

Andrew Vanderburg

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Appointments

Assistant Professor of Physics at the Massachusetts Institute of Technology	July 2021 - present
Assistant Professor of Astronomy at The University of Wisconsin-Madison	August 2020 - August 2021
Research Associate at the Smithsonian Astrophysical Observatory	September 2017 - present
NASA Sagan Postdoctoral Fellow at The University of Texas at Austin	September 2017 - August 2020
Postdoctoral Associate at Harvard University	July 2017 - September 2017

Education

Harvard University

Ph.D. Astronomy and Astrophysics (2017)

A.M. Astronomy and Astrophysics (2015)

University of California, Berkeley

B.A. Physics and Astrophysics (2013)

Cambridge, MA

August 2013 - May 2017

Berkeley, CA

August 2009 - May 2013

Research Interests

- Searching for and studying small planets orbiting other stars
- Determining detailed physical properties of terrestrial planets
- Learning about the origins and evolution of planetary systems
- Testing theories of planetary migration by studying the architecture of planetary systems
- Measuring the prevalence of planets in different galactic environments
- Developing and using new data analysis techniques in astronomy, including machine learning and deep learning.

Awards

- 2022 Harvard Bok Prize Lecture
- 2021 Wisconsin Undergraduate Research Scholars Exceptional Mentorship Award
- 2020 Scialog Fellow
- 2018 NASA Exceptional Public Achievement Medal
- 2017 NASA Sagan Fellow
- 2016 *Publications of the Astronomical Society of the Pacific* Outstanding Reviewer Award
- 2015 K2 Science Conference Student Researcher Award
- 2013 National Science Foundation Graduate Research Fellow
- 2013 Harvard Astronomy James Mills Peirce Fellow
- 2013 UC Berkeley Astronomy Department Dorothea Klumpke Roberts Prize
- 2013 UC Berkeley Physics Department Citation Award
- 2013 American Astronomy Society Chambliss Astronomy Achievement Student Award
- 2012 Barry Goldwater Scholar
- 2012 Caltech Summer Undergraduate Research Fellow
- 2009 National Merit Scholar

Publication Summary

Refereed/under review publications: 257 total, 17 first author (two in *Nature*), 34 second author

A full listing of publications is available at the end of this document.

Total Citations to Refereed Publications: 8403 total, 1474 for first author papers

Unrefereed Publications: 8 total, 1 as first author

Invited Review Chapters: 1 total, 1 as first author

Successful/Awarded Grants

- PI of the TESS Guest Investigator Cycle 5 award: “Disintegrating Rocky Bodies Transiting White Dwarfs: The Key to Understanding Exoplanet Compositions”
Total budget: \$70,000.
- PI of the NASA Extreme Precision Radial Velocity Foundation Science award: “Removing Stellar Activity Signals from Radial Velocity Measurements Using Machine Learning ”
Total budget: \$219,928.
- PI of the TESS Guest Investigator Cycle 4 award: “Disintegrating Rocky Bodies Transiting White Dwarfs: The Key to Understanding Exoplanet Compositions”
Total budget: \$67,000.
- PI of the Astrophysics Data Analysis Program award: “Completing Kepler’s Census: Using Deep Neural Networks to Measure the Frequency of Earth Analogs”
Total budget: \$475,010.
- PI of the TESS Guest Investigator Cycle 3 award: “Disintegrating Rocky Bodies Transiting White Dwarfs: The Key to Understanding Exoplanet Compositions”
Total budget: \$45,000.
- PI of the TESS Guest Investigator Cycle 2 award: “Disintegrating Rocky Bodies Transiting White Dwarfs: The Key to Understanding Exoplanet Compositions”
Total budget: \$43,000.
- PI of the K2 Guest Observer Cycle 6 award: “Solidifying K2’s Legacy: Short-Cadence Characterization of K2’s Benchmark Planetary Systems”
Total budget: \$30,000. (admin PI: Adam Kraus)
- PI of the TESS Guest Investigator Cycle 1 award: “Disintegrating Rocky Bodies Transiting White Dwarfs: The Key to Understanding Exoplanet Compositions”
Total budget: \$37,000. (admin PI: Adam Kraus)
- PI of the Sagan Fellowship award: “The Galactic Distribution of Exoplanets”
Total budget: \$341,550. (admin PI: Adam Kraus)

Teaching and Advising

Classroom Experience

- Instructor for Physics 8.901 at MIT, Spring 2023. This course, called “Astrophysics I” covers the astrophysics of objects smaller than galaxies at the graduate student level.
- Recitation Instructor for Physics 8.03 at MIT, Spring 2022 and Fall 2023. This course, called “Waves and Vibrations” is a part of the introductory sequence for physics majors.
- Instructor for Astronomy/Geoscience 160 at the University of Wisconsin-Madison, Spring 2021. This course, called “Life in the Universe” is aimed at non-science majors and discusses the necessary conditions and search for life on other planets.
- Instructor for Astronomy 236 at the University of Wisconsin-Madison, Fall 2020. This course, called “History of Matter in the Universe” is aimed at non-astronomy majors and satisfies a university-wide communications requirement.
- Co-designed and co-taught a “Hands on Session” at the 2018 Sagan Summer Workshop in Pasadena, CA. The session was designed to teach beginning graduate students how to use the **vespa** software package to calculate the false positive probability of transiting candidate exoplanets and guide them through independent “group projects” to apply their skills. AV led the design of the group projects.
- Guest Lecturer for The University of Texas at Austin Astronomy 381 (Planetary Astrophysics) and Astronomy 364P (Planetary Systems), Fall 2017. Instructor: Adam Kraus.
- Teaching Fellow for Harvard Astronomy 218 (Graduate level radio astronomy), Fall 2015. Instructor: Lincoln Greenhill.

- Teaching Fellow for Harvard Astronomy 16 (Undergraduate level stellar and planetary astronomy), Spring 2015. Instructor: John Johnson.
- Lead instructor for UC Berkeley Electrical Engineering/Computer Science 98/198 (Pioneers in Engineering Robotics Mentorship), Spring 2013. Instructor of record: Pieter Abbeel.

Advising

Graduate Students

- Javier Viaña (MIT), September 2022-present.
- Melinda Soares-Furtado (Hubble Fellow, University of Wisconsin-Madison): March 2021-present.

Graduate Students

- Zoe de Beurs (MIT): June 2022-present, primarily advised by AV.
- Sydney Jenkins (MIT): January 2022-present, primarily advised by AV.
- Mariona Badenas-Agusti (MIT): August 2021-present, primarily advised by AV.
- Lizhou Sha (University of Wisconsin-Madison): August 2020-present, primarily advised by AV.
- Robert Aloisi (University of Wisconsin-Madison): August 2020-present, primarily advised by AV.
- Liang Yu (Massachusetts Institute of Technology): June 2018-May 2019. AV was the primary advisor of the final chapter of her thesis, and Ian Crossfield was her primary thesis advisor. Liang has published a paper (as first author) on this work.

Undergraduate Students

- Mason Fang (MIT): September 2022-present, primarily advised by Javier Viaña.
- Warit Wijitworasart (MIT): September 2021-present, primarily advised by AV.
- Panupong Phoompuang (MIT): September 2021-May 2021, primarily advised by AV.
- Sam Christian (MIT): September 2021-present, primarily advised by AV.
- Ben Capistrant (University of Wisconsin-Madison): May 2021-present, primarily advised by Melinda Soares-Furtado, officially advised by AV.
- Sarah Kubiak (University of Wisconsin-Madison): December 2020-present, primarily advised by AV.
- Drake Lehmann (University of Wisconsin-Madison): October 2020-present, primarily advised by AV.
- Elyse Incha (University of Wisconsin-Madison): August 2020-present, primarily advised by AV.
- Ben Steck (University of Wisconsin-Madison): August 2020-May 2021, primarily advised by AV.
- Ben Havlicek (University of Wisconsin-Madison): August 2020-December 2020, primarily advised by AV.
- Maura Lally (Northwestern University): June 2019-present, primarily advised by AV. Maura has submitted a paper (as first author) describing the results of her work.
- Zoe de Beurs (University of Texas at Austin): September 2018-July 2022, primarily advised by AV. Zoe has submitted a paper (as first author) describing the results of her work.
- Aditya Shah (University of Texas at Austin): August 2018-May 2019, primarily advised by AV.
- Gerlinder Difo Cheri (University of the Virgin Islands). June-August 2018. Summer TAURUS internship, primarily advised by AV.
- Anne Dattilo (University of Texas at Austin): Dec 2017-August 2019, primarily advised by AV. Anne has published a paper (as first author) describing the results of her work.

- Rayna Rampalli (Wellesley College): June 2017-May 2019. Summer internship (primarily advised by AV) and senior thesis (advised by D. Latham, assisted by AV). Rayna has published a paper (as first author) describing some of the results from her senior thesis.
- Clea Schumer (Harvard College): October 2016-August 2017. Primarily advised by AV.
- Andrew Mayo (Harvard College): April 2014-August 2017. Advised by AV during semesters, a summer internship (2015, official advisor J. Johnson), and senior thesis (2016-2017, primary advisor AV, official advisor D. Latham). Andrew Mayo is first author on a paper describing his senior thesis and co-author on six other papers resulting from his project.

High School Students

- Gabrielle Ross (Brearly School, New York, NY): June 2022-present, primarily advised by AV.
- Sam Christian (Liberal Arts and Science Academy, Austin, TX): June 2020-August 2021: primarily advised by AV.
- Alex Reichenbach (Phillips Andover Academy, Andover, MA): August 2017-December 2017: External advisor for Andover Physics 530 (senior level astronomy research course).
- Andrew Wang (Phillips Andover Academy, Andover, MA): August 2017-December 2017: External advisor for Andover Physics 530 (senior level astronomy research course).
- Joshua Marsh (Tully State High School, Tully, Queensland, Australia): July 2017-August 2017: MIT Research Science Institute intern (primarily advised by R. Di Stefano, assisted by AV).
- Josh Kelle (Leander High School, Leander, TX): June 2011-August 2011: Applied Research Laboratory at UT Austin, Science & Engineering Apprenticeship (primarily advised by F. Stefani, assisted by AV).
- Michael Kloc (Westlake High School, Austin, TX): Applied Research Laboratory at UT Austin, Science & Engineering Apprenticeship (primarily advised by F. Stefani, assisted by AV).
- Eliseo Treviño (Akins High School, Austin, TX): Applied Research Laboratory at UT Austin, Science & Engineering Apprenticeship (primarily advised by F. Stefani, assisted by AV).

Service

Professional Service

- Referee for *Nature*, *the Astrophysical Journal*, *the Astrophysical Journal Letters*, *the Astronomical Journal*, *Monthly Notices of the Royal Astronomical Society*, *Nature Astronomy*, *Astronomy and Astrophysics*, *Publications of the Astronomical Society of the Pacific*, *Astronomy and Computing*, *Advances in Space Research*, *New Astronomy*, *the Open Journal of Astrophysics* and *Publications of the Astronomical Society of Australia* (2015-present).
- Co-organizer of “Exoplanet Systems and Stellar Life Cycles: Late-Stage and Post-MS Systems” conference (2023)
- Steering committee member for the NASA Extreme Precision Radial Velocity Research Coordination Network (2021-present)
- Steering committee member for the NASA Nexus for Exoplanet System Science (NExSS) (2020-present)
- Panelist for NASA Review of Rapid Release of TESS Data Products (2021).
- Review Panelist for NASA Keck proposals (2020-2021).
- Panelist for the Hubble Space Telescope Cycle 27, 28, and 29 proposal review (2019-2021).
- External expert reviewer for OPTICON (European) and TAP (Chinese) telescope proposals (2018-present).
- Reviewer for NASA Future Investigators in NASA Earth and Space Science and Technology (FINESST) (2019-2020).

