

Andrew Vanderburg

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Appointments

Assistant Professor of Physics at the Massachusetts Institute of Technology	July 2021 - present
<i>Bruno B. Rossi Career Development Chair</i>	<i>July 2024 - present</i>
Assistant Professor of Astronomy at The University of Wisconsin-Madison	August 2020 - August 2021
Research Associate at the Smithsonian Astrophysical Observatory	September 2017 - September 2020
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	Cambridge, MA
<i>Ph.D. Astronomy and Astrophysics (2017)</i>	<i>August 2013 - May 2017</i>
<i>A.M. Astronomy and Astrophysics (2015)</i>	
University of California, Berkeley	Berkeley, CA
<i>B.A. Physics and Astrophysics (2013)</i>	<i>August 2009 - May 2013</i>

Research Interests

The detection, characterization, and evolution of planetary systems in our galaxy, and the development of advanced statistical methods to enable these studies.

Awards

- 2024 Sloan Research Fellow
- 2024 NASA ExEP ExoGuide
- 2023 MIT Committed to Caring Mentoring Award
- 2022 Harvard Bok Prize Lecture
- 2021 Wisconsin Undergraduate Research Scholars Exceptional Mentorship Award
- 2020 Scialog Fellow
- 2019 NASA Silver Achievement Medal (as part of the TESS team, for the success of the mission)
- 2018 NASA Exceptional Public Achievement Medal (individual, for K2 public data products)
- 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: 317 total, 17 first author, 44 second author

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

Total Citations to Refereed Publications: 11689 total (1752 for first author papers), h-index = 54 (per Google Scholar)

Unrefereed Publications: 9 total, 1 as first author

Invited Review Chapters: 2 total, 1 as first author

Teaching and Advising

Classroom Experience

- Instructor (Fall 2023 and Fall 2024) and recitation instructor (Spring 2022 and Fall 2022) for Physics III (8.03) at MIT. This course, called “Waves and Vibrations,” is a part of the introductory sequence for physics majors.
- Instructor (Spring 2023 and Spring 2024) for graduate Astrophysics I (8.901) at MIT. This course covers the astrophysics of objects smaller than galaxies at the graduate student level.
- 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.
- 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

Postdocs

4. Emily Pass (Torres Fellow, MIT), September 2024-present.
3. Juliana García-Mejía (51 Pegasi b Fellow and Pappalardo Fellow, MIT), August 2023-present.
2. Javier Viaña (Botton Foundation Fellow, MIT), September 2022-present.
1. Melinda Soares-Furtado (Hubble Fellow, University of Wisconsin-Madison): March 2021-August 2024. Now faculty at the University of Wisconsin-Madison.

Graduate Students (as primary advisor)

6. Yadira Gaibor (MIT): June 2024-present.
5. Zoë de Beurs (MIT): June 2022-present.
4. Sydney Jenkins (MIT): January 2022-present.
3. Mariona Badenas-Agusti (MIT): August 2021-May 2024. Now postdoc at Cambridge University.
2. Lizhou Sha (University of Wisconsin-Madison): August 2020-present.
1. Robert Aloisi (University of Wisconsin-Madison): August 2020-present.

Graduate Students (as secondary advisor)

4. Aaron Householder (MIT): August 2024-present. AV is advising his second year project (Julien de Wit is his primary advisor).
3. Anne Dattilo (University of California, Santa Cruz): June 2023-present. AV is advising one chapter of her thesis (Natalie Batalha is her primary advisor).
2. Mary Anne Limbach (Texas A&M University). April 2021-May 2023. AV advised on one chapter of her thesis (Darren DePoy was her primary thesis advisor). Now research scientist at University of Michigan.

1. Liang Yu (MIT): June 2018-May 2019. AV advised the final chapter of her thesis (Ian Crossfield was her primary thesis advisor). Now AI Architect at BMW.

