester, NY, Feb 2010
13. PTF survey status, fall 2010 (keynote presentation)
Palomar Transient Factory workshop, Santa Barbara, CA, Oct 2010
12. PTF/M-dwarfs: searching for planets around 100,000 M-dwarfs
Palomar Transient Factory workshop, Santa Barbara, CA, Oct 2011
11. Cool and Ultracool dwarfs with the Palomar Transient Factory
Cool Stars 16 binaries workshop, Barcelona, Spain, Jul 2010
10. Robo-AO: Robotic LGS-AO on the Palomar 60-inch in 2011 (invited colloquium)
Caltech Astronomy Department, Pasadena, CA, May 2010

Professional talks (cont.)

9. PTF survey status, spring 2010 (keynote)
Palomar Transient Factory workshop, Santa Barbara, CA, Jun 2010
8. Cool things around cool stars (invited colloquium)
University of Toronto Astronomy Dept., Toronto, ON, Canada, May 2009
7. PTF: the survey is operational (invited talk)
Palomar Observatory Science Meeting, Pasadena, CA, Feb 2009
6. A Robotic Laser Guide Star Adaptive Optics System
SPIE Astronomical Telescopes and Instrumentation, Marseilles, France, Jun 2008
5. LAMP: Lucky Imaging, Aperture Masking and Polarization at Palomar (invited seminar)
JPL, Pasadena, CA, Nov 2007
4. LAMP: Lucky Imaging, Adaptive Optics, Aperture Masking and Polarization at Palomar
Palomar Observatory Science Meeting, May 2007
3. Lucky Imaging: Hubble-Resolution Imaging in the Visible from the Ground (invited seminar)
Caltech Astronomy Dept., Pasadena, CA, May 2006
2. Lucky Imaging: Hubble-Resolution Imaging in the Visible from the Ground (invited seminar)
National Optical Astronomical Observatories, Tucson, Arizona, May 2006
1. Lucky Imaging: Hubble-Resolution Imaging in the Visible from the Ground
UK National Astronomy Meeting, Milton Keynes, UK, Jun 2005

Professional Service and Outreach**UNC Dept. Of Physics Committees**

- Precandidacy Advising (2019-20)
- Astronomy graduate curriculum redevelopment (co-chair) 2019-20
- Graduate Affairs (2018-19)
- Graduate Admissions (2014-18)
- Graduate Recruiting (2014-18)
- Faculty Search Committee (2016/17 & 2017/18)
- Colloquium Committee (2016)

External Professional service

- SOAR Science Advisory Council (2014+)
- UNC AURA Representative (2020+)
- SRK@60 workshop instrumentation session chair (2016)
- NSF grant panel reviewer (multiple panels over the last 5 years)
- NSF grant external reviewer
- NASA grant review panel member
- Referee for the Astrophysical Journal (ApJ), the Astronomical Journal (AJ), Monthly Notices of the Royal Astronomical Society (MNRAS) and Publications of the Astronomical Society of the Pacific (PASP)
- Referee for BSF (US-Israel Binational Science Foundation) grants
- Referee for CANTAC (Canadian Gemini time allocation committee)

Media Coverage Evryscope (PI):

- Evryscope discovery of a superflare from Proxima Centauri covered in Forbes, Popular Mechanics, New Scientist, El Pais, space.com, Ars Technica, and a variety of other outlets worldwide.
- Popular Mechanics named the Evryscope as #2 of 50 technological innovations in their “Year of Good Things 2015” issue.
- Evryscope featured in a variety of other publications including MIT Technology Review, Sky & Telescope, Science (full-page feature article), Science News, etc.
- Developing an NSF-funded planetarium exhibit for Evryscope data (NSF funded; in collaboration with Morehead Planetarium)

SOAR-AO (PI) & Robo-AO (Project Scientist):

- Robo-AO & ongoing adaptive optics programs were featured in a Nature News & Views article
- SOAR-AO plans were covered in the Daily Tar Heel and other local outlets.

The first telescope near the North Pole (PI):

- profiled in the Montreal Gazette and several other newspapers

PTF (Project Scientist):

- featured in a wide variety of national and international media, for discoveries ranging from a star falling into a supermassive black hole, to a new class of superluminous supernovae.

LAMP Lucky+AO instrument at Palomar (PI):

- One of Time Magazine's Best Inventions of 2007.
- The project was also covered in Nature, New Scientist, Discover, Slashdot, etc., as well as producing an ApJ paper and six SPIE papers.

Recent Public Talks

Celebrating the 2019 Physics Nobel Prize, Chapel Hill, NC	Nov 2019
UNC Physics "Science is Awesome" elementary-school visit, UNC Chapel Hill, NC	May 2018
Astronomy on Tap, Durham, NC	Mar 2018
Chapel Hill Astronomy Club, Chapel Hill, NC	May 2016
Asheville Astronomy Club, Asheville, NC	May 2016
Morehead Teen Science Cafe, Chapel Hill, NC	April 2016
Raleigh Astronomy Club, Raleigh, NC	Nov 2015
UNC Humanities program: a North Pole Adventure, Chapel Hill, NC	Sep. 2014
UNC SHAPE program: a North Pole Adventure, Chapel Hill, NC	May 2014

Publication List

160 refereed papers. 8,500 total citations, 1,400 citations to 1st-author papers, H-index 49.

Papers led by members of my group are listed in bold.