- Reviewer for NASA Earth and Space Science Fellowship (NESSF) proposals (2018).
- Review Panelist for NASA Tabletop Review of K2 mission data products (2017).
- Reviewer for NASA K2 Mission DDT Proposals (2017).
- Poster competition judge for the Kepler/K2 Science Conference V (2019), the 227th AAS meeting (2016), the Kepler/K2 Science Conference IV (2017), and the Know Thy Star, Know Thy Planet Meeting (2017).
- Member of the Kepler False Positive Working Group (2017–2020) and Kepler Reliability Working Group (2017–2018)
- Member of the TESS Follow-up Working Group (2017–present) and TESS TOI Working Group (2017–present), the TESS Extended Mission Working Group (2018–2019), and the TESS Science Office (2018–present).
- Produced and publicly released processed K2 data on the K2SFF High Level Science Product hosted at STScI. With over 200,000 light curves, this is the most complete collection of public K2 light curves (2014–2020).

Department Service

- MIT astrophysics oral exam committee (2023)
- MIT Astrophysics Colloquium Chair (2022–2023)
- MIT AURA Alternate Member Representative (2021–present)
- MIT Barrett Prize Selection Committee (Spring 2022)
- MIT general exams committee (Spring 2022)
- University of Wisconsin-Madison Astronomy strategic planning committee (2020–2021).
- University of Wisconsin-Madison Astronomy WIYN telescope allocation committee (2021).
- Member/postdoc representative for the University of Texas Astronomy Research Experience for Undergraduates (REU) selection committee (2019).
- Member/postdoc representative for the University of Texas Astronomy graduate admissions committee (2018–2019).
- Founder/organizer of ExoUpdate, a weekly group meeting for exoplanet researchers in the University of Texas Astronomy department (2017–2020).
- Core group organizer of the University of Texas Pop-Up Institute for Planetary Habitability (2018).
- Mentor for incoming graduate students for the Harvard Astronomy Graduate Student Peer Mentorship Program (2016–2017).

Outreach

- Volunteer for Pioneers in Engineering robotics competition (Berkeley, CA), which promotes the involvement of underrepresented communities in science and engineering. Was a major participant from 2011–2013 while living in Berkeley, CA, and contributes at a lower level remotely from 2013–present.
- Docent at the Harvard-Smithsonian Center for Astrophysics Observatory Nights (2015–2017)
- Led outreach telescope observing with the Harvard Observing Project (2013–2017).

Employment

Space Sciences Laboratory Research Assistant	June 2013 - August 2013
Texas Research International/Center for Aeromechanics Research Research Assistant	June 2013 - August 2013
Summer Undergraduate Research Fellow at Caltech	June 2012 - August 2012
Institute for Advanced Technology Research Assistant	June 2009 - January 2012

Talks/Presentations

Invited conference talks

1. Vanderburg, Andrew “Enhancing Exoplanet Discovery with Deep Learning: Progress and Paths Forward” Dynamic Data Driven Applications Systems (DDDAS), Cambridge, MA, October 8, 2022.
2. Vanderburg, Andrew “Enhancing and Optimizing TESS’s Scientific Output using Machine Learning” IAU General Assembly Focus Meeting 10, presented remotely to Busan, Korea, August 4, 2022.
3. Vanderburg, Andrew “From Pixels to Planets: An Overview of Transiting Exoplanet Detection” PLATO Mission Conference 2021, presented remotely due to COVID-19, October 14, 2021. Watch online at <https://www.youtube.com/watch?v=LFt0URsWQdg>.
4. Vanderburg, Andrew “Machine Learning in Exoplanet Detection and Vetting” TESS Science Conference #2, presented remotely due to COVID-19, August 5, 2021. Watch online at <https://www.youtube.com/watch?v=esB3fDTnZFE>, and watch the subsequent panel discussion online at https://youtu.be/Yg6l_C-Ohp4.
5. Vanderburg, Andrew “Exoplanet Detection using Machine Learning” as part of the *Machine Learning in Astronomy: Methods, Applications & Challenges* Meeting-in-a-Meeting at the 238th American Astronomical Society Meeting, presented remotely due to COVID-19, June 8, 2021.
6. Vanderburg, Andrew “An Overview of Transiting Exoplanets” Exoplanets III Heidelberg, presented remotely due to COVID-19, July 27, 2020. Watch online at <https://www.youtube.com/watch?v=FjOJuq8UtdE>.
7. Vanderburg, Andrew “Exoplanet Discoveries from TESS’s First Year” as part of the TESS Special Session at the 235th American Astronomical Society Meeting, Honolulu, HI, January 6, 2020.
8. Vanderburg, Andrew “Benchmark Exoplanet Systems Discovered by the K2 Mission” Kepler & K2 Science Conference V, Glendale, CA, Mar. 5, 2019.
9. Vanderburg, Andrew “From Pixels to Planets: The Process of Validating Transiting Planets.” Sagan Exoplanet Summer Workshop, Pasadena, CA, July 23, 2018. Watch online at <https://www.youtube.com/watch?v=9HzLeELRgy0>.
10. Vanderburg, Andrew “The Pathway towards Characterizing Exoplanets ” University of Texas Pop-Up Institute on Planetary Habitability, Austin, TX, July 10, 2018.
11. Vanderburg, Andrew “K2’s contribution to Opportunity M” Opportunity M Conference, Cambridge, MA, August 30, 2016.
12. Vanderburg, Andrew “Searching for Planets with K2” Big Data@Tel Aviv Conference, Tel Aviv, Israel, December 14, 2015.
13. Vanderburg, Andrew et al. “HIP 116454 b: K2’s First Exoplanet” as part of the K2 special session at the 225th American Astronomical Society Meeting, Seattle, WA, January 5, 2015.

Invited seminars/colloquia

1. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Michigan State Physics & Astronomy Colloquium, East Lansing, MI, April 20, 2023.
2. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Penn State CEHW Seminar, State College, PA, January 30, 2023.
3. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Dartmouth Physics and Astronomy Colloquium, Hanover, NH, November 11, 2022.
4. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Center for Astrophysics | Harvard and Smithsonian Colloquium, Cambridge, MA, April 7, 2022. Watch online at <https://www.youtube.com/watch?v=3yL6gWFOAdw>.
5. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” University of North Carolina Physics colloquium, Chapel Hill, NC, March 21, 2022.

6. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Ohio State University Seminar, Columbus, OH, March 4, 2022.
7. Vanderburg, Andrew; Czekala, Ian; Waldmann, Ingo; Mullally, Susan. “Exoplanets and Machine Learning Debate” UC Santa Cruz Machine Learning Club, presented remotely due to COVID-19, November 3, 2021.
8. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” MIT Physics Faculty Lunch Seminar, Cambridge, MA, October 21, 2021.
9. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” MIT Planetary Lunch Seminar, Cambridge, MA, Sept 28, 2021.
10. Vanderburg, Andrew “An Overview of the K2 Mission” MIT TESS Science Talk, presented remotely due to COVID-19, July 7, 2021.
11. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Cambridge (UK) Exoplanet Centre Seminar, presented remotely due to COVID-19, May 4, 2021.
12. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Tsinghua University Astronomy Colloquium, presented remotely due to COVID-19, February 24, 2021.
13. Vanderburg, Andrew et al. “Preparing for Earth 2.0: The Detailed Properties of Terrestrial Exoplanets” MIT Astrophysics Colloquium, presented remotely due to COVID-19, February 8, 2021.
14. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Université de Montréal Astronomy division seminar, presented remotely due to COVID-19, January 21, 2021.
15. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” Caltech planetary science seminar, presented remotely due to COVID-19, November 10, 2020.
16. Vanderburg, Andrew “A Song of Ice and Fire: The fate of planetary systems after stellar death” ESA SCI-S Seminar, presented remotely due to COVID-19, November 5, 2020.
17. Vanderburg, Andrew et al. “A Giant Planet Candidate Transiting a White Dwarf” Princeton Exoplanet Lunch, presented remotely due to COVID-19, May 4, 2020
18. Vanderburg, Andrew et al. “Preparing for Earth 2.0: The Detailed Properties of Terrestrial Exoplanets” Northwestern University CIERA Seminar, Evanston, IL, Feb. 25, 2020.
19. Vanderburg, Andrew. “A Disintegrating Minor Planet Transiting a White Dwarf.” TAURUS/REU Summer Seminar series, Austin, TX, Jul. 11, 2019.
20. Vanderburg, Andrew et al. “Preparing for Earth 2.0: The Detailed Properties of Terrestrial Exoplanets” University of Wisconsin-Madison Astronomy Colloquium, Madison, WI, Feb. 21, 2019.
21. Vanderburg, Andrew et al. “Preparing for Earth 2.0: The Detailed Properties of Terrestrial Exoplanets” University of California, Los Angeles Astronomy Colloquium, Los Angeles, CA, Jan. 23, 2019.
22. Vanderburg, Andrew et al. “Preparing for Earth 2.0: Understanding the Detailed Properties of Exoplanets to Enable Future Missions to Characterize Earth Analogs” University of Michigan Astronomy Department Colloquium, Ann Arbor, MI, Nov. 1, 2018.
23. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” Carnegie Institution of Science, Department of Terrestrial Magnetism, Astro Seminar, Washington DC, Oct. 5, 2018.
24. Vanderburg, Andrew. “A Disintegrating Minor Planet Transiting a White Dwarf.” TAURUS Summer Seminar series, Austin, TX, Jul. 17, 2018.
25. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” Lowell Observatory Colloquium, Flagstaff, AZ, Mar. 8, 2018.
26. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” University of Texas at Austin Astronomy Department Colloquium, Austin, TX, Sept.19, 2017.

27. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” Harvard-Smithsonian Center for Astrophysics, Dissertation Colloquium, Cambridge, MA, May 2, 2017.
28. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” Vanderbilt University Seminar, Nashville, TN, November 4, 2016.
29. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” MIT Astrophysics Brown-Bag Lunch Seminar, Cambridge, MA, October 31, 2016.
30. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” IPAC Seminar, Pasadena, CA, October 28, 2016.
31. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” Penn State CEHW Seminar, State College, PA, October 10, 2016.
32. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” UC Santa Cruz FLASH Seminar, Santa Cruz, CA, September 23, 2016.
33. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” UC Berkeley CIPS Seminar, Berkeley, CA, September 21, 2016.
34. Vanderburg, Andrew et al. “Searching for Planets with K2” NASA Ames Research Center, Moffett Field, CA, April 21, 2016.
35. Vanderburg, Andrew et al. “Searching for Planets with K2” Space Telescope Science Institute Star and Planet Formation Seminar, Baltimore, MD, April 8, 2016.
36. Vanderburg, Andrew et al. “Searching for Planets with K2” University of Texas ISM Seminar, Austin, TX, January 29, 2016.
37. Vanderburg, Andrew et al. “Characterizing K2 Planet Discoveries” Boston University Astronomy Tuesday Lunch Talk, March 2, 2015.

