

CURRICULUM VITAE:

**KEIVAN GUADALUPE STASSUN**

Vanderbilt University, Department of Physics & Astronomy

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**DEGREES EARNED**

***University of Wisconsin—Madison***

Degree: Ph.D. in Astronomy, 2000

Thesis: *Rotation, Accretion, and Circumstellar Disks among Low-Mass Pre-Main-Sequence Stars*

Advisor: Robert D. Mathieu

***University of California at Berkeley***

Degree: A.B. in Physics/Astronomy (double major) with Honors, 1994

Thesis: *A Simultaneous Photometric and Spectroscopic Variability Study of Classical T Tauri Stars*

Advisor: Gibor Basri

**EMPLOYMENT HISTORY**

***Vanderbilt University***

Professor of Management, Owen Graduate School of Business and Management, 2023-present

Founder and Director, Frist Center for Autism & Innovation, 2018-present

Professor of Computer Science, School of Engineering, 2018-present

Stevenson Endowed Professor of Physics & Astronomy, College of Arts & Science, 2016-present

Senior Associate Dean for Graduate Education & Research, College of Arts & Science, 2015-18

Harvie Branscomb Distinguished Professor, 2015-16

Professor of Physics and Astronomy, 2011-16

Director, Vanderbilt Initiative in Data-intensive Astrophysics (VIDA), 2007-present

Founder and Director, Fisk-Vanderbilt Masters-to-PhD Bridge Program, 2004-15

Associate Professor of Physics and Astronomy, 2008-11

Assistant Professor of Physics and Astronomy, 2003-08

***Fisk University***

Adjoint Professor of Physics, 2006-present

***University of Wisconsin—Madison***

NASA Hubble Postdoctoral Research Fellow, Astronomy, 2001-03

Area: *Observational Studies of Low-Mass Star Formation*

Mentor: Robert D. Mathieu

***University of Wisconsin—Madison***

Assistant Director and Postdoctoral Fellow, NSF Graduate K-12 Teaching Fellows Program, 2000-01

Duties: *Development of fellowship program, instructor for graduate course in science education research*

Mentor: Terrence Millar

**HONORS AND AWARDS**

Member of the American Academy of Arts and Sciences—2023-present

Legacy Fellow of the American Astronomical Society—2020-present

Research Corporation for Science Advancement IMPACT Award—2019

Presidential Award for Excellence in Science, Math, and Engineering Mentoring—2018

AAAS Mentor of the Year—2018  
HHMI Professor—2018-23  
Research Corporation for Science Advancement SEED Award—2017  
Fellow of the American Physical Society—2016-present  
Research Corporation for Science Advancement TREE Award—2015  
Diversity Visionary Award, Insight into Diversity—2015  
American Physical Society Nicholson Medal for Human Outreach—2013  
Fellow of the American Association for the Advancement of Science—2012-present  
Martin Luther King Distinguished Visiting Professor, Massachusetts Institute of Technology—2011-12  
Marsico Distinguished Visiting Scholar, University of Denver—2010  
Fletcher Foundation Fellow (prize for significant work advancing race relations)—2009-10  
Caroline Herschel Distinguished Visiting Scholar, Space Telescope Science Institute—2007-08  
Ford Foundation Sabbatical Fellowship—2007-08  
Chancellor's Award for Faculty Research, Vanderbilt University—2007  
Research Corporation Cottrell Scholar Award, Vanderbilt University—2006-10  
Vanderbilt Affirmative Action and Diversity Initiatives Award, Vanderbilt University—2005  
NSF Career Award, Vanderbilt University—2004-11  
NASA Hubble Postdoctoral Fellowship, UW Madison—2001-03  
NSF Astronomy and Astrophysics Postdoctoral Fellowship (declined)—2001  
Ford Foundation Minority Postdoctoral Fellowship (declined)—2001  
NSF GK-12 Postdoctoral Fellowship, UW Madison—2000-01  
Minority Scholar-In-Residence, UW Madison—2000-01  
Ford Foundation Minority Dissertation Fellowship, UW Madison—1999-2000  
University of Wisconsin Graduate Fellowship, UW Madison—1998-99  
NSF Graduate Research Fellowship, UW Madison—1995-98  
Valedictorian, Physics/Astronomy, UC Berkeley—1994  
Dorothy K. Roberts Prize for Outstanding Achievement in Astronomy, UC Berkeley—1994  
Chancellor's Scholar, UC Berkeley—1990-94