Referred papers

160. [Orbital Foregrounds for Ultra-short Duration Transients](#)

Corbett, H., Law, N.M., Soto, A.V., Howard, W.S., Glazier, A., Gonzalez, R., Ratzloff, J.K., Galliher, N., Fors, O., and Quimby, R.
2020, The Astrophysical Journal Letters volume 903 issue 2 pg. L27, 7 pages

159. [EvryFlare. III. Temperature Evolution and Habitability Impacts of Dozens of Superflares Observed Simultaneously by Evryscope and TESS](#)

Howard, W.S., Corbett, H., Law, N.M., Ratzloff, J.K., Galliher, N., Glazier, A.L., Gonzalez, R., Vasquez Soto, A., Fors, O., del Ser, D., and 1 colleagues
2020, The Astrophysical Journal volume 902 issue 2 pg. 115, 14 pages

158. [A hot mini-Neptune in the radius valley orbiting solar analogue HD 110113](#)

Osborn, H.P., Armstrong, D.J., Adibekyan, V., Collins, K.A., Delgado-Mena, E., Howell, S.B., Hellier, C., King, G.W., Lillo-Box, J., Nielsen, L.D., and 46 colleagues
 2021, Monthly Notices of the Royal Astronomical Society volume 502 issue 4 pg. 4842-4857, 16 pages

157. [TOI-257b \(HD 19916b\): a warm sub-saturn orbiting an evolved F-type star](#)

Addison, B.C., Wright, D.J., Nicholson, B.A., Cale, B., Mocnik, T., Huber, D., Plavchan, P., Wittenmyer, R.A., Vanderburg, A., Chaplin, W.J., and 84 colleagues
 2021, Monthly Notices of the Royal Astronomical Society volume 502 issue 3 pg. 3704-3722, 19 pages

156. [TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images](#)

Rodriguez, J.E., Quinn, S.N., Zhou, G., Vanderburg, A., Nielsen, L.D., Wittenmyer, R.A., Brahm, R., Reed, P.A., Huang, C.X., Vach, S., and 108 colleagues
 2021, The Astronomical Journal volume 161 issue 4 pg. 194, 25 pages

155. [Evryscope-South Survey of Upper- and Pre-main Sequence Solar Neighborhood Stars](#)

Galliher, N.W., Ratzloff, J.K., Corbett, H., Law, N.M., Howard, W.S., Glazier, A.L., Vasquez Soto, A., and Gonzalez, R.
2020, Publications of the Astronomical Society of the Pacific volume 132 issue 1017 pg. 114202, 17 pages

154. [Revisiting the HD 21749 planetary system with stellar activity modelling](#)

Gan, T., Wang, S.X., Teske, J.K., Mao, S., Howard, W.S., Law, N.M., Batalha, N.E., Vanderburg, A., Dragomir, D., Huang, C.X., and 19 colleagues
 2021, Monthly Notices of the Royal Astronomical Society volume 501 issue 4 pg. 6042-6061, 20 pages

153. [TOI-811b and TOI-852b: New Transiting Brown Dwarfs with Similar Masses and Very Different Radii and Ages from the TESS Mission](#)

Carmichael, T.W., Quinn, S.N., Zhou, G., Grieves, N., Irwin, J.M., Stassun, K.G., Vanderburg, A.M., Winn, J.N., Bouchy, F., Brasseur, C.E., and 23 colleagues
 2021, The Astronomical Journal volume 161 issue 2 pg. 97, 17 pages

152. [TESS Discovery of a Super-Earth and Three Sub-Neptunes Hosted by the Bright, Sun-like Star HD 108236](#)

Refereed papers (cont.)