Contributed conference talks

1. Vanderburg, Andrew et al. “Searching for Planetary Systems around White Dwarfs with TESS” TESS Science Conference #2, presented remotely due to COVID-19, August 4, 2021. Watch online at <https://youtu.be/2XBnFLwJagM?t=5546>.
2. Vanderburg, Andrew et al. “A Giant Planet Candidate Transiting a White Dwarf” Bay Area Exoplanet Meeting, presented remotely due to COVID-19, March 5, 2021.
3. Vanderburg, Andrew et al. “A Giant Planet Candidate Transiting a White Dwarf” Chesapeake Bay Area Exoplanet Meeting, presented remotely due to COVID-19, December 11, 2020. Watch online at <https://www.youtube.com/watch?v=r-AVje8GBdQ>.
4. Vanderburg, Andrew et al. “A Giant Planet Candidate Transiting a White Dwarf” TESS Science Team Meeting, presented remotely due to COVID-19, June 11, 2020
5. Vanderburg, Andrew et al. “A Giant Planet Candidate Transiting a White Dwarf” 236th American Astronomical Society Meeting, presented remotely due to COVID-19, June 2, 2020
6. Vanderburg, Andrew et al. “Planet Occurrence in the M67 Open Cluster” 235th American Astronomical Society Meeting, Honolulu, HI, January 5, 2020
7. Vanderburg, Andrew et al. “Planet Occurrence in the M67 Open Cluster” NASA Hubble Fellowship Program Symposium, Washington D.C., October 21, 2019
8. Vanderburg, Andrew et al. “Identifying Exoplanets with Deep Learning: New Discoveries and Progress Towards Planet Occurrence Rates in Kepler, K2, and TESS” Extreme Solar Systems VI, Reykjavik, Iceland, August 19, 2019
9. Vanderburg, Andrew et al. “Detecting Exomoons via Doppler Monitoring of Directly Imaged Exoplanets” Bay Area Exoplanets Meeting, Moffett Field, CA, March 1 2019

10. Vanderburg, Andrew et al. “Identifying Exoplanets with Deep Learning: Towards Improved Planet Occurrence Rates with Kepler, K2, and TESS” 233rd American Astronomical Society Meeting, Seattle, WA, January 9, 2019
11. Vanderburg, Andrew et al. “Early Results from the TESS Mission” Sagan/Michelson Fellows’ Symposium, Pasadena, CA, November 8, 2018
12. Vanderburg, Andrew et al. “Planet Occurrence in the M67 Open Cluster” K2 Dwarf Stars and Clusters Workshop, Boston, MA, January 16, 2018
13. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” 231st American Astronomical Society Meeting, National Harbor, MD, January 12, 2018
14. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” Bay Area Exoplanets Meeting, Moffett Field, CA, November 30 2017
15. Vanderburg, Andrew et al. “Towards Better Planet Occurrence Rates from Kepler and K2” NASA Sagan/Michelson Fellows Symposium, Pasadena, CA, November 9, 2017
16. Vanderburg, Andrew et al. “Precise Stellar Parameters are Crucial for Constraining Transiting Exoplanet Interiors” Know Thy Star, Know Thy Planet Meeting, Pasadena, CA, October 9, 2017
17. Vanderburg, Andrew et al. “HARPS-N Observations of K2 Planet Candidates and Planet Masses in the WASP-47 System” Kepler & K2 Science Conference IV, Moffett Field, CA, June 19, 2017
18. Vanderburg, Andrew et al. “Precise Masses in the WASP-47 System” 230th American Astronomical Society Meeting, Austin, TX, June 8, 2017
19. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” 229th American Astronomical Society Meeting, Grapevine, TX, January 7, 2017
20. Vanderburg, Andrew et al. “A Disintegrating Minor Planet Transiting a White Dwarf” Bay Area Exoplanets Meeting, Moffett Field, CA, September 30, 2016.
21. Vanderburg, Andrew et al. “Planetary Candidates from the First Year of the K2 Mission” 227th American Astronomical Society Meeting, Kissimmee, FL, January 5, 2016
22. Vanderburg, Andrew et al. “A Disintegrating Minor Planet Transiting a White Dwarf” K2 Science Conference, Santa Barbara, CA, November 4, 2015.
23. Vanderburg, Andrew et al. “Characterizing K2 Planet Discoveries” 225th American Astronomical Society Meeting, Seattle, WA, January 5, 2015.

Public/Outreach talks

1. Vanderburg, Andrew; Zhang, Coco. “Earth 2.0” UW-Madison Astronomy’s Virtual Lecture, May. 4, 2021, presented remotely due to COVID-19.
2. Vanderburg, Andrew; Christiansen, Jessie; Marchis, Franck. “Strange and Intriguing Exoplanets” SETI Talks, Feb. 17, 2021, presented remotely due to COVID-19, <https://www.youtube.com/watch?v=lUzQsCCapRQ>.
3. Vanderburg, Andrew; Marchis, Franck. “Planet Orbits Stellar Corpse.” SETI Live, Sept. 24, 2020, <https://www.youtube.com/watch?v=AdfL8QfJdJA>
4. Vanderburg, Andrew; Macdonald, Ryan; Kozakis, Thea. “White Dwarf Planets Live Q&A” Sept. 20, 2020, Watch online at <https://www.youtube.com/watch?v=QM74qgjUvi0>
5. Vanderburg, Andrew “Putting the Solar System in a Galactic Context.” Wisconsin Board of Visitors Meeting, presented remotely due to COVID-19. Sept. 4, 2020.
6. Vanderburg, Andrew; Rowden, Pamela; Coughlin, Jeffrey; Steel, Simon. “Kepler 1649c - New Earth-Size Planet in the Habitable Zone.” SETI Live, April. 21, 2020. <https://www.youtube.com/watch?v=TdxrOD0KCOc>

7. Vanderburg, Andrew “Searching for our nearest planetary neighbors with NASA’s TESS Mission.” Astronomy on Tap ATX, Austin, TX, Dec. 17, 2019.
8. Vanderburg, Andrew (on a panel with Tom Barclay, Natalia Guerrero, and Jennifer Burt). “Hi Neighbor! New Discoveries from NASA’s TESS” Intelligent Futures panel at South by Southwest, Austin, TX, March. 14, 2019.
9. Vanderburg, Andrew “Searching For Planets (and Life) Beyond Our Own Solar System.” Austin Independent School District Science + Mathematics X Conference, Austin, TX, Aug. 1, 2018.
10. Vanderburg, Andrew “Using Artificial Intelligence to Find the Number of Earth-like Planets in our Galaxy” McDonald Observatory Special Viewing Night, Ft. Davis, TX, May 23, 2018.
11. Vanderburg, Andrew “Using Artificial Intelligence to Find the Number of Earth-like Planets in our Galaxy” McDonald Observatory Special Viewing Night, Ft. Davis, TX, Mar. 26, 2018.
12. Vanderburg, Andrew “Using Artificial Intelligence to Find the Number of Earth-like Planets in our Galaxy” McDonald Observatory Board of Visitors Meeting, Austin, TX, Feb. 17, 2018.
13. Vanderburg, Andrew “A Disintegrating Minor Planet Transiting a White Dwarf” McDonald Observatory Special Viewing Night, Ft. Davis, TX, Jan. 31, 2018.
14. Vanderburg, Andrew “A Disintegrating Minor Planet Transiting a White Dwarf” Amateur Telescope Makers of Boston monthly meeting, Cambridge, MA, Dec. 8, 2016.
15. Vanderburg, Andrew “Kepler’s Second Chance” SkyScrapers Inc. Astronomical Society of Rhode Island annual AstroAssembly, North Scituate, RI, Oct. 3, 2015.

Poster Presentations

1. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters.” Frank N. Bash Symposium, Austin, TX, October 2017
2. Vanderburg, Andrew et al. “Extracting Precise K2 Photometry.” Towards other Earths Conference, Porto, Portugal, September 2014
3. Vanderburg, Andrew et al. “Investigating Systematic Errors in Iodine Cell Radial Velocity Measurements.” 223rd American Astronomical Society Meeting, National Harbor, MD, January 2013
4. Vanderburg, Andrew et al. “Improving Radial Velocity Precision for Faint Star Extra-Solar Planet Surveys.” 221st American Astronomical Society Meeting, Long Beach, CA, January 2013
5. Vanderburg, Andrew et al. “Improving Radial Velocity Precision for Faint Star Extra-Solar Planet Surveys.” 2012 Keck Science Meeting, San Diego, CA, September 2012
6. Vanderburg, Andrew et al. “An Algorithm to Increase the Spectral Resolution of the TEDI/Triplespec Instrument.” 2012 Berkeley Physics Undergraduate Poster Session, Berkeley, CA, April 2012
7. Vanderburg, Andrew et al. “An Algorithm to Increase the Usable Spectral Resolution of the TripleSpec/TEDI Instrument.” 2011 Berkeley Physics Undergraduate Poster Session, Berkeley, CA, April 2011
8. Vanderburg, Andrew “Optimization of B-dot Sensors to Resolve Velocity Skin Effect.” Science and Engineering Apprenticeship Program Poster Session, Austin, TX, August 2009

Publications

Refereed/under review (17 first author, 257 total)

1. **Vanderburg, Andrew** & Rodriguez, Joseph E.. “[First Doppler Limits on Binary Planets and Exomoons in the HR 8799 System](#)” *The Astrophysical Journal Letters*, 922, L2 (2021).
2. **Vanderburg, Andrew** et al. “[A giant planet candidate transiting a white dwarf](#)” *Nature*, 585, 363 (2020).

3. **Vanderburg, Andrew** et al. “[A Habitable-zone Earth-sized Planet Rescued from False Positive Status](#)” *The Astrophysical Journal Letters*, 893, L27 (2020).
4. **Vanderburg, Andrew** et al. “[TESS Spots a Compact System of Super-Earths around the Naked-eye Star HR 858](#)” *The Astrophysical Journal Letters*, 881, L19 (2019).
5. **Vanderburg, Andrew** et al. “[Detecting Exomoons via Doppler Monitoring of Directly Imaged Exoplanets](#)” *The Astronomical Journal*, 156, 184 (2018).
6. **Vanderburg, Andrew** et al. “[Zodiacal Exoplanets in Time \(ZEIT\). VII. A Temperate Candidate Super-Earth in the Hyades Cluster](#)” *The Astronomical Journal*, 156, 46 (2018).
7. **Vanderburg, Andrew** et al. “[Precise Masses in the WASP-47 System](#)” *The Astronomical Journal*, 154, 237 (2017).
8. **Vanderburg, Andrew** et al. “[Two Small Planets Transiting HD 3167](#)” *The Astrophysical Journal Letters*, 829, L9 (2016).
9. **Vanderburg, Andrew** et al. “[Five Planets Transiting a Ninth Magnitude Star](#)” *The Astrophysical Journal Letters*, 827, L10 (2016).
10. **Vanderburg, Andrew** et al. “[Radial velocity planet detection biases at the stellar rotational period](#)” *Monthly Notices of the Royal Astronomical Society*, 459, 3565 (2016).
11. **Vanderburg, Andrew** et al. “[Planetary Candidates from the First Year of the K2 Mission](#)” *The Astrophysical Journal Supplement Series*, 222, 14 (2016).
12. **Vanderburg, Andrew** et al. “[A disintegrating minor planet transiting a white dwarf](#)” *Nature*, 526, 546 (2015).
13. **Vanderburg, Andrew** et al. “[Characterizing K2 Planet Discoveries: A Super-Earth Transiting the Bright K Dwarf HIP 116454](#)” *The Astrophysical Journal*, 800, 59 (2015).
14. **Vanderburg, Andrew** & Johnson, John Asher. “[A Technique for Extracting Highly Precise Photometry for the Two-Wheeled Kepler Mission](#)” *Publications of the Astronomical Society of the Pacific*, 126, 948 (2014).
15. **Vanderburg, Andrew** et al. “[The Electrical Specific Action to Melt of Structural Copper and Aluminum Alloys](#)” *IEEE Transactions on Plasma Science*, 42, 3167 (2014).
16. **Vanderburg, Andrew** et al. “[Measurements of Electrical Specific Action to Melt for Brass and Aluminum Alloys](#)” *IEEE Transactions on Plasma Science*, 41, 2427 (2013).
17. **Vanderburg, Andrew M.** & Stefani, Franc. “[Measuring the Armature Position in a Railgun Using Embedded Permanent Magnets](#)” *IEEE Transactions on Plasma Science*, 39, 466 (2011).
18. Kubiak, Sarah; **Vanderburg, Andrew**; et al. “[TTV constraints on additional planets in the WD 1856+534 system](#)” *Monthly Notices of the Royal Astronomical Society*, 521, 4679 (2023).
19. Gilbert, Emily A.; **Vanderburg, Andrew**; et al. “[A Second Earth-sized Planet in the Habitable Zone of the M Dwarf, TOI-700](#)” *The Astrophysical Journal Letters*, 944, L35 (2023).
20. Limbach, Mary Anne; **Vanderburg, Andrew**; et al. “[A new method for finding nearby white dwarfs exoplanets and detecting biosignatures](#)” *Monthly Notices of the Royal Astronomical Society*, 517, 2622 (2022).
21. Sha, Lizhou; **Vanderburg, Andrew M.**; et al. “[TESS spots a mini-neptune interior to a hot saturn in the TOI-2000 system](#)” *arXiv:2209.14396*.
22. de Beurs, Zoe. L.; **Vanderburg, Andrew**; et al. “[Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks](#)” *The Astronomical Journal*, 164, 49 (2022).
23. Christian, Sam; **Vanderburg, Andrew**; et al. “[A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions](#)” *The Astronomical Journal*, 163, 207 (2022).