## **LEADERSHIP AND SERVICE**

Member, National Science Board—2023-present  
Member, National Academy of Sciences Space Studies Board—2023-present  
Member, Steering Committee, AAAS Section D (Astronomy)—2023-present  
Member, National Academy of Sciences Roundtable on Mentorship, Well-being, and Professional Development, 2023-present  
Member, Argonne National Laboratory External Visiting Committee, 2023  
Member, External Visiting Committee, Department of Astrophysical Sciences, Princeton University, 2023  
Member, Astronomy & Astrophysics Advisory Committee (AAAC)—2022-23  
Member, National Academy of Sciences Committee on Increasing Diversity and Inclusion in the Leadership of Competed Space Missions—2021-22  
Member, NASA Committee to Review the Hubble Fellowship Program—2021  
Member, National Academy of Sciences Astro2020 Decadal Review Steering Committee—2019-21  
Presidential Line, Society of Senior Ford Fellows—2019-20  
Chair, Sloan Digital Sky Survey V Executive Committee—2019-22  
Member, National Academies Committee to Review the NASA Science Plan—2019  
Member, Scientific Organizing Committee, TESS Asteroseismology Consortium Conference—2019-20  
Advisory Board Member, Auticon Corporation—2018-22  
Member, National Academies Committee on Underrepresentation of Women in STEM—2018-19  
Member, National Science Foundation Committee of Visitors Division of Graduate Education, 2018

Member, National Academies Committee on the Science of Effective Mentoring in STEM—2017-19  
 Co-chair, Senior Ford Foundation Fellows Organizing Committee—2016-18  
 Invited Member, American Astronomical Society Committee on Graduate Student Diversity—2017-18  
 Co-chair, Vanderbilt University Chancellor's Committee on Diversity, Inclusion, and Community—2015-16  
 Member, White House STEM Initiative—2015  
 Member, Keck Observatory Steering Committee—2015-16  
 Member, AAAS Blue Ribbon Committee on STEM Education—2015-16  
 Chair, Sloan Digital Sky Survey IV Executive Committee—2013-22  
 Elected Member, Board of Directors, American Physical Society—2013-15  
 Elected Member, ad hoc Committee on APS Corporate Reform, American Physical Society—2013-15  
 Steering Committee Member, Chancellor's Task Force on Educational Technologies, Vanderbilt—2013  
 Advisory Council Member, Vanderbilt Institute for Digital Learning—2013-17  
 Co-Investigator, NASA Transiting Exoplanet Survey Satellite (TESS)—2012-present  
 Member, Scientific Organizing Committee, Conference on the Analysis of Binary Stars—2012-13  
 Chair, Committee on the Participation of Minorities, Sloan Digital Sky Survey—2013-20  
 Chair, Physics & Astronomy Department Committee on Research, Rankings and Awards—2012-present  
 Chair, Committee on Diversity and the Future of the Workforce, AURA—2012-15  
 Invited Member, NSF Blue Ribbon Panel on CAREER Awards Program—2012  
 General Councillor, American Physical Society—2011-15  
 Member, NSF Committee on Equal Opportunity in Science and Engineering (CEOSE)—2011-15  
 Member, Scientific Organizing Committee, Ringberg Conference on Brown Dwarfs—2011-12  
 Member, Scientific Organizing Committee, 17<sup>th</sup> Conference on Cool Stars and the Sun—2011-12  
 Invited witness, US House of Representatives Committee on Science and Technology—March 2010  
 Chair, Survey Science Team, Sloan Digital Sky Survey III MARVELS project—2010-14  
 Member, Sloan Digital Sky Survey III Executive Committee—2010-14  
 Vice Chair, Large Synoptic Survey Telescope, Astrominformatics Science Working Group—2010-15  
 Institutional Representative, Large Synoptic Survey Telescope—2009-15  
 Astro2010 Decadal Survey, State of the Profession Study Group, National Research Council—2009-10  
 Graduate Education Task Force, Vanderbilt University—2008-09  
 Visiting Committee, National Optical Astronomy Observatories—2008-09  
 Executive Committee, Vanderbilt Center for Integration of Research Teaching and Learning—2008-15  
 Organizing Committee, Conference of Ford Fellows—2007-09  
 Congressional FACA Astronomy and Astrophysics Advisory Committee—2006-09  
 External Review of Associated Universities for Research in Astronomy, National Science Foundation—2006  
 Committee of Visitors, NSF Astronomy Division—2005  
 Executive Board, NSF-funded Institute for Broadening Participation—2005-16  
 Co-Director, Fisk Astronomy and Space Science Training (FASST) program—2004-present  
 Organizing Committee, National Society of Black Physicists Annual Conference—2004-13  
 Content Adviser, NASA PlanetQuest Español website, 2005  
 Organizing Committee, NASA Chicago 2004 Conference on Diversity—2004  
 Faculty Mentor, NSF Astronomy & Astrophysics Postdoctoral Fellows Program—2004-05  
 Session Organizer, SACNAS Annual Conference—2003-present  
 Chair, American Astronomical Society Committee on Status of Minorities in Astronomy—2003-08  
 Editor, American Astronomical Society *Spectrum* Newsletter on Diversity in the Sciences—2002-08  
 Content Adviser, Astronomical Society of the Pacific's "El Universo a Sus Pies" Project—2001  
 Director, *Scopes for Schools* astronomy outreach program—1998-present  
 Proposal Reviewer: NSF, NASA, Keck Observatory  
 Manuscript referee: *Astrophysical Journal*, *Astronomical Journal*, *Astronomy & Astrophysics*, *Nature*