Undergraduate Students

25. Kaylee Barrera (MIT): June 2024-present, primarily advised by Sarah Blunt.
24. Sasha Sherstnev (MIT): June 2024-August 2024, primarily advised by Javier Viaña.
23. Nadja Aldarondo (University of Puerto Rico): June 2023-present, primarily advised by AV.
22. Gabrielle Ross (Princeton): June 2022-present, primarily advised by AV.
21. Naomi McWilliam (Imperial College London): July 2023-present, primarily advised by Zoë de Beurs.
20. Isabella Macias (University of Florida): June 2023-present, primarily advised by AV.
19. Mason Fang (MIT): September 2022-present, primarily advised by Javier Viaña.
18. Warit Wijitworasart (MIT): September 2021-August 2023, primarily advised by AV.
17. Panupong Phoompuang (MIT): September 2021-May 2021, primarily advised by AV.
16. Sam Christian (MIT): September 2021-present, primarily advised by AV.
15. Ben Capistrant (University of Wisconsin-Madison): May 2021-August 2022, primarily advised by Melinda Soares-Furtado.
14. Sarah Kubiak (University of Wisconsin-Madison): December 2020-March 2023, primarily advised by AV.
13. Drake Lehmann (University of Wisconsin-Madison): October 2020-May 2024, primarily advised by AV.
12. Elyse Incha (University of Wisconsin-Madison): August 2020-June 2023, primarily advised by AV.
11. Ben Steck (University of Wisconsin-Madison): August 2020-May 2021, primarily advised by AV.
10. Ben Havlicek (University of Wisconsin-Madison): August 2020-December 2020, primarily advised by AV.
9. Alex Venner (Aberystwyth University): January 2020-September 2022, primarily advised by AV.
8. Maura Lally (Northwestern University): June 2019-March 2022, primarily advised by AV.
7. Zoë de Beurs (University of Texas at Austin): September 2018-July 2022, primarily advised by AV.
6. Aditya Shah (University of Texas at Austin): August 2018-May 2019, primarily advised by AV.
5. Gerlinder Difo Cheri (University of the Virgin Islands). June-August 2018, primarily advised by AV.
4. Anne Dattilo (University of Texas at Austin): Dec 2017-August 2019, primarily advised by AV.
3. Rayna Rampalli (Wellesley College): June 2017-May 2019. Summer internship (primarily advised by AV) and senior thesis (advised by D. Latham, assisted by AV).
2. Clea Schumer (Harvard College): October 2016-August 2017, Primarily advised by AV.
1. 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).

Service

Professional Service

- **Referee for peer-reviewed journals:** *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*, *The Physics Teacher*, and *Publications of the Astronomical Society of Australia*.
- **Conference Organizing Committee Membership:** “Exoplanet Systems and Stellar Life Cycles: Late-Stage and Post-MS Systems” conference (2023).
- **Steering Committee Membership:** *NASA Extreme Precision Radial Velocity Research Coordination Network* and *NASA Nexus for Exoplanet System Science (NExSS)*.
- **Panelist for NASA mission operational reviews:** *NASA Review of Rapid Release of TESS Data Products* and *NASA Tabletop Review of K2 mission data products*.
- **Telescope Time Allocation Committee membership:** *Four years for an international space telescope*, *three semesters for a national ground-based telescope*, *external expert reviewer for two international proposal organizations*.
- **Grant/Funding proposal review panels:** *Member of three US review panels and external reviewer for three international funding agencies*.
- **Fellowship Reviews:** *Panelist for one US national postdoctoral fellowship*, *reviewer in three US postdoctoral fellowship calls*, and *external reviewer for one international postdoctoral fellowship*. *Reviewer for 6 US graduate fellowship calls*.
- **Working group membership for the NASA Transiting Exoplanet Survey Satellite (TESS) mission:** *TESS Follow-up Working Group (TFOP, 2017–present)*, *TESS TOI Working Group (2017–present)*, *TESS Extended Mission Working Group (2018–2019)*, *TESS Science Office (2018–present)*, *TESS Machine Learning/Astronet Working Group (2019–present)*, *TESS Pipelines Working Group (2024)*, *TESS Identity, Diversity, Equity, and Accessibility (IDEA) working group (2024–present)*.
- **Working group membership for the NASA Kepler/K2 mission:** *Kepler False Positive Working Group (2017–2020)* and *Kepler Reliability Working Group (2017–2018)*.
- **Poster Competition Judge:** *4 conferences since 2016*.
- **Public Release of Data Products:** *PI of K2SFF High Level Science Product* hosted at STScI. *Produced and released over 200,000 light curves, making this the most complete collection of public K2 light curves available (2014–2020)*.