24. Lally, Maura & **Vanderburg, Andrew**. “Reassessing the Evidence for Time Variability in the Atmosphere of the Exoplanet HAT-P-7 b” *The Astronomical Journal*, 163, 181 (2022).
25. Torres, Guillermo; **Vanderburg, Andrew**; et al. “Eclipsing Binaries in the Open Cluster Ruprecht 147. IV: The Active Triple System EPIC 219511354” *The Astrophysical Journal*, 921, 133 (2021).
26. Venner, Alexander; **Vanderburg, Andrew**; et al. “True Masses of the Long-period Companions to HD 92987 and HD 221420 from Hipparcos-Gaia Astrometry” *The Astronomical Journal*, 162, 12 (2021).
27. Rappaport, S.; **Vanderburg, A.**; et al. “Minimum Orbital Periods of H-rich Bodies” *The Astrophysical Journal*, 913, 118 (2021).
28. Rodriguez, Joseph E.; **Vanderburg, Andrew**; et al. “The First Habitable-zone Earth-sized Planet from TESS. II. Spitzer Confirms TOI-700 d” *The Astronomical Journal*, 160, 117 (2020).
29. Torres, Guillermo; **Vanderburg, Andrew**; et al. “Eclipsing Binaries in the Open Cluster Ruprecht 147. III. The Triple System EPIC 219552514 at the Main-sequence Turnoff” *The Astrophysical Journal*, 896, 162 (2020).
30. Torres, Guillermo; **Vanderburg, Andrew**; et al. “Eclipsing Binaries in the Open Cluster Ruprecht 147. II. Epic 219568666” *The Astrophysical Journal*, 887, 109 (2019).
31. Rappaport, S.; **Vanderburg, A.**; et al. “The Random Transiter - EPIC 249706694/HD 139139” *Monthly Notices of the Royal Astronomical Society*, 488, 2455 (2019).
32. Rampalli, Rayna; **Vanderburg, Andrew**; et al. “A Hot Saturn Near (but Unassociated with) the Open Cluster NGC 1817” *The Astronomical Journal*, 158, 62 (2019).
33. Yu, Liang; **Vanderburg, Andrew**; et al. “Identifying Exoplanets with Deep Learning. III. Automated Triage and Vetting of TESS Candidates” *The Astronomical Journal*, 158, 25 (2019).
34. Dattilo, Anne; **Vanderburg, Andrew**; et al. “Identifying Exoplanets with Deep Learning. II. Two New Super-Earths Uncovered by a Neural Network in K2 Data” *The Astronomical Journal*, 157, 169 (2019).
35. Becker, Juliette C.; **Vanderburg, Andrew**; et al. “A Discrete Set of Possible Transit Ephemerides for Two Long-period Gas Giants Orbiting HIP 41378” *The Astronomical Journal*, 157, 19 (2019).
36. Rizzuto, Aaron C.; **Vanderburg, Andrew**; et al. “Zodiacal Exoplanets in Time (ZEIT). VIII. A Two-planet System in Praesepe from K2 Campaign 16” *The Astronomical Journal*, 156, 195 (2018).
37. Haywood, Raphaëlle D.; **Vanderburg, Andrew**; et al. “An Accurate Mass Determination for Kepler-1655b, a Moderately Irradiated World with a Significant Volatile Envelope” *The Astronomical Journal*, 155, 203 (2018).
38. Curtis, Jason Lee; **Vanderburg, Andrew**; et al. “K2-231 b: A Sub-Neptune Exoplanet Transiting a Solar Twin in Ruprecht 147” *The Astronomical Journal*, 155, 173 (2018).
39. Mayo, Andrew W.; **Vanderburg, Andrew**; et al. “275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0-10” *The Astronomical Journal*, 155, 136 (2018).
40. Rappaport, S.; **Vanderburg, A.**; et al. “Likely transiting exocomets detected by Kepler” *Monthly Notices of the Royal Astronomical Society*, 474, 1453 (2018).
41. Shallue, Christopher J. & **Vanderburg, Andrew**. “Identifying Exoplanets with Deep Learning: A Five-planet Resonant Chain around Kepler-80 and an Eighth Planet around Kepler-90” *The Astronomical Journal*, 155, 94 (2018).
42. Rodriguez, Joseph E.; **Vanderburg, Andrew**; et al. “A System of Three Super Earths Transiting the Late K-Dwarf GJ 9827 at 30 pc” *The Astronomical Journal*, 155, 72 (2018).
43. Mann, Andrew W.; **Vanderburg, Andrew**; et al. “Zodiacal Exoplanets in Time (ZEIT). VI. A Three-planet System in the Hyades Cluster Including an Earth-sized Planet” *The Astronomical Journal*, 155, 4 (2018).
44. Becker, Juliette C.; **Vanderburg, Andrew**; et al. “Exterior Companions to Hot Jupiters Orbiting Cool Stars Are Coplanar” *The Astronomical Journal*, 154, 230 (2017).

45. Dressing, Courtney D.; **Vanderburg, Andrew**; et al. “[Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. II. Planetary Systems Observed During Campaigns 1-7](#)” *The Astronomical Journal*, 154, 207 (2017).
46. Rappaport, S.; **Vanderburg, A.**; et al. “[WD 1202-024: the shortest-period pre-cataclysmic variable](#)” *Monthly Notices of the Royal Astronomical Society*, 471, 948 (2017).
47. Christiansen, Jessie L.; **Vanderburg, Andrew**; et al. “[Three’s Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets](#)” *The Astronomical Journal*, 154, 122 (2017).
48. Rappaport, S.; **Vanderburg, A.**; et al. “[EPIC 220204960: A Quadruple Star System Containing Two Strongly Interacting Eclipsing Binaries](#)” *Monthly Notices of the Royal Astronomical Society*, 467, 2160 (2017).
49. Stello, Dennis; **Vanderburg, Andrew**; et al. “[The K2 M67 Study: Revisiting Old Friends with K2 Reveals Oscillating Red Giants in the Open Cluster M67](#)” *The Astrophysical Journal*, 832, 133 (2016).
50. Becker, Juliette C.; **Vanderburg, Andrew**; et al. “[WASP-47: A Hot Jupiter System with Two Additional Planets Discovered by K2](#)” *The Astrophysical Journal Letters*, 812, L18 (2015).
51. Muirhead, Philip S.; **Vanderburg, Andrew**; et al. “[Characterizing the Cool KOIs. V. KOI-256: A Mutually Eclipsing Post-common Envelope Binary](#)” *The Astrophysical Journal*, 767, 111 (2013).
52. Mayo, Andrew W.; Dressing, Courtney D.; **Vanderburg, Andrew**; et al. “[Hyades Member K2-136c: The Smallest Planet in an Open Cluster with a Precisely Measured Mass](#)” *arXiv:2304.02779*.
53. Weisserman, D.; Becker, J. C.; & **Vanderburg, A.** “[Kepler-80 Revisited: Assessing the Participation of a Newly Discovered Planet in the Resonant Chain](#)” *The Astronomical Journal*, 165, 89 (2023).
54. Rodriguez, Joseph E.; Quinn, Samuel N.; **Vanderburg, Andrew**; et al. “[Another Shipment of Six Short-Period Giant Planets from TESS](#)” *Monthly Notices of the Royal Astronomical Society*, (2023).
55. Limbach, Mary Anne; Soares-Furtado, Melinda; **Vanderburg, Andrew**; et al. “[The TEMPO Survey. I. Predicting Yields of Transiting Exosatellites, Moons, and Planets from a 30 days Survey of Orion with the Roman Space Telescope](#)” *Publications of the Astronomical Society of the Pacific*, 135, 014401 (2023).
56. Capistrant, Benjamin K.; Soares-Furtado, Melinda; **Vanderburg, Andrew**; et al. “[A Population of Dipper Stars from the Transiting Exoplanet Survey Satellite Mission](#)” *The Astrophysical Journal Supplement Series*, 263, 14 (2022).
57. Venner, Alexander; Pearce, Logan A.; & **Vanderburg, Andrew**. “[An edge-on orbit for the eccentric long-period planet HR 5183 b](#)” *Monthly Notices of the Royal Astronomical Society*, 516, 3431 (2022).
58. Vach, Sydney; Quinn, Samuel N.; **Vanderburg, Andrew**; et al. “[TOI-712: A System of Adolescent Mini-Neptunes Extending to the Habitable Zone](#)” *The Astronomical Journal*, 164, 71 (2022).
59. Kristiansen, Martti H. K.; Rappaport, Saul A.; **Vanderburg, Andrew M.**; et al. “[The Visual Survey Group: A Decade of Hunting Exoplanets and Unusual Stellar Events with Space-based Telescopes](#)” *Publications of the Astronomical Society of the Pacific*, 134, 074401 (2022).
60. Han, E.; Rappaport, S. A.; **Vanderburg, A.**; et al. “[A 2+1 + 1 quadruple star system containing the most eccentric, low-mass, short-period, eclipsing binary known](#)” *Monthly Notices of the Royal Astronomical Society*, 510, 2448 (2022).
61. Torres, Guillermo; Feiden, Gregory A.; **Vanderburg, Andrew**; et al. “[A Stringent Test of Magnetic Models of Stellar Evolution](#)” *Galaxies*, 10, 3 (2021).
62. Torres, Guillermo; Feiden, Gregory A.; **Vanderburg, Andrew**; et al. “[A Stringent Test of Magnetic Models of Stellar Evolution](#)” *arXiv:2112.12155*.
63. Quinn, Samuel N.; Rappaport, Saul; **Vanderburg, Andrew**; et al. “[A long-period substellar object exhibiting a single transit in Kepler](#)” *arXiv:2107.00027*.