- Daylan, T., Pínglé, K., Wright, J., Günther, M.N., Stassun, K.G., Kane, S.R., Vanderburg, A., Jontof-Hutter, D., Rodriguez, J.E., Shporer, A., and 52 colleagues
2021, *The Astronomical Journal* volume 161 issue 2 pg. 85, 21 pages
151. [TESS Hunt for Young and Maturing Exoplanets \(THYME\). IV. Three Small Planets Orbiting a 120 Myr Old Star in the Pisces-Eridanus Stream](#)
Newton, E.R., Mann, A.W., Kraus, A.L., Livingston, J.H., Vanderburg, A., Curtis, J.L., Thao, P.C., Hawkins, K., Wood, M.L., Rizzuto, A.C., and 43 colleagues
2021, *The Astronomical Journal* volume 161 issue 2 pg. 65, 20 pages
150. [The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Galactic Thick-disk Star TOI-561](#)
Weiss, L.M., Dai, F., Huber, D., Brewer, J.M., Collins, K.A., Ciardi, D.R., Matthews, E.C., Ziegler, C., Howell, S.B., Batalha, N.M., and 54 colleagues
2021, *The Astronomical Journal* volume 161 issue 2 pg. 56, 19 pages
149. [From core collapse to superluminous: the rates of massive stellar explosions from the Palomar Transient Factory](#)
Frohmaier, C., Angus, C.R., Vincenzi, M., Sullivan, M., Smith, M., Nugent, P.E., Cenko, S.B., Gal-Yam, A., Kulkarni, S.R., Law, N.M., and 1 colleagues
2021, *Monthly Notices of the Royal Astronomical Society* volume 500 issue 4 pg. 5142-5158, 17 pages
148. [TOI 540 b: A Planet Smaller than Earth Orbiting a Nearby Rapidly Rotating Low-mass Star](#)
Ment, K., Irwin, J., Charbonneau, D., Winters, J.G., Medina, A., Cloutier, R., Díaz, M.R., Jenkins, J.S., Ziegler, C., Law, N., and 13 colleagues
2021, *The Astronomical Journal* volume 161 issue 1 pg. 23, 12 pages
147. [TOI 122b and TOI 237b: Two Small Warm Planets Orbiting Inactive M Dwarfs Found by TESS](#)
Waalkes, W.C., Berta-Thompson, Z.K., Collins, K.A., Feinstein, A.D., Tofflemire, B.M., Rojas-Ayala, B., Silverstein, M.L., Newton, E., Ricker, G.R., Vanderspek, R., and 32 colleagues
2021, *The Astronomical Journal* volume 161 issue 1 pg. 13, 17 pages
146. [Two Young Planetary Systems around Field Stars with Ages between 20 and 320 Myr from TESS](#)
Zhou, G., Quinn, S.N., Irwin, J., Huang, C.X., Collins, K.A., Bouma, L.G., Khan, L., Landrigan, A., Vanderburg, A.M., Rodriguez, J.E., and 39 colleagues
2021, *The Astronomical Journal* volume 161 issue 1 pg. 2, 21 pages
145. [When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147](#)
Curtis, J.L., Agüeros, M.A., Matt, S.P., Covey, K.R., Douglas, S.T., Angus, R., Saar, S.H., Cody, A.M., Vanderburg, A., Law, N.M., and 10 colleagues
2020, *The Astrophysical Journal* volume 904 issue 2 pg. 140, 40 pages
144. [Cluster Difference Imaging Photometric Survey. II. TOI 837: A Young Validated Planet in IC 2602](#)
Bouma, L.G., Hartman, J.D., Brahm, R., Evans, P., Collins, K.A., Zhou, G., Sarkis, P., Quinn, S.N., de Leon, J., Livingston, J., and 35 colleagues
2020, *The Astronomical Journal* volume 160 issue 5 pg. 239, 20 pages
143. [TOI 564 b and TOI 905 b: Grazing and Fully Transiting Hot Jupiters Discovered by TESS](#)
Davis, A.B., Wang, S., Jones, M., Eastman, J.D., Günther, M.N., Stassun, K.G., Addison, B.C., Collins, K.A., Quinn, S.N., Latham, D.W., and 47 colleagues
2020, *The Astronomical Journal* volume 160 issue 5 pg. 229, 17 pages
142. [EVR-CB-004: An Inflated Hot Subdwarf O Star + Unseen WD Companion in a Compact Binary Discovered with the Evryscope](#)
Ratzloff, J.K., Kupfer, T., Barlow, B.N., Schneider, D., Marsh, T.R., Heber, U., Corcoran, K.A., Bauer, E., Hämmerich, S., Corbett, H.T., and 3 colleagues
2020, *The Astrophysical Journal* volume 902 issue 2 pg. 92, 18 pages
141. [The CARMENES search for exoplanets around M dwarfs. Two planets on opposite sides of the radius gap transiting the nearby M dwarf LTT 3780](#)
Nowak, G., Luque, R., Parviainen, H., Pallé, E., Molaverdikhani, K., Béjar, V.J.S., Lillo-Box, J., Rodríguez-López, C., Caballero, J.A., Zechmeister, M., and 90 colleagues
2020, *Astronomy and Astrophysics* volume 642 issue pg. A173, 21 pages
140. [An ultrahot Neptune in the Neptune desert](#)
Jenkins, J.S., Díaz, M.R., Kurtovic, N.T., Espinoza, N., Vines, J.I., Rojas, P.A.P., Brahm, R., Torres, P., Cortés-Zuleta, P., Soto, M.G., and 74 colleagues
2020, *Nature Astronomy*

**Refereed
papers (cont.)**

139. [Evryscope and K2 Constraints on TRAPPIST-1 Superflare Occurrence and Planetary Habitability](#)

Glazier, A.L., Howard, W.S., Corbett, H., Law, N.M., Ratzloff, J.K., Fors, O., and del Ser, D.

2020, *The Astrophysical Journal* volume 900 issue 1 pg. 27, pages

138. [TOI 694b and TIC 220568520b: Two Low-mass Companions near the Hydrogen-burning Mass Limit Orbiting Sun-like Stars](#)

Mireles, I., Shporer, A., Grieves, N., Zhou, G., Günther, M.N., Brahm, R., Ziegler, C., Stassun, K.G., Huang, C.X., Nielsen, L., and 33 colleagues

2020, *The Astronomical Journal* volume 160 issue 3 pg. 133, pages

137. [The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System](#)

Gilbert, E.A., Barclay, T., Schlieder, J.E., Quintana, E.V., Hord, B.J., Kostov, V.B., Lopez, E.D., Rowe, J.F., Hoffman, K., Walkowicz, L.M., and 85 colleagues

2020, *The Astronomical Journal* volume 160 issue 3 pg. 116, pages

136. [Multiwavelength Photometry and Progenitor Analysis of the Nova V906 Car](#)

Wee, J., Blagorodnova, N., Penprase, B.E., Facey, J.P., Morioka, T., Corbett, H., Barlow, B.N., Kupfer, T., Law, N.M., Ratzloff, J.K., and 5 colleagues

2020, *The Astrophysical Journal* volume 899 issue 2 pg. 162, pages

135. [TESS Reveals a Short-period Sub-Neptune Sibling \(HD 86226c\) to a Known Long-period Giant Planet](#)

Teske, J., Díaz, M.R., Luque, R., Močnik, T., Seidel, J.V., Otegi, J.F., Feng, F., Jenkins, J.S., Pallè, E., Ségransan, D., and 37 colleagues

2020, *The Astronomical Journal* volume 160 issue 2 pg. 96, pages

134. [TIC 278956474: Two Close Binaries in One Young Quadruple System Identified by TESS](#)

Rowden, P., Borkovits, T., Jenkins, J.M., Stassun, K.G., Twicken, J.D., Newton, E.R., Ziegler, C., Hellier, C., Soto, A.G., Matthews, E.C., and 18 colleagues