Department Service

- **Committee Membership** *Six postdoctoral selection committees*, *one graduate admission committee*, *one REU admission committee*, *one department award selection committee*, *three years on a colloquium committee*, *three semesters on a telescope time allocation committees*, *two promotion committees*, *one coursework evaluation committee*, *five semesters of oral qualification exam committees*, *one written qualification exam committee*, *one strategic planning committee*.
- **Department Representation** *Served as MIT’s Alternate Member Representative to the Association of Universities for Research in Astronomy (AURA)*.
- **Event Organization** *Organized a seminar for first/second-year astrophysics graduate students at MIT to help introduce the students to the department*. *Founded and organized ExoUpdate, a weekly group meeting for exoplanet researchers in the University of Texas Astronomy department (2017–2020)*. *Participated as a core group organizer of the University of Texas Pop-Up Institute for Planetary Habitability (2018)*.

Public Outreach Activities

- **Panelist:** *Massachusetts Space Week, South by Southwest.*
- **Outreach Talks:** *Presentations at McDonald Observatory Special Viewing Nights ($\times 3$), San Jose Astronomical Association, University of Wisconsin-Madison Astronomy Virtual Lecture, Search for Extra-Terrestrial Intelligence (SETI) Institute ($\times 3$), Astronomy on Tap Austin, Amateur Telescope Makers of Boston, Skyscrapers Astronomical Society of Rhode Island AstroAssembly.*
- **Volunteering:** *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.*
- **Telescope outreach:** *Docent at the Harvard-Smithsonian Center for Astrophysics Observatory Nights (2015-2017), Harvard Observing Project (2013-2017).*

Talks/Presentations

Invited conference talks

15. Vanderburg, Andrew “Learning About our Planetary Neighbors with the Help of Artificial Intelligence” World Artificial Intelligence Conference, presented remotely, July 4, 2024.
14. Vanderburg, Andrew “Challenges and Opportunities of Re-observing the Kepler Field” International Space Science Institute in Beijing, presented remotely, June 23, 2024.
13. Vanderburg, Andrew “Enhancing Exoplanet Discovery with Deep Learning: Progress and Paths Forward” Dynamic Data Driven Applications Systems (DDDAS), Cambridge, MA, October 8, 2022.
12. 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.
11. 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>.
10. 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.
9. 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.
8. 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=FjOJu8UtdE>.
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.
6. Vanderburg, Andrew “Benchmark Exoplanet Systems Discovered by the K2 Mission” Kepler & K2 Science Conference V, Glendale, CA, Mar. 5, 2019.
5. 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>.
4. Vanderburg, Andrew “The Pathway towards Characterizing Exoplanets” University of Texas Pop-Up Institute on Planetary Habitability, Austin, TX, July 10, 2018.
3. Vanderburg, Andrew “K2’s contribution to Opportunity M” Opportunity M Conference, Cambridge, MA, August 30, 2016.

2. Vanderburg, Andrew “Searching for Planets with K2” Big Data@Tel Aviv Conference, Tel Aviv, Israel, December 14, 2015.
1. 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