64. Mann, Andrew W.; Johnson, Marshall C.; **Vanderburg, Andrew**; et al. “[TESS Hunt for Young and Maturing Exoplanets \(THYME\). III. A Two-planet System in the 400 Myr Ursa Major Group](#)” *The Astronomical Journal*, 160, 179 (2020).
65. Huang, Chelsea X.; Quinn, Samuel N.; **Vanderburg, Andrew**; et al. “[TESS Spots a Hot Jupiter with an Inner Transiting Neptune](#)” *The Astrophysical Journal Letters*, 892, L7 (2020).
66. Leiner, Emily; Mathieu, Robert D.; **Vanderburg, Andrew**; et al. “[Blue Lurkers: Hidden Blue Stragglers on the M67 Main Sequence Identified from Their Kepler/K2 Rotation Periods](#)” *The Astrophysical Journal*, 881, 47 (2019).
67. Carmichael, Theron W.; Latham, David W.; & **Vanderburg, Andrew M.** “[New Substellar Discoveries from Kepler and K2: Is There a Brown Dwarf Desert?](#)” *The Astronomical Journal*, 158, 38 (2019).
68. Rappaport, S.; Zhou, G.; **Vanderburg, A.**; et al. “[Deep long asymmetric occultation in EPIC 204376071](#)” *Monthly Notices of the Royal Astronomical Society*, 485, 2681 (2019).
69. Vanderspek, Roland; Huang, Chelsea X.; **Vanderburg, Andrew**; et al. “[TESS Discovery of an Ultra-short-period Planet around the Nearby M Dwarf LHS 3844](#)” *The Astrophysical Journal Letters*, 871, L24 (2019).
70. Huang, Chelsea X.; Burt, Jennifer; **Vanderburg, Andrew**; et al. “[TESS Discovery of a Transiting Super-Earth in the pi Mensae System](#)” *The Astrophysical Journal Letters*, 868, L39 (2018).
71. David, Trevor J.; Mamajek, Eric E.; **Vanderburg, Andrew**; et al. “[Discovery of a Transiting Adolescent Sub-Neptune Exoplanet with K2](#)” *The Astronomical Journal*, 156, 302 (2018).
72. Torres, Guillermo; Curtis, Jason L.; **Vanderburg, Andrew**; et al. “[Eclipsing Binaries in the Open Cluster Ruprecht 147. I. EPIC 219394517](#)” *The Astrophysical Journal*, 866, 67 (2018).
73. Zhou, George; Rodriguez, Joseph E.; **Vanderburg, Andrew**; et al. “[The Warm Neptunes around HD 106315 Have Low Stellar Obliquities](#)” *The Astronomical Journal*, 156, 93 (2018).
74. Esselstein, Rebecca; Aigrain, Suzanne; **Vanderburg, Andrew**; et al. “[The K2 M67 Study: Establishing the Limits of Stellar Rotation Period Measurements in M67 with K2 Campaign 5 Data](#)” *The Astrophysical Journal*, 859, 167 (2018).
75. Rappaport, S.; Gary, B. L.; **Vanderburg, A.**; et al. “[WD 1145+017: optical activity during 2016-2017 and limits on the X-ray flux](#)” *Monthly Notices of the Royal Astronomical Society*, 474, 933 (2018).
76. Rizzuto, Aaron C.; Mann, Andrew W.; **Vanderburg, Andrew**; et al. “[Zodiacal Exoplanets in Time \(ZEIT\). V. A Uniform Search for Transiting Planets in Young Clusters Observed by K2](#)” *The Astronomical Journal*, 154, 224 (2017).
77. Shporer, Avi; Zhou, George; **Vanderburg, Andrew**; et al. “[Three Statistically Validated K2 Transiting Warm Jupiter Exoplanets Confirmed as Low-mass Stars](#)” *The Astrophysical Journal Letters*, 847, L18 (2017).
78. Rodriguez, Joseph E.; Zhou, George; **Vanderburg, Andrew**; et al. “[A Multi-planet System Transiting the V = 9 Rapidly Rotating F-Star HD 106315](#)” *The Astronomical Journal*, 153, 256 (2017).
79. Croll, Bryce; Dalba, Paul A.; **Vanderburg, Andrew**; et al. “[Multiwavelength Transit Observations of the Candidate Disintegrating Planetesimals Orbiting WD 1145+017](#)” *The Astrophysical Journal*, 836, 82 (2017).
80. Mann, Andrew W.; Gaidos, Eric; **Vanderburg, Andrew**; et al. “[Zodiacal Exoplanets in Time \(ZEIT\). IV. Seven Transiting Planets in the Praesepe Cluster](#)” *The Astronomical Journal*, 153, 64 (2017).
81. Swift, Jonathan J.; Montet, Benjamin T.; **Vanderburg, Andrew**; et al. “[Characterizing the Cool KOIs. VIII. Parameters of the Planets Orbiting Kepler’s Coolest Dwarfs](#)” *The Astrophysical Journal Supplement Series*, 218, 26 (2015).
82. Becker, Juliette C.; Johnson, John Asher; **Vanderburg, Andrew**; et al. “[Extracting Radial Velocities of A- and B-type Stars from Echelle Spectrograph Calibration Spectra](#)” *The Astrophysical Journal Supplement Series*, 217, 29 (2015).

83. Muirhead, Philip S.; Mann, Andrew W.; **Vanderburg, Andrew**; et al. “[Kepler-445, Kepler-446 and the Occurrence of Compact Multiples Orbiting Mid-M Dwarf Stars](#)” *The Astrophysical Journal*, 801, 18 (2015).
84. Kostov, Veselin B. et al., **including Vanderburg, Andrew**. “[TIC 219006972: a compact, coplanar quadruple star system consisting of two eclipsing binaries with an outer period of 168 d](#)” *Monthly Notices of the Royal Astronomical Society*, 522, 90 (2023).
85. Rappaport, S. A. et al., **including Vanderburg, Andrew**. “[A study of nine compact triply eclipsing triples](#)” *Monthly Notices of the Royal Astronomical Society*, 521, 558 (2023).
86. Quintana, Elisa V. et al., **including Vanderburg, Andrew**. “[Two Warm Super-Earths Transiting the Nearby M Dwarf TOI-2095](#)” *arXiv:2304.09189*.
87. Georgieva, Iskra Y. et al., **including Vanderburg, Andrew**. “[TOI-733 b – a planet in the small-planet radius valley orbiting a Sun-like star](#)” *arXiv:2304.06655*.
88. Bonomo, A. S. et al., **including Vanderburg, Andrew**. “[Cold Jupiters and improved masses in 38 Kepler and K2 small-planet systems from 3661 high-precision HARPS-N radial velocities. No excess of cold Jupiters in small-planet systems](#)” *arXiv:2304.05773*.
89. Thygesen, Erica et al., **including Vanderburg, Andrew**. “[The K2 and TESS Synergy. II. Revisiting 26 Systems in the TESS Primary Mission](#)” *The Astronomical Journal*, 165, 155 (2023).
90. Zasche, P. et al., **including Vanderburg, Andrew**. “[V994 Herculis: a unique triply eclipsing sextuple star system](#)” *Monthly Notices of the Royal Astronomical Society*, 520, 3127 (2023).
91. Kostov, Veselin B. et al., **including Vanderburg, Andrew**. “[TIC 219006972: A Compact, Coplanar Quadruple Star System Consisting of Two Eclipsing Binaries with an Outer Period of 168 days](#)” *Monthly Notices of the Royal Astronomical Society*, (2023).
92. Harada, Caleb K. et al., **including Vanderburg, Andrew**. “[Stability and detectability of exomoons orbiting HIP 41378 f, a temperate Jovian planet with an anomalously low apparent density](#)” *arXiv:2303.14294*.
93. Hobson, Melissa J. et al., **including Vanderburg, Andrew**. “[TOI-3235 b: A Transiting Giant Planet around an M4 Dwarf Star](#)” *The Astrophysical Journal Letters*, 946, L4 (2023).
94. Newton, Elisabeth R. et al., **including Vanderburg, Andrew**. “[Erratum: ”TESS Hunt for Young and Maturing Exoplanets \(THYME\). VII. Membership, Rotation, and Lithium in the Young Cluster Group-X and a New Young Exoplanet” \(2022, AJ, 164, 119\)](#)” *The Astronomical Journal*, 165, 136 (2023).
95. Heitzmann, Alexis et al., **including Vanderburg, Andrew**. “[TOI-4562b: A Highly Eccentric Temperate Jupiter Analog Orbiting a Young Field Star](#)” *The Astronomical Journal*, 165, 121 (2023).
96. Tey, Evan et al., **including Vanderburg, Andrew**. “[Identifying Exoplanets with Deep Learning. V. Improved Light-curve Classification for TESS Full-frame Image Observations](#)” *The Astronomical Journal*, 165, 95 (2023).
97. Tey, Evan et al., **including Vanderburg, Andrew**. “[TESS Discovery of Twin Planets near 2:1 Resonance around Early M Dwarf TOI 4342](#)” *The Astronomical Journal*, 165, 93 (2023).
98. Wood, Mackenna L. et al., **including Vanderburg, Andrew**. “[TESS Hunt for Young and Maturing Exoplanets \(THYME\). IX. A 27 Myr Extended Population of Lower Centaurus Crux with a Transiting Two-planet System](#)” *The Astronomical Journal*, 165, 85 (2023).
99. Tofflemire, Benjamin M. et al., **including Vanderburg, Andrew**. “[A Low-mass, Pre-main-sequence Eclipsing Binary in the 40 Myr Columba Association-Fundamental Stellar Parameters and Modeling the Effect of Star Spots](#)” *The Astronomical Journal*, 165, 46 (2023).
100. Vowell, Noah et al., **including Vanderburg, Andrew**. “[HIP 33609 b: An Eccentric Brown Dwarf Transiting a V=7.3 Rapidly Rotating B-Star](#)” *arXiv:2301.09663*.
101. Thao, Pa Chia et al., **including Vanderburg, Andrew**. “[Hazy with a Chance of Star Spots: Constraining the Atmosphere of Young Planet K2-33b](#)” *The Astronomical Journal*, 165, 23 (2023).

102. Powell, Brian P. et al., **including Vanderburg, Andrew**. “[TIC 114936199: A Quadruple Star System with a 12 Day Outer-orbit Eclipse](#)” *The Astrophysical Journal*, 938, 133 (2022).
103. Newton, Elisabeth R. et al., **including Vanderburg, Andrew**. “[TESS Hunt for Young and Maturing Exoplanets \(THYME\). VII. Membership, Rotation, and Lithium in the Young Cluster Group-X and a New Young Exoplanet](#)” *The Astronomical Journal*, 164, 115 (2022).
104. Barber, Madyson G. et al., **including Vanderburg, Andrew**. “[Transit Hunt for Young and Maturing Exoplanets \(THYME\). VIII. A Pleiades-age Association Harboring Two Transiting Planetary Systems from Kepler](#)” *The Astronomical Journal*, 164, 88 (2022).
105. Wittrock, Justin M. et al., **including Vanderburg, Andrew**. “[Transit Timing Variations for AU Microscopii b and c](#)” *The Astronomical Journal*, 164, 27 (2022).
106. Hord, Benjamin J. et al., **including Vanderburg, Andrew**. “[The Discovery of a Planetary Companion Interior to Hot Jupiter WASP-132 b](#)” *The Astronomical Journal*, 164, 13 (2022).
107. Rappaport, S. A. et al., **including Vanderburg, Andrew**. “[Six new compact triply eclipsing triples found with TESS](#)” *Monthly Notices of the Royal Astronomical Society*, 513, 4341 (2022).
108. Martioli, E. et al., **including Vanderburg, Andrew**. “[TOI-1759 b: A transiting sub-Neptune around a low mass star characterized with SPIRou and TESS](#)” *Astronomy and Astrophysics*, 660, A86 (2022).
109. Kostov, Veselin B. et al., **including Vanderburg, Andrew**. “[Ninety-seven Eclipsing Quadruple Star Candidates Discovered in TESS Full-frame Images](#)” *The Astrophysical Journal Supplement Series*, 259, 66 (2022).
110. Kunitomo, Michelle et al., **including Vanderburg, Andrew**. “[The TESS Faint-star Search: 1617 TOIs from the TESS Primary Mission](#)” *The Astrophysical Journal Supplement Series*, 259, 33 (2022).
111. Zhao, Lily L. et al., **including Vanderburg, Andrew**. “[The EXPRES Stellar Signals Project II. State of the Field in Disentangling Photospheric Velocities](#)” *The Astronomical Journal*, 163, 171 (2022).
112. Winters, Jennifer G. et al., **including Vanderburg, Andrew**. “[A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds](#)” *The Astronomical Journal*, 163, 168 (2022).
113. Mann, Andrew W. et al., **including Vanderburg, Andrew**. “[TESS Hunt for Young and Maturing Exoplanets \(THYME\). VI. An 11 Myr Giant Planet Transiting a Very-low-mass Star in Lower Centaurus Crux](#)” *The Astronomical Journal*, 163, 156 (2022).
114. Silverstein, Michele L. et al., **including Vanderburg, Andrew**. “[The LHS 1678 System: Two Earth-sized Transiting Planets and an Astrometric Companion Orbiting an M Dwarf Near the Convective Boundary at 20 pc](#)” *The Astronomical Journal*, 163, 151 (2022).
115. Lacedelli, G. et al., **including Vanderburg, Andrew**. “[Investigating the architecture and internal structure of the TOI-561 system planets with CHEOPS, HARPS-N, and TESS](#)” *Monthly Notices of the Royal Astronomical Society*, 511, 4551 (2022).
116. Alam, Munazza K. et al., **including Vanderburg, Andrew**. “[The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System](#)” *The Astrophysical Journal Letters*, 927, L5 (2022).
117. Hedges, Christina et al., **including Vanderburg, Andrew**. “[Erratum: ”TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up” \(2021, AJ, 162, 54\)](#)” *The Astronomical Journal*, 163, 143 (2022).
118. Zinn, Joel C. et al., **including Vanderburg, Andrew**. “[The K2 Galactic Archaeology Program Data Release 3: Age-abundance Patterns in C1-C8 and C10-C18](#)” *The Astrophysical Journal*, 926, 191 (2022).
119. Dong, Jiayin et al., **including Vanderburg, Andrew**. “[NEID Rossiter-McLaughlin Measurement of TOI-1268b: A Young Warm Saturn Aligned with Its Cool Host Star](#)” *The Astrophysical Journal Letters*, 926, L7 (2022).