2020, *The Astronomical Journal* volume 160 issue 2 pg. 76, pages

133. [A remnant planetary core in the hot-Neptune desert](#)

Armstrong, D.J., Lopez, T.A., Adibekyan, V., Booth, R.A., Bryant, E.M., Collins, K.A., Deleuil, M., Emsenhuber, A., Huang, C.X., King, G.W., and 85 colleagues

2020, *Nature* volume 583 issue 7814 pg. 39-42, 4 pages

132. [Two Intermediate-mass Transiting Brown Dwarfs from the TESS Mission](#)

Carmichael, T.W., Quinn, S.N., Mustill, A.J., Huang, C., Zhou, G., Persson, C.M., Nielsen, L.D., Collins, K.A., Ziegler, C., Collins, K.I., and 21 colleagues

2020, *The Astronomical Journal* volume 160 issue 1 pg. 53, pages

131. [TESS Hunt for Young and Maturing Exoplanets \(THYME\). II. A 17 Myr Old Transiting Hot Jupiter in the Sco-Cen Association](#)

Rizzuto, A.C., Newton, E.R., Mann, A.W., Tofflemire, B.M., Vanderburg, A., Kraus, A.L., Wood, M.L., Quinn, S.N., Zhou, G., Thao, P.C., and 3 colleagues

2020, *The Astronomical Journal* volume 160 issue 1 pg. 33, 14 pages

130. [A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780](#)

Cloutier, R., Eastman, J.D., Rodriguez, J.E., Astudillo-Defru, N., Bonfils, X., Mortier, A., Watson, C.A., Stalport, M., Pinamonti, M., Lienhard, F., and 77 colleagues

2020, *The Astronomical Journal* volume 160 issue 1 pg. 3, 21 pages

129. [Three short-period Jupiters from TESS. HIP 65Ab, TOI-157b, and TOI-169b](#)

Nielsen, L.D., Brahm, R., Bouchy, F., Espinoza, N., Turner, O., Rappaport, S., Pearce, L., Ricker, G., Vanderspek, R., Latham, D.W., and 67 colleagues

2020, *Astronomy and Astrophysics* volume 639 issue pg. A76, 17 pages

128. [EvrYFlare. II. Rotation Periods of the Cool Flare Stars in TESS across Half the Southern Sky](#)

Howard, W.S., Corbett, H., Law, N.M., Ratzloff, J.K., Gallihier, N., Glazier, A., Fors, O., del Ser, D., and Haislip, J.

2020, *The Astrophysical Journal* volume 895 issue 2 pg. 140, 16 pages

127. [TOI-1338: TESS' First Transiting Circumbinary Planet](#)

Kostov, V.B., Orosz, J.A., Feinstein, A.D., Welsh, W.F., Cukier, W., Haghighipour, N., Quarles, B., Martin, D.V., Montet, B.T., Torres, G., and 58 colleagues

2020, *The Astronomical Journal* volume 159 issue 6 pg. 253, 26 pages

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126. [Planet Hunters TESS I: TOI 813, a subgiant hosting a transiting Saturn-sized planet on an 84-day orbit](#)
Eisner, N.L., Barragán, O., Aigrain, S., Lintott, C., Miller, G., Zicher, N., Boyajian, T.S., Briceño, C., Bryant, E.M., Christiansen, J.L., and 40 colleagues
2020, Monthly Notices of the Royal Astronomical Society volume 494 issue 1 pg. 750-763, 14 pages
125. [LHS 1815b: The First Thick-disk Planet Detected by TESS](#)
Gan, T., Shporer, A., Livingston, J.H., Collins, K.A., Mao, S., Trani, A.A., Gandolfi, D., Hirano, T., Luque, R., Stassun, K.G., and 28 colleagues
2020, The Astronomical Journal volume 159 issue 4 pg. 160, 12 pages
124. [Robo-AO M-dwarf Multiplicity Survey: Catalog](#)
Lamman, C., Baranec, C., Berta-Thompson, Z.K., Law, N.M., Schonhut-Stasik, J., Ziegler, C., Salama, M., Jensen-Clem, R., Duev, D.A., Riddle, R., and 3 colleagues
2020, The Astronomical Journal volume 159 issue 4 pg. 139, 13 pages
123. [A hot terrestrial planet orbiting the bright M dwarf L 168-9 unveiled by TESS](#)
Astudillo-Defru, N., Cloutier, R., Wang, S.X., Teske, J., Brahm, R., Hellier, C., Ricker, G., Vanderspek, R., Latham, D., Seager, S., and 60 colleagues
2020, Astronomy and Astrophysics volume 636 issue pg. A58, 13 pages
122. [TOI-132 b: A short-period planet in the Neptune desert transiting a \$V = 11.3\$ G-type star](#)
Díaz, M.R., Jenkins, J.S., Gandolfi, D., Lopez, E.D., Soto, M.G., Cortés-Zuleta, P., Berdiñas, Z.M., Stassun, K.G., Collins, K.A., Vines, J.I., and 42 colleagues
2020, Monthly Notices of the Royal Astronomical Society volume 493 issue 1 pg. 973-985, 13 pages
121. [TOI-222: a single-transit TESS candidate revealed to be a 34-d eclipsing binary with CORALIE, EulerCam, and NGTS](#)
Lendl, M., Bouchy, F., Gill, S., Nielsen, L.D., Turner, O., Stassun, K., Acton, J.S., Anderson, D.R., Armstrong, D.J., Bayliss, D., and 51 colleagues
2020, Monthly Notices of the Royal Astronomical Society volume 492 issue 2 pg. 1761-1769, 9 pages
120. [Hot Subdwarf All Southern Sky Fast Transit Survey with the Evryscope](#)
Ratzloff, J.K., Barlow, B.N., Németh, P., Corbett, H.T., Walsler, S., Galliher, N.W., Glazier, A., Howard, W.S., and Law, N.M.
2020, The Astrophysical Journal volume 890 issue 2 pg. 126, 26 pages
119. [An ultrahot Neptune in the Neptune desert](#)
Jenkins, J.S., Díaz, M.R., Kurtovic, N.T., Espinoza, N., Vines, J.I., Rojas, P.A.P., Brahm, R., Torres, P., Cortés-Zuleta, P., Soto, M.G., and 74 colleagues
2020, Nature Astronomy volume 4 issue pg. 1148-1157, 10 pages
118. [HD 213885b: a transiting 1-d-period super-Earth with an Earth-like composition around a bright \(\$V = 7.9\$ \) star unveiled by TESS](#)
Espinoza, N., Brahm, R., Henning, T., Jordán, A., Dorn, C., Rojas, F., Sarkis, P., Kossakowski, D., Schlecker, M., Díaz, M.R., and 53 colleagues
2020, Monthly Notices of the Royal Astronomical Society volume 491 issue 2 pg. 2982-2999, 18 pages
117. [Robotilter: an automated lens/CCD alignment system for the Evryscope](#)
Ratzloff, J.K., Law, N.M., Corbett, H.T., Fors, O., and del Ser, D.
2020, Journal of Astronomical Telescopes, Instruments, and Systems volume 6 issue pg. 018002, pages
116. [ROBO-AO Kepler Asteroseismic Survey. II. Do Stellar Companions Inhibit Stellar Oscillations?](#)
Schonhut-Stasik, J., Huber, D., Baranec, C., Lamman, C., Salama, M., Jensen-Clem, R., Duev, D.A., Riddle, R., Kulkarni, S.R., and Law, N.M.
2020, The Astrophysical Journal volume 888 issue 1 pg. 34, 14 pages
115. [SOAR TESS Survey. I. Sculpting of TESS Planetary Systems by Stellar Companions](#)
Ziegler, C., Tokovinin, A., Briceño, C., Mang, J., Law, N., and Mann, A.W.
2020, The Astronomical Journal volume 159 issue 1 pg. 19, 24 pages
114. [Near-resonance in a System of Sub-Neptunes from TESS](#)
Quinn, S.N., Becker, J.C., Rodriguez, J.E., Hadden, S., Huang, C.X., Morton, T.D., Adams, F.C., Armstrong, D., Eastman, J.D., Horner, J., and 71 colleagues
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113. [EVR-CB-001: An Evolving, Progenitor, White Dwarf Compact Binary Discovered with the Evryscope](#)