**STUDENTS AND POSTDOCS ADVISED*****Former postdoctoral associates placed in academic research positions:***

1. David James (staff researcher at Harvard-Smithsonian Center for Astrophysics)
2. Erika Grundstrom (director of astronomy laboratories at Vanderbilt University)
3. Leslie Hebb (associate professor at Hobart & William Smith College)
4. Joshua Pepper (associate professor at Lehigh University)
5. Nathan De Lee (associate professor at University of Northern Kentucky)
6. Martin Paegert (staff researcher at Harvard-Smithsonian Center for Astrophysics)
7. Rodolfo Montez (staff scientist at Harvard Chandra X-ray Center)
8. Richard Galvez (future faculty fellow at New York University)
9. Natalie Hinkel (staff scientist at Southwest Research Institute)
10. Caleb Wheeler (staff scientist at Arizona State University)
11. Karen Collins (staff scientist at Harvard-Smithsonian Center for Astrophysics)
12. Jedidah Isler (assistant professor at Dartmouth College)
13. Fernanda Elliott (assistant professor at Grinnell College)
14. Jon Bird (research assistant professor at Vanderbilt University)
15. Ryan Oelkers (staff scientist at NASA MSFC)
16. Nina Hernitschek (assistant professor at Universidad de Chile)
17. Marina Kounkel (assistant professor at University of North Florida)

***PhDs completed:***

1. Alicia Aarnio, PhD 2010 (assistant professor at University of North Carolina, Greensboro)
2. Phillip Cargile, PhD 2010 (research scientist at Harvard Center for Astrophysics)
3. Yilen Gomez Maqueo Chew, PhD 2010 (associate professor at UNAM Mexico City)
4. Saurav Dhital, PhD 2012 (research scientist at Embry Riddle Aeronautical University)
5. Thompson LeBlanc, PhD 2013 (data scientist at Hospital Corporation of America)
6. Julia Bodnarik, PhD 2013 (research scientist at University of Arizona)
7. Deatrick Foster, PhD 2013 (staff scientist at Naval Research Laboratory)
8. Fabienne Bastien, PhD 2014 (assistant professor at Penn State University)
9. Trey Mack, PhD 2014 (postdoc at AIP, Potsdam, Germany)
10. Victor Garcia, PhD 2016 (postdoc at Lawrence Livermore National Lab)
11. Joey Rodriguez, PhD 2016 (assistant professor at Michigan State University)
12. Brenden Wiggins, PhD 2016 (staff scientist at Los Alamos National Lab)
13. David Caudel, PhD 2017 (executive director of Vanderbilt Center for Autism & Innovation)
14. Michael Lund, PhD 2017 (postdoc at Caltech)
15. Kyle Conroy, PhD 2018 (postdoc at Villanova University)
16. Rose Perea, PhD 2019 (NRC postdoc fellow at Naval Research Lab)
17. Robert Siverd, PhD 2019 (research scientist at Gemini North Observatory)
18. Teresa Monsue, PhD 2019 (postdoc at NASA GSFC)
19. Savannah Jacklin, PhD 2020 (staff scientist at Northrup Grumman Corporation)
20. Samaiyah Farid, PhD 2020 (postdoc at Yale University)
21. Ardelia Clarke, PhD 2020 (staff scientist at Pacific Northwest National Lab)
22. Laura Vega, PhD 2021 (postdoc at NASA GSFC)
23. George Vejar, PhD 2022 (data scientist in private industry)
24. Dax Feliz, PhD 2022 (postdoctoral fellow at Flatiron Center for Computational Astrophysics)

***Postdoctoral associates supervised:***

1. Girish Duvvuri (Vanderbilt University)—2023-
2. Joseph Mullen (Vanderbilt University)—2023-
3. Alexander Stephan (Vanderbilt University)—2023-
4. Ilija Medan (Vanderbilt University)—2023-

5. William Grimble (Vanderbilt University)—2023-
6. Lyra Cao (Vanderbilt University)—2023-
7. Marina Kounkel (Vanderbilt University)—2021-23
8. Nina Hernitschek (Vanderbilt University)—2019-23
9. David Caudel (Vanderbilt University)—2017-19
10. Fernanda Elliott (Vanderbilt University)—2017-20
11. Natalie Hinkel (Vanderbilt University)—2016-18
12. Garrett Somers (Vanderbilt University)—2016-19
13. Caleb Wheeler (Fisk University)—2016-18
14. Ryan Oelkers (Vanderbilt University)—2016-19
15. Jedidah Isler (Vanderbilt University)—2015-18
16. Karen Collins (Vanderbilt University)—2015-18
17. Jonathan Bird (Vanderbilt University)—2014-19
18. Emmanuel Rowe (Fisk University)—2013-18
19. Rodolfo Montez (Vanderbilt University)—2012-16
20. Nathan De Lee (Vanderbilt University)—2011-13
21. Phillip Cargile (Vanderbilt University)—2010-14
22. Leslie Hebb (Vanderbilt University)—2009-13
23. Martin Paegert (Vanderbilt University)—2009-15
24. Ian Nieves (Fisk University)—2009-11
25. Joshua Pepper (Vanderbilt University)—2007-13
26. Erika Grundstrom (Vanderbilt University)—2007-10
27. David James (Vanderbilt University)—2004-08