120. Dalba, Paul A. et al., **including Vanderburg, Andrew**. “The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261 Day Orbit with the Automated Planet Finder Telescope” *The Astronomical Journal*, 163, 61 (2022).
121. Saunders, Nicholas et al., **including Vanderburg, Andrew**. “TESS Giants Transiting Giants. I.: A Noninflated Hot Jupiter Orbiting a Massive Subgiant” *The Astronomical Journal*, 163, 53 (2022).
122. Nava, Chantanelle et al., **including Vanderburg, Andrew**. “K2-79b and K2-222b: Mass Measurements of Two Small Exoplanets with Periods beyond 10 days that Overlap with Periodic Magnetic Activity Signals” *The Astronomical Journal*, 163, 41 (2022).
123. Borkovits, T. et al., **including Vanderburg, Andrew**. “Triply eclipsing triple stars in the northern TESS fields: TICs 193993801, 388459317, and 52041148” *Monthly Notices of the Royal Astronomical Society*, 510, 1352 (2022).
124. Prša, Andrej et al., **including Vanderburg, Andrew**. “TESS Eclipsing Binary Stars. I. Short-cadence Observations of 4584 Eclipsing Binaries in Sectors 1-26” *The Astrophysical Journal Supplement Series*, 258, 16 (2022).
125. Ikwut-Ukwa, Mma et al., **including Vanderburg, Andrew**. “Two Massive Jupiters in Eccentric Orbits from the TESS Full-frame Images” *The Astronomical Journal*, 163, 9 (2022).
126. Hedges, Christina et al., **including Vanderburg, Andrew**. “Erratum: ”TOI-2076 and TOI-1807: Two young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up” (2021, AJ, 162, 54)” *The Astronomical Journal*, 162, 305 (2021).
127. Xu, Siyi et al., **including Vanderburg, Andrew**. “Gemini/GMOS Transmission Spectroscopy of the Grazing Planet Candidate WD 1856+534 b” *The Astronomical Journal*, 162, 296 (2021).
128. Powell, Brian P. et al., **including Vanderburg, Andrew**. “Mysterious Dust-emitting Object Orbiting TIC 400799224” *The Astronomical Journal*, 162, 299 (2021).
129. Trifonov, Trifon et al., **including Vanderburg, Andrew**. “A Pair of Warm Giant Planets near the 2:1 Mean Motion Resonance around the K-dwarf Star TOI-2202” *The Astronomical Journal*, 162, 283 (2021).
130. Heitzmann, Alexis et al., **including Vanderburg, Andrew**. “The Obliquity of HIP 67522 b: A 17 Myr Old Transiting Hot, Jupiter-sized Planet” *The Astrophysical Journal Letters*, 922, L1 (2021).
131. Martin, David V. et al., **including Vanderburg, Andrew**. “TOI-1259Ab - a gas giant planet with 2.7 per cent deep transits and a bound white dwarf companion” *Monthly Notices of the Royal Astronomical Society*, 507, 4132 (2021).
132. Milbourne, T. W. et al., **including Vanderburg, Andrew**. “Estimating Magnetic Filling Factors from Simultaneous Spectroscopy and Photometry: Disentangling Spots, Plage, and Network” *The Astrophysical Journal*, 920, 21 (2021).
133. Teske, Johanna et al., **including Vanderburg, Andrew**. “The Magellan-TESS Survey. I. Survey Description and Midsurvey Results” *The Astrophysical Journal Supplement Series*, 256, 33 (2021).
134. Hirano, Teruyuki et al., **including Vanderburg, Andrew**. “Two Bright M Dwarfs Hosting Ultra-Short-Period Super-Earths with Earth-like Compositions” *The Astronomical Journal*, 162, 161 (2021).
135. Fausnaugh, Michael et al., **including Vanderburg, Andrew**. “The TESS Mission Target Selection Procedure” *Publications of the Astronomical Society of the Pacific*, 133, 095002 (2021).
136. Otegi, J. F. et al., **including Vanderburg, Andrew**. “TESS and HARPS reveal two sub-Neptunes around TOI 1062” *Astronomy and Astrophysics*, 653, A105 (2021).
137. Vanderbosch, Zachary P. et al., **including Vanderburg, Andrew**. “Recurring Planetary Debris Transits and Circumstellar Gas around White Dwarf ZTF J0328-1219” *The Astrophysical Journal*, 917, 41 (2021).
138. Benni, P. et al., **including Vanderburg, Andrew**. “Discovery of a young low-mass brown dwarf transiting a fast-rotating F-type star by the Galactic Plane eXoplanet (GPX) survey” *Monthly Notices of the Royal Astronomical Society*, 505, 4956 (2021).

139. Hedges, Christina et al., **including Vanderburg, Andrew**. “TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up” *The Astronomical Journal*, 162, 54 (2021).
140. Guerrero, Natalia M. et al., **including Vanderburg, Andrew**. “The TESS Objects of Interest Catalog from the TESS Prime Mission” *The Astrophysical Journal Supplement Series*, 254, 39 (2021).
141. Dobrotka, A. et al., **including Vanderburg, Andrew**. “Searching for the 1 mHz variability in the flickering of V4743 Sgr: A cataclysmic variable accreting at a high rate” *Astronomy and Astrophysics*, 649, A67 (2021).
142. Borkovits, T. et al., **including Vanderburg, Andrew**. “BG Ind: the nearest doubly eclipsing, compact hierarchical quadruple system” *Monthly Notices of the Royal Astronomical Society*, 503, 3759 (2021).
143. Rappaport, S. A. et al., **including Vanderburg, Andrew**. “A tidally tilted sectoral dipole pulsation mode in the eclipsing binary TIC 63328020” *Monthly Notices of the Royal Astronomical Society*, 503, 254 (2021).
144. Rodriguez, Joseph E. et al., **including Vanderburg, Andrew**. “TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images” *The Astronomical Journal*, 161, 194 (2021).
145. Tofflemire, Benjamin M. et al., **including Vanderburg, Andrew**. “TESS Hunt for Young and Maturing Exoplanets (THYME). V. A Sub-Neptune Transiting a Young Star in a Newly Discovered 250 Myr Association” *The Astronomical Journal*, 161, 171 (2021).
146. Powell, Brian P. et al., **including Vanderburg, Andrew**. “TIC 168789840: A Sextuply Eclipsing Sextuple Star System” *The Astronomical Journal*, 161, 162 (2021).
147. Dawson, Rebekah I. et al., **including Vanderburg, Andrew**. “Precise Transit and Radial-velocity Characterization of a Resonant Pair: The Warm Jupiter TOI-216c and Eccentric Warm Neptune TOI-216b” *The Astronomical Journal*, 161, 161 (2021).
148. Hurt, Spencer A. et al., **including Vanderburg, Andrew**. “A Decade of Radial-velocity Monitoring of Vega and New Limits on the Presence of Planets” *The Astronomical Journal*, 161, 157 (2021).
149. Addison, Brett C. et al., **including Vanderburg, Andrew**. “TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star” *Monthly Notices of the Royal Astronomical Society*, 502, 3704 (2021).
150. Gan, Tianjun et al., **including Vanderburg, Andrew**. “Revisiting the HD 21749 planetary system with stellar activity modelling” *Monthly Notices of the Royal Astronomical Society*, 501, 6042 (2021).
151. Seager, Sara et al., **including Vanderburg, Andrew**. “HD 219134 Revisited: Planet d Transit Upper Limit and Planet f Transit Nondetection with ASTERIA and TESS” *The Astronomical Journal*, 161, 117 (2021).
152. Dalba, Paul A. et al., **including Vanderburg, Andrew**. “Giant Outer Transiting Exoplanet Mass (GOT ‘EM) Survey. I. Confirmation of an Eccentric, Cool Jupiter with an Interior Earth-sized Planet Orbiting Kepler-1514” *The Astronomical Journal*, 161, 103 (2021).
153. Carmichael, Theron W. et al., **including Vanderburg, Andrew**. “TOI-811b and TOI-852b: New Transiting Brown Dwarfs with Similar Masses and Very Different Radii and Ages from the TESS Mission” *The Astronomical Journal*, 161, 97 (2021).
154. Daylan, Tansu et al., **including Vanderburg, Andrew**. “TESS Discovery of a Super-Earth and Three Sub-Neptunes Hosted by the Bright, Sun-like Star HD 108236” *The Astronomical Journal*, 161, 85 (2021).
155. Sha, Lizhou et al., **including Vanderburg, Andrew**. “TOI-954 b and K2-329 b: Short-period Saturn-mass Planets that Test whether Irradiation Leads to Inflation” *The Astronomical Journal*, 161, 82 (2021).
156. Newton, Elisabeth R. et al., **including Vanderburg, Andrew**. “TESS Hunt for Young and Maturing Exoplanets (THYME). IV. Three Small Planets Orbiting a 120 Myr Old Star in the Pisces-Eridanus Stream” *The Astronomical Journal*, 161, 65 (2021).
157. Sandquist, Eric L. et al., **including Vanderburg, Andrew**. “The K2 M67 Study: Precise Mass for a Turnoff Star in the Old Open Cluster M67” *The Astronomical Journal*, 161, 59 (2021).