Ratzloff, J.K., Barlow, B.N., Kupfer, T., Corcoran, K.A., Geier, S., Bauer, E., Corbett, H.T., Howard, W.S., Glazier, A., and Law, N.M.

2019, *The Astrophysical Journal* volume 883 issue 1 pg. 51, 12 pages

112. [Variables in the Southern Polar Region Evryscope 2016 Data Set](#)

Ratzloff, J.K., Corbett, H.T., Law, N.M., Barlow, B.N., Glazier, A., Howard, W.S., Fors, O., del Ser, D., and Trifonov, T.

2019, *Publications of the Astronomical Society of the Pacific* volume 131 issue 1002 pg. 084201

111. [TESS Spots a Compact System of Super-Earths around the Naked-eye Star HR 858](#)

Vanderburg, A., Huang, C.X., Rodriguez, J.E., Becker, J.C., Ricker, G.R., Vanderspek, R.K., Latham, D.W., Seager, S., Winn, J.N., Jenkins, J.M., and 41 colleagues

2019, *The Astrophysical Journal* volume 881 issue 1 pg. L19, 11 pages

110. [EvryFlare. I. Long-term Evryscope Monitoring of Flares from the Cool Stars across Half the Southern Sky](#)

Howard, W.S., Corbett, H., Law, N.M., Ratzloff, J.K., Glazier, A., Fors, O., del Ser, D., and Haislip, J.

2019, *The Astrophysical Journal* volume 881 issue 1 pg. 9, 17 pages

109. [A Hot Saturn Near \(but Unassociated with\) the Open Cluster NGC 1817](#)

Rampalli, R., Vanderburg, A., Bieryla, A., Latham, D.W., Quinn, S.N., Baranec, C., Berlind, P., Calkins, M.L., Cochran, W.D., Duev, D.A., and 7 colleagues

2019, *The Astronomical Journal* volume 158 issue 2 pg. 62, 8 pages

108. [Building the Evryscope: Hardware Design and Performance](#)

Ratzloff, J.K., Law, N.M., Fors, O., Corbett, H.T., Howard, W.S., del Ser, D., and Haislip, J.

2019, *Publications of the Astronomical Society of the Pacific* volume 131 issue 1001 pg. 075001

107. [The Elusive Majority of Young Moving Groups. I. Young Binaries and Lithium-rich Stars in the Solar Neighborhood](#)

Bowler, B.P., Hinkley, S., Ziegler, C., Baranec, C., Gizis, J.E., Law, N.M., Liu, M.C., Shah, V.S., Shkolnik, E.L., Riaz, B., and 1 colleagues

2019, *The Astrophysical Journal* volume 877 issue 1 pg. 60, 30 pages

106. [An Eccentric Massive Jupiter Orbiting a Subgiant on a 9.5-day Period Discovered in the Transiting Exoplanet Survey Satellite Full Frame Images](#)

Rodriguez, J.E., Quinn, S.N., Huang, C.X., Vanderburg, A., Penev, K., Brahm, R., Jordán, A., Ikwut-Ukwa, M., Tsirulik, S., Latham, D.W., and 64 colleagues