***PhD dissertations supervised, dissertation committees chaired:***

1. Jessica Stasik (Vanderbilt University)—2020-present
2. Don Dixon (Vanderbilt University)—2019-present
3. Richard Nederlander (Vanderbilt University)—2018-23
4. Robert Siverd (Vanderbilt University)—2018-20
5. Dax Feliz (Vanderbilt University)—2018-22
6. Stefan Laos (Vanderbilt University)—2017-21
7. George Vejar (Vanderbilt University)—2017-22
8. George Cooper (Vanderbilt University, ORNL Graduate Research Fellow)—2017-20
9. Savannah Jacklin (Vanderbilt University, IPAC/Caltech Graduate Research Fellow)—2017-20
10. Ardelia Clarke (Vanderbilt University, PNNL Graduate Research Fellow)—2016-20
11. Joseph Bell (Vanderbilt University, Y-12 Graduate Research Fellow)—2016-20
12. Laura Vega (Vanderbilt University, NASA Graduate Research Fellow)—2016-21
13. Samaiyah Farid (Vanderbilt University, Smithsonian Graduate Research Fellow)—2014-20
14. Teresa Monsue (Vanderbilt University, NASA Graduate Research Fellow)—2013-18
15. Rose Perea (Vanderbilt University)—2013-19
16. Joseph Rodriguez (Vanderbilt University)—2013-16
17. Brenden Wiggins (Vanderbilt University, Y-12 Graduate Research Fellow)—2013-17
18. David Caudel (Vanderbilt University)—2012-17
19. Kyle Conroy (Vanderbilt University, NASA Graduate Research Fellow)—2012-18
20. Victor Garcia (Vanderbilt University, Lowell Graduate Research Fellow)—2012-16
21. Michael Lund (Vanderbilt University)—2012-17
22. Fabienne Bastien (Vanderbilt University, NASA Graduate Research Fellow)—2010-14
23. Trey Mack (Vanderbilt University, NASA Graduate Research Fellow)—2009-14
24. Julia Bodnarik (Vanderbilt University, NASA Co-op Fellow)—2007-13
25. Deatrick Foster (Vanderbilt University, NASA Graduate Research Fellow)—2007-13
26. Thompson LeBlanc (Vanderbilt University, NASA Graduate Research Fellow)—2006-13

27. Saurav Dhital (Vanderbilt University)—2006-12
28. Phillip Cargile (Vanderbilt University)—2005-10
29. Alicia Aarnio (Vanderbilt University)—2005-10
30. Yilen Gomez Maqueo Chew (Vanderbilt University)—2004-10

***PhD dissertations committees served:***

1. Deeksha Adiani (Vanderbilt University)—2023-
2. Victor Calderon (Vanderbilt University)—2014-20
3. Bernadette Cogswell (Vanderbilt University)—2013-14
4. Brittany Kamai (Vanderbilt University, NSF Graduate Research Fellow)—2011-16
5. Matthew Richardson (Vanderbilt University)—2011-16
6. Heather Cegla (Queen’s University Belfast)—2010-13
7. Matt McCrumb (Queen’s University Belfast)—2010-12
8. Cullen Blake (Harvard University)—2009
9. Ebonee Walker (Vanderbilt University)—2008-12
10. Sonali Shukla (Vanderbilt University)—2007-09

***MA theses supervised, thesis committees chaired:***

1. Quadry Chance (Fisk University)—2018-20
2. Brianna Galgano (Fisk University)—2018-20
3. Amber Britt (Fisk University)—2017-19
4. Don Dixon (Fisk University)—2017-19
5. Joni Cunningham (Fisk University)—2017-19
6. Dax Feliz (Fisk University)—2016-18
7. George Cooper (Fisk University)—2015-17
8. George Vejar (Fisk University)—2015-17
9. Savannah Jacklin (Fisk University)—2015-17
10. Karl Jaehnig (Fisk University)—2015-17
11. Laura Vega (Fisk University)—2014-16
12. Joanna Egnor (Fisk University)—2014-16
13. Joseph Rodriguez (Fisk University)—2012-13
14. Aaron Juarez (Fisk University)—2012-14
15. Charee Peters (Fisk University)—2011-13
16. Rose Perea (Fisk University)—2011-13
17. Teresa Monsue (Fisk University)—2011-13
18. Dan Burger (Vanderbilt University)—2011-13
19. Eugenio Garcia (Fisk University)—2010-12
20. Fabienne Bastien (Fisk University)—2008-10
21. Felipe Colazo (Fisk University)—2008-10
22. Sharina Haynes (Fisk University)—2008-10
23. Brittany Kamai (Fisk University)—2008-11
24. Erica Morgan (Fisk University)—2008-11
25. Matthew Richardson (Fisk University)—2008-10
26. Trey Mack (Fisk University)—2007-09
27. Melissa Harrison (Fisk University)—2005-07
28. Jedidah Isler (Fisk University)—2005-07
29. Julia Bodnarik (Fisk University)—2005-07
30. Luisa Zambrano (Fisk University)—2005-06
31. Helen Jackson (Fisk University)—2004-06
32. Tomas Yan (Fisk University)—2004-07
33. Thompson LeBlanc (Fisk University)—2004-06