158. Zhou, George et al., **including Vanderburg, Andrew**. “Two Young Planetary Systems around Field Stars with Ages between 20 and 320 Myr from TESS” *The Astronomical Journal*, 161, 2 (2021).
159. Mortier, A. et al., **including Vanderburg, Andrew**. “K2-111: an old system with two planets in near-resonance” *Monthly Notices of the Royal Astronomical Society*, 499, 5004 (2020).
160. Curtis, Jason Lee et al., **including Vanderburg, Andrew**. “When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147” *The Astrophysical Journal*, 904, 140 (2020).
161. Becker, J. et al., **including Vanderburg, Andrew**. “The Origin of Systems of Tightly Packed Inner Planets with Misaligned, Ultra-short-period Companions” *The Astronomical Journal*, 160, 254 (2020).
162. Fridlund, M. et al., **including Vanderburg, Andrew**. “The TOI-763 system: sub-Neptunes orbiting a Sun-like star” *Monthly Notices of the Royal Astronomical Society*, 498, 4503 (2020).
163. Ikwut-Ukwa, Mma et al., **including Vanderburg, Andrew**. “The K2 and TESS Synergy. I. Updated Ephemerides and Parameters for K2-114, K2-167, K2-237, and K2-261” *The Astronomical Journal*, 160, 209 (2020).
164. Burt, Jennifer A. et al., **including Vanderburg, Andrew**. “TOI-824 b: A New Planet on the Lower Edge of the Hot Neptune Desert” *The Astronomical Journal*, 160, 153 (2020).
165. Demory, B. -O. et al., **including Vanderburg, Andrew**. “A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266” *Astronomy and Astrophysics*, 642, A49 (2020).
166. Kaltenegger, Lisa et al., **including Vanderburg, Andrew**. “The White Dwarf Opportunity: Robust Detections of Molecules in Earth-like Exoplanet Atmospheres with the James Webb Space Telescope” *The Astrophysical Journal Letters*, 901, L1 (2020).
167. Kane, Stephen R. et al., **including Vanderburg, Andrew**. “Transits of Known Planets Orbiting a Naked-eye Star” *The Astronomical Journal*, 160, 129 (2020).
168. Suissa, Gabrielle et al., **including Vanderburg, Andrew**. “The First Habitable-zone Earth-sized Planet from TESS. III. Climate States and Characterization Prospects for TOI-700 d” *The Astronomical Journal*, 160, 118 (2020).
169. Gilbert, Emily A. et al., **including Vanderburg, Andrew**. “The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System” *The Astronomical Journal*, 160, 116 (2020).
170. Badenas-Agusti, Mariona et al., **including Vanderburg, Andrew**. “HD 191939: Three Sub-Neptunes Transiting a Sun-like Star Only 54 pc Away” *The Astronomical Journal*, 160, 113 (2020).
171. Rizzuto, Aaron C. et al., **including Vanderburg, Andrew**. “TESS Hunt for Young and Maturing Exoplanets (THYME). II. A 17 Myr Old Transiting Hot Jupiter in the Sco-Cen Association” *The Astronomical Journal*, 160, 33 (2020).
172. Nielsen, L. D. et al., **including Vanderburg, Andrew**. “Three short-period Jupiters from TESS. HIP 65Ab, TOI-157b, and TOI-169b” *Astronomy and Astrophysics*, 639, A76 (2020).
173. Plavchan, Peter et al., **including Vanderburg, Andrew**. “A planet within the debris disk around the pre-main-sequence star AU Microscopii” *Nature*, 582, 497 (2020).
174. Gaidos, E. et al., **including Vanderburg, Andrew**. “Zodiacal exoplanets in time - X. The orbit and atmosphere of the young ‘neptune desert’-dwelling planet K2-100b” *Monthly Notices of the Royal Astronomical Society*, 495, 650 (2020).
175. Kurtz, D. W. et al., **including Vanderburg, Andrew**. “The single-sided pulsator CO Camelopardalis” *Monthly Notices of the Royal Astronomical Society*, 494, 5118 (2020).
176. Pepper, Joshua et al., **including Vanderburg, Andrew**. “TESS Reveals HD 118203 b to be a Transiting Planet” *The Astronomical Journal*, 159, 243 (2020).

177. Eisner, N. L. et al., **including Vanderburg, Andrew**. “Planet Hunters TESS I: TOI 813, a subgiant hosting a transiting Saturn-sized planet on an 84-day orbit” *Monthly Notices of the Royal Astronomical Society*, 494, 750 (2020).
178. Pearce, Logan A. et al., **including Vanderburg, Andrew**. “Orbital Parameter Determination for Wide Stellar Binary Systems in the Age of Gaia” *The Astrophysical Journal*, 894, 115 (2020).
179. Dalba, Paul A. et al., **including Vanderburg, Andrew**. “The TESS-Keck Survey. I. A Warm Sub-Saturn-mass Planet and a Caution about Stray Light in TESS Cameras” *The Astronomical Journal*, 159, 241 (2020).
180. Zhou, G. et al., **including Vanderburg, Andrew**. “A Well-aligned Orbit for the 45 Myr-old Transiting Neptune DS Tuc Ab” *The Astrophysical Journal Letters*, 892, L21 (2020).
181. Handler, G. et al., **including Vanderburg, Andrew**. “Tidally trapped pulsations in a close binary star system discovered by TESS” *Nature Astronomy*, 4, 684 (2020).
182. Díaz, Matías R. et al., **including Vanderburg, Andrew**. “TOI-132 b: A short-period planet in the Neptune desert transiting a $V = 11.3$ G-type star” *Monthly Notices of the Royal Astronomical Society*, 493, 973 (2020).
183. Nielsen, L. D. et al., **including Vanderburg, Andrew**. “Mass determinations of the three mini-Neptunes transiting TOI-125” *Monthly Notices of the Royal Astronomical Society*, 492, 5399 (2020).
184. Oláh, K. et al., **including Vanderburg, Andrew**. “The importance of studying active giant stars in eclipsing binaries - and the role of citizen scientists in finding them” *Contributions of the Astronomical Observatory Skalnaté Pleso*, 50, 390 (2020).
185. Sandquist, Eric L. et al., **including Vanderburg, Andrew**. “Variability in the Massive Open Cluster NGC 1817 from K2: A Rich Population of Asteroseismic Red Clump, Eclipsing Binary, and Main-sequence Pulsating Stars” *The Astronomical Journal*, 159, 96 (2020).
186. Shporer, Avi et al., **including Vanderburg, Andrew**. “GJ 1252 b: A $1.2 R_{\oplus}$ Planet Transiting an M3 Dwarf at 20.4 pc” *The Astrophysical Journal Letters*, 890, L7 (2020).
187. Carrillo, Andreia et al., **including Vanderburg, Andrew**. “Know thy star, know thy planet: chemodynamically characterizing TESS targets” *Monthly Notices of the Royal Astronomical Society*, 491, 4365 (2020).
188. Frustagli, G. et al., **including Vanderburg, Andrew**. “An ultra-short period rocky super-Earth orbiting the G2-star HD 80653” *Astronomy and Astrophysics*, 633, A133 (2020).
189. Dubber, Sophie C. et al., **including Vanderburg, Andrew**. “Using HARPS-N to characterize the long-period planets in the PH-2 and Kepler-103 systems” *Monthly Notices of the Royal Astronomical Society*, 490, 5103 (2019).
190. Lund, Mikkel N. et al., **including Vanderburg, Andrew**. “Asteroseismology of the Multiplanet System K2-93” *The Astronomical Journal*, 158, 248 (2019).
191. Santerne, A. et al., **including Vanderburg, Andrew**. “An extremely low-density and temperate giant exoplanet” *arXiv:1911.07355*.
192. Blunt, Sarah et al., **including Vanderburg, Andrew**. “Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 au” *The Astronomical Journal*, 158, 181 (2019).
193. Quinn, Samuel N. et al., **including Vanderburg, Andrew**. “Near-resonance in a System of Sub-Neptunes from TESS” *The Astronomical Journal*, 158, 177 (2019).
194. Yu, Zhifei et al., **including Vanderburg, Andrew**. “A 9-h CV with one outburst in 4 yr of Kepler data” *Monthly Notices of the Royal Astronomical Society*, 489, 1023 (2019).
195. Gaidos, E. et al., **including Vanderburg, Andrew**. “Planetesimals around stars with TESS (PAST) - I. Transient dimming of a binary solar analogue at the end of the planet accretion era” *Monthly Notices of the Royal Astronomical Society*, 488, 4465 (2019).

196. Rodríguez Martínez, Romy et al., **including Vanderburg, Andrew**. “[Characterization of Low-mass K2 Planet Hosts Using Near-infrared Spectroscopy](#)” *The Astronomical Journal*, 158, 135 (2019).
197. Kreidberg, Laura et al., **including Vanderburg, Andrew**. “[Absence of a thick atmosphere on the terrestrial exoplanet LHS 3844b](#)” *Nature*, 573, 87 (2019).
198. Dressing, Courtney D. et al., **including Vanderburg, Andrew**. “[Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. IV. Updated Properties for 86 Cool Dwarfs Observed during Campaigns 1-17](#)” *The Astronomical Journal*, 158, 87 (2019).
199. Eastman, Jason D. et al., **including Vanderburg, Andrew**. “[EXOFASTv2: A public, generalized, publication-quality exoplanet modeling code](#)” *arXiv:1907.09480*.
200. Günther, Maximilian N. et al., **including Vanderburg, Andrew**. “[A super-Earth and two sub-Neptunes transiting the nearby and quiet M dwarf TOI-270](#)” *Nature Astronomy*, 3, 1099 (2019).
201. Newton, Elisabeth R. et al., **including Vanderburg, Andrew**. “[TESS Hunt for Young and Maturing Exoplanets \(THYME\): A Planet in the 45 Myr Tucana-Horologium Association](#)” *The Astrophysical Journal Letters*, 880, L17 (2019).
202. Xu, Siyi et al., **including Vanderburg, Andrew**. “[Shallow Ultraviolet Transits of WD 1145+017](#)” *The Astronomical Journal*, 157, 255 (2019).
203. Zeng, Li et al., **including Vanderburg, Andrew**. “[Growth model interpretation of planet size distribution](#)” *Proceedings of the National Academy of Science*, 116, 9723 (2019).
204. Rodriguez, Joseph E. et al., **including Vanderburg, Andrew**. “[An Eccentric Massive Jupiter Orbiting a Subgiant on a 9.5-day Period Discovered in the Transiting Exoplanet Survey Satellite Full Frame Images](#)” *The Astronomical Journal*, 157, 191 (2019).
205. Jones, Matías I. et al., **including Vanderburg, Andrew**. “[HD 2685 b: a hot Jupiter orbiting an early F-type star detected by TESS](#)” *Astronomy and Astrophysics*, 625, A16 (2019).
206. Rice, K. et al., **including Vanderburg, Andrew**. “[Masses and radii for the three super-Earths orbiting GJ 9827, and implications for the composition of small exoplanets](#)” *Monthly Notices of the Royal Astronomical Society*, 484, 3731 (2019).
207. Dragomir, Diana et al., **including Vanderburg, Andrew**. “[TESS Delivers Its First Earth-sized Planet and a Warm Sub-Neptune](#)” *The Astrophysical Journal Letters*, 875, L7 (2019).
208. Damasso, M. et al., **including Vanderburg, Andrew**. “[So close, so different: characterization of the K2-36 planetary system with HARPS-N](#)” *Astronomy and Astrophysics*, 624, A38 (2019).
209. Ansdell, M. et al., **including Vanderburg, Andrew**. “[The little dippers: transits of star-grazing exocomets?](#)” *Monthly Notices of the Royal Astronomical Society*, 483, 3579 (2019).
210. Kosiarek, Molly R. et al., **including Vanderburg, Andrew**. “[K2-291b: A Rocky Super-Earth in a 2.2 day Orbit](#)” *The Astronomical Journal*, 157, 116 (2019).
211. Bonomo, Aldo S. et al., **including Vanderburg, Andrew**. “[A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system](#)” *Nature Astronomy*, 3, 416 (2019).
212. Borkovits, T. et al., **including Vanderburg, Andrew**. “[Photodynamical analysis of the triply eclipsing hierarchical triple system EPIC 249432662](#)” *Monthly Notices of the Royal Astronomical Society*, 483, 1934 (2019).
213. Mortier, A. et al., **including Vanderburg, Andrew**. “[K2-263 b: a 50 d period sub-Neptune with a mass measurement using HARPS-N](#)” *Monthly Notices of the Royal Astronomical Society*, 481, 1839 (2018).
214. Yu, Liang et al., **including Vanderburg, Andrew**. “[EPIC 246851721 b: A Tropical Jupiter Transiting a Rapidly Rotating Star in a Well-aligned Orbit](#)” *The Astronomical Journal*, 156, 250 (2018).
215. Oláh, K. et al., **including Vanderburg, Andrew**. “[Eclipsing spotted giant star with K2 and historical photometry](#)” *Astronomy and Astrophysics*, 620, A189 (2018).