2019, *The Astronomical Journal* volume 157 issue 5 pg. 191, 13 pages

105. [HD 2685 b: a hot Jupiter orbiting an early F-type star detected by TESS](#)

Jones, M.I., Brahm, R., Espinoza, N., Wang, S., Shporer, A., Henning, T., Jordán, A., Sarkis, P., Paredes, L.A., Hodari-Sadiki, J., and 43 colleagues

2019, *Astronomy and Astrophysics* volume 625 issue pg. A16, 9 pages

104. [Investigating the origin of the spectral line profiles of the Hot Wolf-Rayet Star WR 2](#)

Chené, A.-N., St-Louis, N., Moffat, A.F.J., Schnurr, O., Crowther, P.A., Wade, G.A., Richardson, N.D., Baranec, C., Ziegler, C.A., Law, N.M., and 5 colleagues

2019, *Monthly Notices of the Royal Astronomical Society* volume 484 issue 4 pg. 5834-5844, 11 pages

103. [Bright Opportunities for Atmospheric Characterization of Small Planets: Masses and Radii of K2-3 b, c, and d and GJ3470 b from Radial Velocity Measurements and Spitzer Transits](#)

Kosiarek, M.R., Crossfield, I.J.M., Hardegree-Ullman, K.K., Livingston, J.H., Benneke, B., Henry, G.W., Howard, W.S., Berardo, D., Blunt, S., Fulton, B.J., and 29 colleagues

2019, *The Astronomical Journal* volume 157 issue 3 pg. 97, 13 pages

102. [Measuring the Recoverability of Close Binaries in Gaia DR2 with the Robo-AO Kepler Survey](#)

Ziegler, C., Law, N.M., Baranec, C., Morton, T., Riddle, R., De Lee, N., Huber, D., Mahadevan, S., and Pepper, J.

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101. [Follow-up Imaging of Disk Candidates from the Disk Detective Citizen Science Project: New Discoveries and False Positives in WISE Circumstellar Disk Surveys](#)
Silverberg, S.M., Kuchner, M.J., Wisniewski, J.P., Bans, A.S., Debes, J.H., Kenyon, S.J., Baranec, C., Riddle, R., Law, N., Teske, J.K., and 10 colleagues
2018, *The Astrophysical Journal* volume 868 issue 1 pg. 43, 15 pages
100. [Young and Eccentric: The Quadruple System HD 86588](#)
Tokovinin, A., Corbett, H., Fors, O., Howard, W., Law, N.M., Moe, M., Ratzloff, J., and Walter, F.M.
2018, *The Astronomical Journal* volume 156 issue 3 pg. 120, 8 pages
- 99. [Robo-AO Kepler Survey. V. The Effect of Physically Associated Stellar Companions on Planetary Systems](#)**
Ziegler, C., Law, N.M., Baranec, C., Howard, W., Morton, T., Riddle, R., Duev, D.A., Salama, M., Jensen-Clem, R., and Kulkarni, S.R.
2018, *The Astronomical Journal* volume 156 issue 2 pg. 83, 19 pages
98. [A New Look at an Old Cluster: The Membership, Rotation, and Magnetic Activity of Low-mass Stars in the 1.3 Gyr Old Open Cluster NGC 752](#)
Agüeros, M.A., Bowsher, E.C., Bochanski, J.J., Cargile, P.A., Covey, K.R., Douglas, S.T., Kraus, A., Kundert, A., Law, N.M., Ahmadi, A., and 1 colleagues
2018, *The Astrophysical Journal* volume 862 issue 1 pg. 33, 19 pages
- 97. [The First Naked-eye Superflare Detected from Proxima Centauri](#)**
Howard, W.S., Tilley, M.A., Corbett, H., Youngblood, A., Loyd, R.O.P., Ratzloff, J.K., Law, N.M., Fors, O., del Ser, D., Shkolnik, E.L., and 4 colleagues
2018, *The Astrophysical Journal Letters* volume 860 issue 2 pg. L30, 6 pages
96. [K2-140b - an eccentric 6.57 d transiting hot Jupiter in Virgo](#)
Giles, H.A.C., Bayliss, D., Espinoza, N., Brahm, R., Blanco-Cuaresma, S., Shporer, A., Armstrong, D., Lovis, C., Udry, S., Bouchy, F., and 18 colleagues
2018, *Monthly Notices of the Royal Astronomical Society* volume 475 issue 2 pg. 1809-1818, 10 pages
- 95. [Robo-AO Kepler Survey. IV. The Effect of Nearby Stars on 3857 Planetary Candidate Systems](#)**
Ziegler, C., Law, N.M., Baranec, C., Riddle, R., Duev, D.A., Howard, W., Jensen-Clem, R., Kulkarni, S.R., Morton, T., and Salama, M.
2018, *The Astronomical Journal* volume 155 issue 4 pg. 161, 15 pages
- 94. [Laser-only Adaptive Optics Achieves Significant Image Quality Gains Compared to Seeing-limited Observations over the Entire Sky](#)**
Howard, W.S., Law, N.M., Ziegler, C.A., Baranec, C., and Riddle, R.
2018, *The Astronomical Journal* volume 155 issue 2 pg. 59, 7 pages
93. [Robo-AO Discovery and Basic Characterization of Wide Multiple Star Systems in the Pleiades, Praesepe, and NGC 2264 Clusters](#)
Hillenbrand, L.A., Zhang, C., Riddle, R.L., Baranec, C., Ziegler, C., Law, N.M., and Stauffer, J.
2018, *The Astronomical Journal* volume 155 issue 2 pg. 51, 15 pages
92. [The Performance of the Robo-AO Laser Guide Star Adaptive Optics System at the Kitt Peak 2.1 m Telescope](#)
Jensen-Clem, R., Duev, D.A., Riddle, R., Salama, M., Baranec, C., Law, N.M., Kulkarni, S.R., and Ramprakash, A.N.
2018, *The Astronomical Journal* volume 155 issue 1 pg. 32, 12 pages
91. [Neptune long-lived atmospheric features in 2013-2015 from small \(28-cm\) to large \(10-m\) telescopes](#)
Hueso, R., de Pater, I., Simon, A., Sánchez-Lavega, A., Delcroix, M., Wong, M.H., Tollefson, J.W., Baranec, C., de Kleer, K., Luszcz-Cook, S.H., and 25 colleagues
2017, *Icarus* volume 295 issue pg. 89-109, 21 pages
90. [Robo-AO Kepler Asteroseismic Survey. I. Adaptive Optics Imaging of 99 Asteroseismic Kepler Dwarfs and Subgiants](#)
Schönhut-Stasik, J.S., Baranec, C., Huber, D., Ziegler, C., Atkinson, D., Gaidos, E., Law, N.M., Riddle, R., Hagelberg, J., van der Marel, N., and 1 colleagues
2017, *The Astrophysical Journal* volume 847 issue 2 pg. 97, 11 pages
89. [Magnetic Inflation and Stellar Mass. I. Revised Parameters for the Component Stars of the Kepler Low-mass Eclipsing Binary T-Cyg1-12664](#)
Han, E., Muirhead, P.S., Swift, J.J., Baranec, C., Law, N.M., Riddle, R., Atkinson, D., Mace, G.N., and DeFelippis, D.
2017, *The Astronomical Journal* volume 154 issue 3 pg. 100, 14 pages