**MA thesis committees served:**

1. Jonathan Florez (Fisk University)—2014
2. Michael Williams (Fisk University)—2011
3. Jessica Harris (Fisk University)—2010
4. Lauren Palladino (Fisk University)—2009
5. Desmond Campbell (Fisk University)—2008
6. Ariel Ruffin (Fisk University)—2007

**BA honors theses supervised, thesis committees chaired:**

1. Samantha Bianco (Vanderbilt University)—2019-22
2. Alyson Hughes (Vanderbilt University)—2018-20
3. Sebastian Lende (Vanderbilt University)—2018-20
4. Sarah Healy (Vanderbilt University)—2018-20
5. Natalie Gottschlich (Vanderbilt University)—2018-20
6. Justin Stevens (Vanderbilt University)—2017-20
7. Kevin Collins (Vanderbilt University)—2017-18
8. Brianna Galgano (Vanderbilt University)—2015-17
9. Jack Lubin (Vanderbilt University)—2014-16
10. Rachel Gibbs (Vanderbilt University)—2013-14
11. Woody Austin (Vanderbilt University)—2011-12
12. Alisha Kundert (Vanderbilt University)—2010-12
13. Kristie Canaday (Fisk University)—2010-11
14. Byron Price (Vanderbilt University)—2010-11
15. Daniel Lee (Fisk University)—2009-11
16. Dylan Wood (Vanderbilt University)—2009-11
17. Rebecca Rattray (Vanderbilt University)—2010-11
18. Dan Burger (Vanderbilt University)—2009-10
19. Calen Henderson (Vanderbilt University)—2006-09
20. Lawrence Staten (Vanderbilt University)—2006-07
21. James Ovelmen (Vanderbilt University)—2005-06
22. Felipe Colazo (Fisk University)—2005-08
23. David Hill (Fisk University)—2005-08
24. Matthew Richardson (Fisk University)—2005-08
25. Matthew Miller (Swarthmore College)—2003-04

**BA honors thesis committees served:**

1. Ben Wibking (Vanderbilt University)—2013
2. Amanda Benson (Vanderbilt University)—2009
3. Katherine Robbins (Vanderbilt University)—2009
4. Jackson Norris (Vanderbilt University)—2008
5. Chris Saling (Vanderbilt University)—2008
6. Andrew Collazzi (Vanderbilt University)—2006
7. James Schlaereth (Vanderbilt University)—2004

**Summer REU undergraduate interns supervised:**

1. Ashley Meligno (University of North Florida)—2023
2. Kaitlyn Lane (Vanderbilt University)—2023
3. Olivia Holmes (University of Alabama)—2023
4. Angelu Ramos (University of Hawaii)—2022
5. Ana Sammel (Humboldt State University)—2021
6. Kim Miskovetz (University of Hawaii)—2020
7. Max Brodheim (Hobart College)—2019
8. Caitlin Moeller (UMass Amherst)—2018

9. Edwin Santiago (University of Costa Rica)—2018
10. Richard Nederlander (Columbia University)—2017
11. Zameese Peters (Norfolk State University)—2017
12. John Thomas (Fisk University)—2017
13. Michael Davies (Fisk University)—2016
14. Miguel Botran (Oberlin College)—2016
15. Savannah Jacklin (Villanova University)—2014
16. Margaret Morris (Brandeis)—2014
17. Haley Tibbs (University of Arizona)—2014
18. Ethan Raymond (Vanderbilt University)—2014
19. Emily Rolen (Vanderbilt University)—2014
20. Rachel Gibbs (Vanderbilt University)—2013
21. Mahmoud Parvizi (Austin Peay State University)—2013
22. Sam Swihart (University of Michigan)—2013
23. Enmanuel Sanchez (Florida International University)—2013
24. Marialis Rosario (University of Puerto Rico)—2012-13
25. Sal Tajerina (University of Puerto Rico)—2012
26. Gabriel Jaffe (UT Austin)—2012
27. Allyn Durbin (Villanova University)—2011
28. Charee Peters (University of Denver)—2010
29. Alex Richert (University of Hawaii)—2010
30. Roxanna Shohadaee (University of Tennessee)—2010
31. Mark Bryant (Southern University)—2009
32. Heather Cegla (Minnesota State University)—2009
33. Eugenio Garcia (Johns Hopkins University)—2009
34. Francilia Samuel (Depauw University)—2008
35. Nathalia Alzate (Florida Tech)—2007
36. India Anderson (Southern University)—2007
37. Ximena Fernandez (Vassar College)—2007
38. Brittany Kamai (University of Hawaii)—2007
39. Trey Mack (University of North Carolina)—2006