216. Rodriguez, Joseph E. et al., **including Vanderburg, Andrew.** “[A Compact Multi-planet System with a Significantly Misaligned Ultra Short Period Planet](#)” *The Astronomical Journal*, 156, 245 (2018).
217. Zeng, Li et al., **including Vanderburg, Andrew.** “[Survival function analysis of planet size distribution with Gaia Data Release 2 updates](#)” *Monthly Notices of the Royal Astronomical Society*, 479, 5567 (2018).
218. Yu, Liang et al., **including Vanderburg, Andrew.** “[Two Warm, Low-density Sub-Jovian Planets Orbiting Bright Stars in K2 Campaigns 13 and 14](#)” *The Astronomical Journal*, 156, 127 (2018).
219. Borkovits, T. et al., **including Vanderburg, Andrew.** “[EPIC 219217635: a doubly eclipsing quadruple system containing an evolved binary](#)” *Monthly Notices of the Royal Astronomical Society*, 478, 5135 (2018).
220. Damasso, M. et al., **including Vanderburg, Andrew.** “[Eyes on K2-3: A system of three likely sub-Neptunes characterized with HARPS-N and HARPS](#)” *Astronomy and Astrophysics*, 615, A69 (2018).
221. Zeng, Li et al., **including Vanderburg, Andrew.** “[Planet Size Distribution from the Kepler Mission and its Implications for Planet Formation](#)” *arXiv:1806.05909*.
222. Sandquist, Eric L. et al., **including Vanderburg, Andrew.** “[The K2 M67 Study: A Curiously Young Star in an Eclipsing Binary in an Old Open Cluster](#)” *The Astronomical Journal*, 155, 152 (2018).
223. Xu, S. et al., **including Vanderburg, Andrew.** “[A dearth of small particles in the transiting material around the white dwarf WD 1145+017](#)” *Monthly Notices of the Royal Astronomical Society*, 474, 4795 (2018).
224. Bayliss, D. et al., **including Vanderburg, Andrew.** “[HATS-36b and 24 Other Transiting/Eclipsing Systems from the HATSouth-K2 Campaign 7 Program](#)” *The Astronomical Journal*, 155, 119 (2018).
225. Malavolta, Luca et al., **including Vanderburg, Andrew.** “[An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141](#)” *The Astronomical Journal*, 155, 107 (2018).
226. Zhou, G. et al., **including Vanderburg, Andrew.** “[Occultations from an Active Accretion Disk in a 72-day Detached Post-Algol System Detected by K2](#)” *The Astrophysical Journal*, 854, 109 (2018).
227. Christiansen, Jessie L. et al., **including Vanderburg, Andrew.** “[The K2-138 System: A Near-resonant Chain of Five Sub-Neptune Planets Discovered by Citizen Scientists](#)” *The Astronomical Journal*, 155, 57 (2018).
228. Zeng, Li et al., **including Vanderburg, Andrew.** “[Survival Function Analysis of Planet Orbit Distribution and Occurrence Rate Estimate](#)” *arXiv:1801.03994*.
229. Boyajian, Tabetha. S. et al., **including Vanderburg, Andrew.** “[The First Post-Kepler Brightness Dips of KIC 8462852](#)” *The Astrophysical Journal Letters*, 853, L8 (2018).
230. Grunblatt, Samuel K. et al., **including Vanderburg, Andrew.** “[Seeing Double with K2: Testing Re-inflation with Two Remarkably Similar Planets around Red Giant Branch Stars](#)” *The Astronomical Journal*, 154, 254 (2017).
231. Dai, Fei et al., **including Vanderburg, Andrew.** “[The Discovery and Mass Measurement of a New Ultra-short-period Planet: K2-131b](#)” *The Astronomical Journal*, 154, 226 (2017).
232. Guenther, E. W. et al., **including Vanderburg, Andrew.** “[K2-106, a system containing a metal-rich planet and a planet of lower density](#)” *Astronomy and Astrophysics*, 608, A93 (2017).
233. Shporer, Avi et al., **including Vanderburg, Andrew.** “[K2-114b and K2-115b: Two Transiting Warm Jupiters](#)” *The Astronomical Journal*, 154, 188 (2017).
234. Bowler, Brendan P. et al., **including Vanderburg, Andrew.** “[The Young Substellar Companion ROXs 12 B: Near-infrared Spectrum, System Architecture, and Spin-Orbit Misalignment](#)” *The Astronomical Journal*, 154, 165 (2017).
235. Campante, Tiago L. et al., **including Vanderburg, Andrew.** “[Weighing in on the masses of retired A stars with asteroseismology: K2 observations of the exoplanet-host star HD 212771](#)” *Monthly Notices of the Royal Astronomical Society*, 469, 1360 (2017).

236. Malavolta, Luca et al., **including Vanderburg, Andrew**. “The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations” *The Astronomical Journal*, 153, 224 (2017).
237. Dressing, Courtney D. et al., **including Vanderburg, Andrew**. “Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. I. Classifying Low-mass Host Stars Observed during Campaigns 1-7” *The Astrophysical Journal*, 836, 167 (2017).
238. Rodriguez, Joseph E. et al., **including Vanderburg, Andrew**. “The Mysterious Dimmings of the T Tauri Star V1334 Tau” *The Astrophysical Journal*, 836, 209 (2017).
239. Gaidos, E. et al., **including Vanderburg, Andrew**. “Zodiacal exoplanets in time (ZEIT) - II. A ‘super-Earth’ orbiting a young K dwarf in the Pleiades Neighbourhood” *Monthly Notices of the Royal Astronomical Society*, 464, 850 (2017).
240. Grunblatt, Samuel K. et al., **including Vanderburg, Andrew**. “K2-97b: A (Re-?)Inflated Planet Orbiting a Red Giant Star” *The Astronomical Journal*, 152, 185 (2016).
241. Buchhave, Lars A. et al., **including Vanderburg, Andrew**. “A 1.9 Earth Radius Rocky Planet and the Discovery of a Non-transiting Planet in the Kepler-20 System” *The Astronomical Journal*, 152, 160 (2016).
242. López-Morales, Mercedes et al., **including Vanderburg, Andrew**. “Kepler-21b: A Rocky Planet Around a $V = 8.25$ Magnitude Star” *The Astronomical Journal*, 152, 204 (2016).
243. Leiner, Emily et al., **including Vanderburg, Andrew**. “The K2 M67 Study: An Evolved Blue Straggler in M67 from K2 Mission Asteroseismology” *The Astrophysical Journal Letters*, 832, L13 (2016).
244. Van Eylen, Vincent et al., **including Vanderburg, Andrew**. “The K2-ESPRINT Project V: A Short-period Giant Planet Orbiting a Subgiant Star*” *The Astronomical Journal*, 152, 143 (2016).
245. Rappaport, S. et al., **including Vanderburg, Andrew**. “A quintuple star system containing two eclipsing binaries” *Monthly Notices of the Royal Astronomical Society*, 462, 1812 (2016).
246. Mann, Andrew W. et al., **including Vanderburg, Andrew**. “Zodiacal Exoplanets in Time (ZEIT). III. A Short-period Planet Orbiting a Pre-main-sequence Star in the Upper Scorpius OB Association” *The Astronomical Journal*, 152, 61 (2016).
247. Rappaport, S. et al., **including Vanderburg, Andrew**. “Drifting asteroid fragments around WD 1145+017” *Monthly Notices of the Royal Astronomical Society*, 458, 3904 (2016).
248. Dai, Fei et al., **including Vanderburg, Andrew**. “Doppler Monitoring of Five K2 Transiting Planetary Systems” *The Astrophysical Journal*, 823, 115 (2016).
249. Erskine, David J. et al., **including Vanderburg, Andrew**. “High-resolution broadband spectroscopy using externally dispersed interferometry at the Hale telescope: Part 1, data analysis and results” *Journal of Astronomical Telescopes, Instruments, and Systems*, 2, 025004 (2016).
250. Yee, Jennifer C. et al., **including Vanderburg, Andrew**. “Two Stars Two Ways: Confirming a Microlensing Binary Lens Solution with a Spectroscopic Measurement of the Orbit” *The Astrophysical Journal*, 821, 121 (2016).
251. Mann, Andrew W. et al., **including Vanderburg, Andrew**. “Zodiacal Exoplanets in Time (ZEIT). I. A Neptune-sized Planet Orbiting an M4.5 Dwarf in the Hyades Star Cluster” *The Astrophysical Journal*, 818, 46 (2016).
252. Gettel, Sara et al., **including Vanderburg, Andrew**. “The Kepler-454 System: A Small, Not-rocky Inner Planet, a Jovian World, and a Distant Companion” *The Astrophysical Journal*, 816, 95 (2016).
253. Motalebi, F. et al., **including Vanderburg, Andrew**. “The HARPS-N Rocky Planet Search. I. HD 219134 b: A transiting rocky planet in a multi-planet system at 6.5 pc from the Sun” *Astronomy and Astrophysics*, 584, A72 (2015).
254. Dai, Fei et al., **including Vanderburg, Andrew**. “Doppler Monitoring of the WASP-47 Multiplanet System” *The Astrophysical Journal Letters*, 813, L9 (2015).

255. Muirhead, Philip S. et al., **including Vanderburg, Andrew**. “[Characterizing the Cool KOIs. VI. H- and K-band Spectra of Kepler M Dwarf Planet-candidate Hosts](#)” *The Astrophysical Journal Supplement Series*, 213, 5 (2014).
256. Ben-Ami, Sagi et al., **including Vanderburg, Andrew**. “[Discovery and Early Multi-wavelength Measurements of the Energetic Type Ic Supernova PTF12gzk: A Massive-star Explosion in a Dwarf Host Galaxy](#)” *The Astrophysical Journal Letters*, 760, L33 (2012).
257. Muirhead, Philip S. et al., **including Vanderburg, Andrew**. “[Precise Stellar Radial Velocities of an M Dwarf with a Michelson Interferometer and a Medium-Resolution Near-Infrared Spectrograph](#)” *Publications of the Astronomical Society of the Pacific*, 123, 709 (2011).

Non-refereed (1 first author, 8 total)

1. **Vanderburg, Andrew**. “[Reduced Light Curves from Campaign 0 of the K2 Mission](#)” *arXiv:1412.1827*.
2. Schmitt, Allan & **Vanderburg, Andrew**. “[LcTools II: The QuickFind Method for Finding Signals and Associated TTVs in Light Curves from NASA Space Missions](#)” *arXiv:2103.10285*.
3. Huang, Chelsea X.; **Vanderburg, Andrew**; et al. “[Photometry of 10 Million Stars from the First Two Years of TESS Full Frame Images: Part II](#)” *Research Notes of the American Astronomical Society*, 4, 206 (2020).
4. Huang, Chelsea X.; **Vanderburg, Andrew**; et al. “[Photometry of 10 Million Stars from the First Two Years of TESS Full Frame Images: Part I](#)” *Research Notes of the American Astronomical Society*, 4, 204 (2020).
5. Erskine, David J.; Muirhead, Philip S.; **Vanderburg, Andrew M.**; et al. “[Enhanced exoplanet biosignature detection from an interferometer addition to low resolution spectrographs](#)” *Ground-based and Airborne Instrumentation for Astronomy VII*, 10702, 107024G (2018).
6. Plavchan, Peter et al., **including Vanderburg, Andrew**. “[Radial Velocity Prospects Current and Future: A White Paper Report prepared by the Study Analysis Group 8 for the Exoplanet Program Analysis Group \(ExoPAG\)](#)” *arXiv:1503.01770*.
7. Edelstein, Jerry et al., **including Vanderburg, Andrew**. “[Enhanced spectral resolution via externally dispersed interferometry](#)” *Ground-based and Airborne Instrumentation for Astronomy IV*, 8446, 84464J (2012).
8. Erskine, David J. et al., **including Vanderburg, Andrew**. “[Ten-fold spectral resolution boosting using TEDI at the Mt. Palomar NIR Triplespec spectrograph](#)” *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, 8146, 81460M (2011).

Invited Review Chapters (1 first author, 1 total)

1. **Vanderburg, Andrew** & Rappaport, Saul A.. “[Transiting Disintegrating Planetary Debris Around WD 1145+017](#)” *Handbook of Exoplanets* edited by H.J. Deeg and J.A. Belmonte, Springer Reference Works (2017).

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