41. Vanderburg, Andrew “Towards Habitable Worlds: Detailed characterization of the nearest planetary systems” UC Berkeley Astronomy Colloquium, Sept 19, 2024
40. Vanderburg, Andrew “Are we looking for exomoons in all the wrong places?” UC Berkeley Astronomy Lunch Talk, Sept 19, 2024.
39. Vanderburg, Andrew “Getting to Know the Neighbors: Detailed Characterization of our Nearest Planetary Systems” Space Telescope Science Institute/Johns Hopkins Joint Colloquium, Baltimore, MD, May 15, 2024.
38. Vanderburg, Andrew “Getting to Know the Neighbors: Detailed Characterization of our Nearest Planetary Systems” MIT Earth and Planetary Sciences Department Lecture Series, Cambridge, MA, Feb 20, 2024.
37. 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.
36. 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.
35. 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.
34. 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>.
33. 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.
32. 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.
31. 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.
30. 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.
29. 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.
28. Vanderburg, Andrew “An Overview of the K2 Mission” MIT TESS Science Talk, presented remotely due to COVID-19, July 7, 2021.
27. 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.
26. 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.
25. 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.
24. 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.

23. 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.
22. 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.
21. Vanderburg, Andrew et al. “A Giant Planet Candidate Transiting a White Dwarf” Princeton Exoplanet Lunch, presented remotely due to COVID-19, May 4, 2020
20. 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.
18. 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.
17. 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.
16. 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.
15. 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.
14. Vanderburg, Andrew. “A Disintegrating Minor Planet Transiting a White Dwarf.” TAURUS Summer Seminar series, Austin, TX, Jul. 17, 2018.
13. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” Lowell Observatory Colloquium, Flagstaff, AZ, Mar. 8, 2018.
12. 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.
11. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” Harvard-Smithsonian Center for Astrophysics, Dissertation Colloquium, Cambridge, MA, May 2, 2017.
10. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” Vanderbilt University Seminar, Nashville, TN, November 4, 2016.
9. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” MIT Astrophysics Brown-Bag Lunch Seminar, Cambridge, MA, October 31, 2016.
8. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” IPAC Seminar, Pasadena, CA, October 28, 2016.
7. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” Penn State CEHW Seminar, State College, PA, October 10, 2016.
6. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” UC Santa Cruz FLASH Seminar, Santa Cruz, CA, September 23, 2016.
5. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” UC Berkeley CIPS Seminar, Berkeley, CA, September 21, 2016.
4. Vanderburg, Andrew et al. “Searching for Planets with K2” NASA Ames Research Center, Moffett Field, CA, April 21, 2016.
3. Vanderburg, Andrew et al. “Searching for Planets with K2” Space Telescope Science Institute Star and Planet Formation Seminar, Baltimore, MD, April 8, 2016.

2. Vanderburg, Andrew et al. “Searching for Planets with K2” University of Texas ISM Seminar, Austin, TX, January 29, 2016.
1. Vanderburg, Andrew et al. “Characterizing K2 Planet Discoveries” Boston University Astronomy Tuesday Lunch Talk, March 2, 2015.

Contributed conference talks

28. Vanderburg, Andrew et al. “Prospects for Life after Stellar Death,” 51 Pegasi b Fellowship Summit, Sausalito, CA, August 7, 2024.
27. Vanderburg, Andrew et al. “The MIRI Exoplanets Orbiting White Dwarfs (MEOW) Survey: Early Results and Planet Candidates”, 23rd European White Dwarf Workshop, Barcelona, Spain, July 12, 2024.
26. Vanderburg, Andrew et al. “The MIRI Exoplanets Orbiting White Dwarfs (MEOW) Survey: Early Results and Planet Candidates”, Extreme Solar Systems V, Christchurch, New Zealand, March 19, 2024.
25. Vanderburg, Andrew et al. “Searching for Planetary Systems around White Dwarfs”, 243rd American Astronomical Society meeting, New Orleans, LA, January 11, 2024.
24. Vanderburg, Andrew et al. “Towards routine exomoon discoveries with next-generation telescopes,” 51 Pegasi b Fellowship Summit, Sausalito, CA, August 8, 2023.
23. 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>.
22. 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.
21. 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>.
20. 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
19. 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
18. Vanderburg, Andrew et al. “Planet Occurrence in the M67 Open Cluster” 235th American Astronomical Society Meeting, Honolulu, HI, January 5, 2020
17. Vanderburg, Andrew et al. “Planet Occurrence in the M67 Open Cluster” NASA Hubble Fellowship Program Symposium, Washington D.C., October 21, 2019
16. 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
15. Vanderburg, Andrew et al. “Detecting Exomoons via Doppler Monitoring of Directly Imaged Exoplanets” Bay Area Exoplanets Meeting, Moffett Field, CA, March 1 2019
14. 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
13. 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

11. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” 231st American Astronomical Society Meeting, National Harbor, MD, January 12, 2018
10. Vanderburg, Andrew et al. “WASP-47 and the Origin of Hot Jupiters” Bay Area Exoplanets Meeting, Moffett Field, CA, November 30 2017
9. Vanderburg, Andrew et al. “Towards Better Planet Occurrence Rates from Kepler and K2” NASA Sagan/Michelson Fellows Symposium, Pasadena, CA, November 9, 2017
8. 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
7. 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
6. Vanderburg, Andrew et al. “Precise Masses in the WASP-47 System” 230th American Astronomical Society Meeting, Austin, TX, June 8, 2017
5. Vanderburg, Andrew et al. “The Past, Present, and Future of Planetary Systems” 229th American Astronomical Society Meeting, Grapevine, TX, January 7, 2017
4. Vanderburg, Andrew et al. “A Disintegrating Minor Planet Transiting a White Dwarf” Bay Area Exoplanets Meeting, Moffett Field, CA, September 30, 2016.
3. Vanderburg, Andrew et al. “Planetary Candidates from the First Year of the K2 Mission” 227th American Astronomical Society Meeting, Kissimmee, FL, January 5, 2016
2. Vanderburg, Andrew et al. “A Disintegrating Minor Planet Transiting a White Dwarf” K2 Science Conference, Santa Barbara, CA, November 4, 2015.
1. Vanderburg, Andrew et al. “Characterizing K2 Planet Discoveries” 225th American Astronomical Society Meeting, Seattle, WA, January 5, 2015.

Public/Outreach talks

18. Vanderburg, Andrew “ExoGuide Talk’ ExoExplorers ExoGuide seminar, presented remotely, May 20, 2024.
17. Vanderburg, Andrew; Hoffman, Jeffrey; Knapp, Mary “Men In Black + Expert Panel on Astrobiology” Massachusetts Space Week, Cambridge, MA, April 20, 2024.
16. Vanderburg, Andrew “Meeting our Nearest Planetary Neighbors – and a Glimpse of the Solar System’s Ultimate Fate – with NASA’s TESS Mission”, San Jose Astronomical Association General Meeting, September 2, 2023, presented remotely.
15. Vanderburg, Andrew; Zhang, Coco. “Earth 2.0” UW-Madison Astronomy’s Virtual Lecture, May. 4, 2021, presented remotely due to COVID-19.
14. 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>.
13. Vanderburg, Andrew; Marchis, Franck. “Planet Orbits Stellar Corpse.” SETI Live, Sept. 24, 2020, <https://www.youtube.com/watch?v=AdfL8QfJdJA>
12. 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>
11. Vanderburg, Andrew “Putting the Solar System in a Galactic Context.” Wisconsin Board of Visitors Meeting, presented remotely due to COVID-19. Sept. 4, 2020.
10. 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>
9. 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.
7. 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.
6. 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.
5. 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.
4. 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.
3. Vanderburg, Andrew “A Disintegrating Minor Planet Transiting a White Dwarf” McDonald Observatory Special Viewing Night, Ft. Davis, TX, Jan. 31, 2018.
2. Vanderburg, Andrew “A Disintegrating Minor Planet Transiting a White Dwarf” Amateur Telescope Makers of Boston monthly meeting, Cambridge, MA, Dec. 8, 2016.
1. Vanderburg, Andrew “Kepler’s Second Chance” SkyScrapers Inc. Astronomical Society of Rhode Island annual AstroAssembly, North Scituate, RI, Oct. 3, 2015.

Poster Presentations

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

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315. **Vanderburg, Andrew** et al. “[A Habitable-zone Earth-sized Planet Rescued from False Positive Status](#)” *The Astrophysical Journal Letters*, 893, L27 (2020).

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