#### GRANTS AS PI OR CO-PI

Agency	Period	Role	Type	Title	Amount
NASA Roman PIT	2023-28	Co-PI	Research	The Roman Space Telescope Exoplanet Microlensing Survey	\$5M
Heising Simons	2023-26	PI	Training	Postdoctoral Fellowship Program for Research in Astrophysics	\$1.2M
NASA ULTRASAT	2023-26	PI	Research	Stellar Activity in the Ultraviolet	\$300K
NSF CIVIC	2023-24	Co-PI	Research	A Virtual Reality Driving Instruction Technology to Advance Neurodiverse Employment and Independence	\$1M
NSF BPE	2022-24	PI	Research	Center of Excellence for Equity in Engineering: The Autism Self-advocacy Center for Equity and Neurodiversity in Engineering (The A-SCENE) at Vanderbilt University	\$1.2M
NSF REU	2022-25	PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$430K



NSF ERC	2021-22	PI	Research	Engineering Research Center Planning Grant	\$100K
NSF HTF	2020-22	PI	Research	Commercialization of Technologies for STEM Employment of Individuals with Autism	\$5.0M
NASA TESS	2020-21	PI	Research	Classification of Stars in the TESS Full Frame Images	\$50K
NASA ADAP	2019-21	PI	Research	A Pipeline for Extraction of Stellar Light Curves from the TESS Full Frame Images	\$285K
NSF NRT	2019-24	PI	Training	Neurodiversity Inspired Science & Engineering	\$3.0M
NSF HTF	2019-20	Co-PI	Research	Technologies for STEM Employment of Individuals with Autism	\$1.0M
Heising Simons	2019-23	PI	Research	Postdoctoral Fellowship Program for Research in Astrophysics	\$900K
NSF REU	2019-21	Co-PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$350K
HHMI	2018-22	PI	Research	Howard Hughes Medical Institute Million Dollar Professor Prize	\$1.0M
NSF HTF	2017-18	PI	Research	Convergence HTF: Shaping the Future of Research on Human-Technology Partnerships to Increase STEM Workforce Engagement	\$100K
NASA XRP	2017-20	PI	Research	The Transiting Exoplanet Survey Satellite (TESS) Target Input Catalog and Candidate Target List	\$516K
Vanderbilt University	2017-18	PI	Research	Trans-Institutional Program grant to establish the Center for Autism & Innovation	\$200K
RCSA	2017-19	PI	Research	Cottrell SEED Award	\$100K
NSF OMA	2017-19	PI	Research	NSF INCLUDES DDLP: Southeastern Compact for Inclusive Student Transitions in Engineering and Physical Sciences (SCI-STEPS)	\$300K
NSF HRD	2016-21	PI	Research / Training	Alliances for Graduate Education and the Professoriate: Advancing Women of Color to the Faculty in STEM	\$2.1M
NSF LSAMP	2015-18	PI	Training	Tennessee Louis Stokes Alliance for Minority Participation Bridge to the Doctorate	\$987K
NSF PHY	2015-18	Co-PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$350K
DoEd GAANN	2015-18	PI	Training	Graduate Assistance in Areas of National Need: Physics and Astronomy at Vanderbilt University	\$900K
RCSA	2015-16	PI	Research	Cottrell TREE Award	\$100K
NSF AST	2014-19	PI	Research / Training	Graduate Opportunities at Fisk in Astronomy and Astrophysics Research (GO-FAAR)	\$2.2M
NIH R-25	2013-18	Co-PI	Training	The Fisk-Vanderbilt Biomedical Bridge to the Doctorate	\$2.0M
NSF PHY	2013-15	Co-PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$350K
NSF AST	2011-14	Co-PI	Research	Triangulating on Ages of Stars: Using Open Clusters to Calibrate Stellar Chronometers from Myr to Gyr Ages	\$372K
NASA ADAP	2011-14	PI	Research	The EB Factory: Harnessing the Power of	\$369K