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88. [The Factory and the Beehive. III. PTFEB132.707+19.810, A Low-mass Eclipsing Binary in Praesepe Observed by PTF and K2](#)
Kraus, A.L., Douglas, S.T., Mann, A.W., Agüeros, M.A., Law, N.M., Covey, K.R., Feiden, G.A., Rizzuto, A.C., Howard, A.W., Isaacson, H., and 3 colleagues
2017, The Astrophysical Journal volume 845 issue 1 pg. 72, 24 pages
87. [Ultra-short-period Planets in K2 with Companions: A Double Transiting System for EPIC 220674823](#)
Adams, E.R., Jackson, B., Endl, M., Cochran, W.D., MacQueen, P.J., Duev, D.A., Jensen-Clem, R., Salama, M., Ziegler, C., Baranec, C., and 3 colleagues
2017, The Astronomical Journal volume 153 issue 2 pg. 82, 7 pages
86. [Robo-AO Kepler Planetary Candidate Survey. III. Adaptive Optics Imaging of 1629 Kepler Exoplanet Candidate Host Stars](#)
Ziegler, C., Law, N.M., Morton, T., Baranec, C., Riddle, R., Atkinson, D., Baker, A., Roberts, S., and Ciardi, D.R.
2017, The Astronomical Journal volume 153 issue 2 pg. 66, 26 pages
85. [Probability of the Physical Association of 104 Blended Companions to Kepler Objects of Interest Using Visible and Near-infrared Adaptive Optics Photometry](#)
Atkinson, D., Baranec, C., Ziegler, C., Law, N., Riddle, R., and Morton, T.
2017, The Astronomical Journal volume 153 issue 1 pg. 25, 17 pages
84. [197 Candidates and 104 Validated Planets in K2's First Five Fields](#)
Crossfield, I.J.M., Ciardi, D.R., Petigura, E.A., Sinukoff, E., Schlieder, J.E., Howard, A.W., Beichman, C.A., Isaacson, H., Dressing, C.D., Christiansen, J.L., and 34 colleagues
2016, The Astrophysical Journal Supplement Series volume 226 issue 1 pg. 7, 20 pages
83. [Two Small Planets Transiting HD 3167](#)
Vanderburg, A., Bieryla, A., Duev, D.A., Jensen-Clem, R., Latham, D.W., Mayo, A.W., Baranec, C., Berlind, P., Kulkarni, S., Law, N.M., and 3 colleagues
2016, The Astrophysical Journal volume 829 issue 1 pg. L9, 6 pages
82. [Five Planets Transiting a Ninth Magnitude Star](#)
Vanderburg, A., Becker, J.C., Kristiansen, M.H., Bieryla, A., Duev, D.A., Jensen-Clem, R., Morton, T.D., Latham, D.W., Adams, F.C., Baranec, C., and 8 colleagues
2016, The Astrophysical Journal volume 827 issue 1 pg. L10, 11 pages
81. [Eleven Multiplanet Systems from K2 Campaigns 1 and 2 and the Masses of Two Hot Super-Earths](#)
Sinukoff, E., Howard, A.W., Petigura, E.A., Schlieder, J.E., Crossfield, I.J.M., Ciardi, D.R., Fulton, B.J., Isaacson, H., Aller, K.M., Baranec, C., and 7 colleagues
2016, The Astrophysical Journal volume 827 issue 1 pg. 78, 27 pages
80. [Robo-AO Kepler Planetary Candidate Survey. II. Adaptive Optics Imaging of 969 Kepler Exoplanet Candidate Host Stars](#)
Baranec, C., Ziegler, C., Law, N.M., Morton, T., Riddle, R., Atkinson, D., Schonhut, J., and Crepp, J.
2016, The Astronomical Journal volume 152 issue 1 pg. 18, 16 pages
79. [Why Are Rapidly Rotating M Dwarfs in the Pleiades so \(Infra\)red? New Period Measurements Confirm Rotation-dependent Color Offsets From the Cluster Sequence](#)
Covey, K.R., Agüeros, M.A., Law, N.M., Liu, J., Ahmadi, A., Laher, R., Levitan, D., Sesar, B., and Surace, J.
2016, The Astrophysical Journal volume 822 issue 2 pg. 81, 26 pages
78. [Two Small Temperate Planets Transiting Nearby M Dwarfs in K2 Campaigns 0 and 1](#)
Schlieder, J.E., Crossfield, I.J.M., Petigura, E.A., Howard, A.W., Aller, K.M., Sinukoff, E., Isaacson, H.T., Fulton, B.J., Ciardi, D.R., Bonnetfoy, M., and 14 colleagues
2016, The Astrophysical Journal volume 818 issue 1 pg. 87, 15 pages
77. [Planet Hunters. VIII. Characterization of 41 Long-period Exoplanet Candidates from Kepler Archival Data](#)
Wang, J., Fischer, D.A., Barclay, T., Picard, A., Ma, B., Bowler, B.P., Schmitt, J.R., Boyajian, T.S., Jek, K.J., LaCourse, D., and 23 colleagues
2015, The Astrophysical Journal volume 815 issue 2 pg. 127, 20 pages
76. [HIP 2407: An Eclipsing Binary Revealed By K2 Observations of the Pleiades](#)
David, T.J., Stauffer, J., Hillenbrand, L.A., Cody, A.M., Conroy, K., Stassun, K.G., Pope, B., Aigrain, S., Gillen, E., Collier Cameron, A., and 9 colleagues
2015, The Astrophysical Journal volume 814 issue 1 pg. 62, 8 pages