				Eclipsing Binary Stars in the Kepler Archive	
NSF CRPA	2011-13	PI	Outreach	Tennessee Explorers	\$150K
NASA	2011-14	PI	Training	Graduate Research Fellowships Program	\$135K
NSF HRD	2011-12	PI	Training	The Universities Network for Leadership Through Diversity (UN-LTD)	\$150K
NSF AST	2010-13	Co-PI	Research	Bringing eclipsing binary stars to the next level of benchmark precision	\$351K
NSF PHY	2010-13	Co-PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$328K
NASA Fermi	2010-12	Co-PI	Outreach	Bringing the Excitement of Astronomy to Underserved Audiences	\$36K
NSF AST	2009-14	PI	Research / Training	Graduate Opportunities at Fisk in Astronomy and Astrophysics Research (GO-FAAR)	\$2.5M
NASA	2009-12	PI	Training	Graduate Research Fellowships Program	\$135K
DoEd GAANN	2009-12	PI	Training	Graduate Assistance in Areas of National Need: Physics and Astronomy at Vanderbilt University	\$784K
NSF HRD	2009-14	PI	Research / Training	Broadening Participation in Materials Science through Institutionalization of a Masters-PhD Bridge Program	\$1.25M
NSF AST	2009-12	PI	Research	Wide Low-Mass Binaries: Testing Theories of Star Formation and Evolution	\$342K
Vanderbilt University	2009-11	PI	Research	Discovery Grant: Development of REDDnet for Data-Intensive Astrophysics Applications	\$200K
NSF AST	2008-11	PI	Research	X-ray Production and Angular Momentum Evolution in Low-Mass Stars	\$290K
NSF PAARE	2008-09	PI	Research / Training	Graduate Opportunities at Fisk in Astronomy and Astrophysics Research	\$240K
Vanderbilt University	2007-12	PI	Research	The Vanderbilt Initiative in Data-intensive Astrophysics (VIDA)	\$2.2M
NSF REU	2007-10	Co-PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$300K
NASA Spitzer	2007-09	PI	Research	Spectral Energy Distribution of the First Brown-Dwarf Eclipsing Binary	\$15K
Research Corp.	2006-11	PI	Research	Cottrell Scholar Award	\$100K
NSF AST	2006-08	PI	Research	A Fundamental Calibration of Pre-Main-Sequence Evolution Models for Brown Dwarfs	\$125K
NASA Spitzer	2005-07	Co-PI	Research	The Angular Momentum Evolution of Young, Low-Mass Stars	\$67K
NASA Space Grant	2005-06	Co-PI	Outreach	The Fisk-Vanderbilt NASA Roadshow: Outreach to Underserved Communities with a Traveling Planetarium (D. James, PI)	\$20K
NSF Career	2004-09	PI	Research	Order-of-Magnitude Problems in Star Formation and Minority Representation	\$1.0M
NASA HST	2004-06	Co-PI	Research	The HST Survey of the Orion Nebula Cluster	\$848K
NASA MUCERPI	2003-06	Co-PI	Research / Training	Toward a Comprehensive Space Science Program at Fisk University	\$825K
NASA	2001-03	PI	Research	Hubble Postdoctoral Fellows Program	\$216K

NSF AST	2001-04	Co-PI	Research	Observational Tests of Pre-Main-Sequence Stellar Evolution Theory	\$415K
NASA Chandra	2001-02	Co-PI	Research	The Rotation-Activity Relationship Among Young Stars in Orion	\$60K
NSF GK-12	2000-03	Co-PI	Training	K-12 and Graduate Student Professional Development Partnership Program	\$1.1M

**INVITED AND PLENARY TALKS—RESEARCH (\*\* indicates conference plenary speaker)**

1. University of Connecticut, Astronomy Colloquium, November 2023
2. Ohio State University, Astronomy Colloquium, October 2023
3. MIT, Astronomy Colloquium, September 2023
4. Space Telescope Science Institute, Astronomy Colloquium, August 2023
5. Caltech, Astronomy Colloquium, March 2023
6. \*\* American Astronomical Society, NASA's Great Observatories Program, January 2023
7. Northern Arizona University, Astronomy Colloquium, February 2022
8. Caltech, Astronomy Colloquium, December 2021
9. University of Pittsburgh, Astronomy Seminar, December 2021
10. University of Wisconsin, Astronomy Colloquium, October 2021
11. University of Chicago, Astronomy Colloquium, May 2021
12. University of Maryland, Astronomy Colloquium, April 2021
13. University of Minnesota, Astronomy Colloquium, March 2021
14. Princeton University, Astronomy Colloquium, March 2021
15. Harvard University, Physics Colloquium, March 2021
16. \*\* HHMI, HHMI Professors Research Symposium, February 2021
17. Large Synoptic Survey Telescope Consortium, Astronomy Seminar, October 2020
18. University of Texas, Physics Colloquium, September 2020
19. Harvard University, Physics Colloquium, September 2020
20. NASA Goddard Space Flight Center, Astronomy Colloquium, September 2020
21. University of California at Berkeley, Astronomy Colloquium, July 2020
22. University of North Carolina, Astronomy Colloquium, July 2020
23. University of Washington, Astronomy Colloquium, April 2020
24. National Science Foundation Human-Technology Frontiers Conference, Invited Talk, February 2020
25. \*\* National Academies Ford Fellows Conference, Invited Plenary, October 2019
26. \*\* Howard Hughes Medical Institute, Invited Prize Lecture, July 2019
27. Research Corporation for Science Advancement, Invited Prize Lecture, July 2019
28. University of California at Santa Barbara, Astronomy Colloquium, May 2019
29. University of Toledo, Astronomy Colloquium, April 2019
30. Indiana University, Distinguished Lecturer, April 2019
31. University of Cincinnati, Astronomy Colloquium, March 2019
32. New York University, Invited Presentation, March 2019
33. University of Pittsburgh, Invited Presentation, March 2019
34. University of California at Irvine, Invited Presentation, March 2019
35. University of Michigan, Invited Presentation, February 2019
36. University of Florida, Astronomy Colloquium, January 2019
37. California Institute of Technology, Thirty Meter Telescope Symposium, December 2018
38. Princeton University and Institute for Advanced Study, Astronomy Colloquium, November 2018
39. Cornell University, Distinguished Lecturer, October 2018
40. Yale University, Distinguished Lecturer, September 2018
41. Rice University, Astronomy Colloquium, August 2018