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75. [KELT-8b: A Highly Inflated Transiting Hot Jupiter and a New Technique for Extracting High-precision Radial Velocities from Noisy Spectra](#)
Fulton, B.J., Collins, K.A., Gaudi, B.S., Stassun, K.G., Pepper, J., Beatty, T.G., Siverd, R.J., Penev, K., Howard, A.W., Baranec, C., and 22 colleagues
2015, *The Astrophysical Journal* volume 810 issue 1 pg. 30, 14 pages
74. [High-speed Imaging and Wavefront Sensing with an Infrared Avalanche Photodiode Array](#)
Baranec, C., Atkinson, D., Riddle, R., Hall, D., Jacobson, S., Law, N.M., and Chun, M.
2015, *The Astrophysical Journal* volume 809 issue 1 pg. 70, 6 pages
73. [Planets Around Low-mass Stars \(PALMS\). V. Age-dating Low-mass Companions to Members and Interlopers of Young Moving Groups](#)
Bowler, B.P., Shkolnik, E.L., Liu, M.C., Schlieder, J.E., Mann, A.W., Dupuy, T.J., Hinkley, S., Crepp, J.R., Johnson, J.A., Howard, A.W., and 15 colleagues
2015, *The Astrophysical Journal* volume 806 issue 1 pg. 62, 36 pages
72. [Multiplicity of the Galactic Senior Citizens: A High-resolution Search for Cool Subdwarf Companions](#)
Ziegler, C., Law, N.M., Baranec, C., Riddle, R.L., and Fuchs, J.T.
2015, *The Astrophysical Journal* volume 804 issue 1 pg. 30, 14 pages
71. [Know the Star, Know the Planet. IV. A Stellar Companion to the Host Star of the Eccentric Exoplanet HD 8673b](#)
Roberts, L.C., Mason, B.D., Neyman, C.R., Wu, Y., Riddle, R.L., Shelton, J.C., Angione, J., Baranec, C., Bouchez, A., Bui, K., and 22 colleagues
2015, *The Astronomical Journal* volume 149 issue 4 pg. 144, 6 pages
70. [Know the Star, Know the Planet. III. Discovery of Late-Type Companions to Two Exoplanet Host Stars](#)
Roberts, L.C., Tokovinin, A., Mason, B.D., Riddle, R.L., Hartkopf, W.I., Law, N.M., and Baranec, C.
2015, *The Astronomical Journal* volume 149 issue 4 pg. 118, 7 pages
69. [Evrscope Science: Exploring the Potential of All-Sky Gigapixel-Scale Telescopes](#)
Law, N.M., Fors, O., Ratzloff, J., Wulfken, P., Kavanaugh, D., Sitar, D.J., Pruett, Z., Birchard, M.N., Barlow, B.N., Cannon, K., and 4 colleagues
2015, *Publications of the Astronomical Society of the Pacific* volume 127 issue 949 pg. 234, pages
68. [Characterizing the Cool KOIs. VII. Refined Physical Properties of the Transiting Brown Dwarf LHS 6343 C](#)
Montet, B.T., Johnson, J.A., Muirhead, P.S., Villar, A., Vassallo, C., Baranec, C., Law, N.M., Riddle, R., Marcy, G.W., Howard, A.W., and 1 colleagues
2015, *The Astrophysical Journal* volume 800 issue 2 pg. 134, 11 pages
67. [Characterizing K2 Planet Discoveries: A Super-Earth Transiting the Bright K Dwarf HIP 116454](#)
Vanderburg, A., Montet, B.T., Johnson, J.A., Buchhave, L.A., Zeng, L., Pepe, F., Collier Cameron, A., Latham, D.W., Molinari, E., Udry, S., and 36 colleagues
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65. [A Survey of the High Order Multiplicity of Nearby Solar-type Binary Stars with Robo-AO](#)
Riddle, R.L., Tokovinin, A., Mason, B.D., Hartkopf, W.I., Roberts, L.C., Baranec, C., Law, N.M., Bui, K., Burse, M.P., Das, H.K., and 5 colleagues
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