42. \*\* American Astronomical Society, Plenary Speaker, June 2018
43. Indiana University, Astronomy Colloquium, March 2018
44. University of Texas at Austin, Distinguished Astronomy Lecturer, February 2018
45. University of California at Los Angeles, Astronomy Colloquium, November 2017
46. University of Colorado, Astronomy Colloquium, September 2017
47. University of Wisconsin, Astronomy Colloquium, August 2017
48. Princeton University, Astronomy Seminar, February 2017
49. Harvard University, Astronomy Colloquium, February 2017
50. Swarthmore College, Astronomy Colloquium, September 2016
51. American Astronomical Society, Invited Special Session Speaker, June 2016
52. Harvard University Center for Astrophysics, Astronomy Seminar, May 2016
53. California State University Northridge, Distinguished University Lecture, March 2016
54. NASA Goddard Space Flight Center, Astronomy Colloquium, Feb 2016
55. University of Washington, Astronomy Colloquium, Nov 2015
56. Research Corporation for Science Advancement, Invited Presentation to the Board, Nov 2015
57. \*\* University of Michigan, Solar-Stellar Connection Conference, May 2015
58. Dartmouth College, Astronomy Colloquium, April 2015
59. Indiana University, Astronomy Colloquium, April 2015
60. New York University, Astronomy Colloquium, March 2015
61. University of Michigan, Astronomy Colloquium, Feb 2015
62. Stanford University, Distinguished Visiting Scholar Colloquium, Nov 2014
63. NASA WFIRST Science Meeting, Caltech, Nov 2014
64. Google SciFoo Meeting, GooglePlex, Aug 2014
65. \*\* NASA Sagan Workshop, Caltech, July 2014
66. TechConnect Entrepreneurship National Meeting, Washington DC, June 2014
67. American Physical Society, Nicholson Medalist Special Seminar, Mar 2014
68. University of Western Ontario, Astronomy Colloquium, Feb 2014
69. Ohio State University, Astronomy Colloquium, Feb 2014
70. University of Wisconsin—Madison, Astronomy Colloquium, Dec 2013
71. Penn State University, Astronomy Colloquium, Oct 2013
72. \*\* Space Telescope Science Institute, Orion Nebula Conference Plenary Talk, Oct 2013
73. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
74. \*\* Palomar Observatory Science Meeting, Caltech, Invited Plenary, Nov 2012
75. \*\* International Conference on the 50th Anniversary of Brown Dwarf Stars, Invited Plenary, Oct 2012
76. Georgia State University, Physics & Astronomy Colloquium, Oct 2012
77. \*\* Keck Observatory Science Meeting, UC San Diego, Invited Plenary, Oct 2012
78. \*\* International Conference on Cool Stars and the Sun, Invited Plenary, June 2012
79. University of Texas at Austin, Physics Colloquium, Feb 2012
80. University of Maryland College Park, Physics Colloquium, Jan 2012
81. Harvard University, Invited Seminar, Center for the Search for Extrasolar Earths, Jan 2012
82. Yale University, Astronomy Colloquium, 2011
83. Dartmouth College, Physics Colloquium, 2011
84. Massachusetts Institute of Technology, Astrophysics Colloquium, 2011
85. Yale University, Physics Colloquium, 2011
86. University of Florida, Astronomy Colloquium, 2011
87. \*\* International Symposium on the Origin of Stellar Masses, Exeter University, 2010
88. University of California at San Diego, Astronomy Colloquium, 2010
89. University of California at Berkeley, Astronomy Colloquium, 2010
90. \*\* 16<sup>th</sup> Cambridge Symposium on Cool Stars and the Sun, University of Washington, 2010
91. \*\* Gordon Research Conference, Mt. Holyoke College, 2010

92. University of Denver, Marsico Distinguished Lecture, 2010
93. Carnegie Institution of Washington, Astronomy Colloquium, 2010
94. \*\* IAU Symposium on the Ages of Stars, 2009
95. Space Telescope Science Institute, Colloquium, 2009
96. University of Chicago, Astronomy Colloquium, 2009
97. University of Iowa, Astronomy Colloquium, 2008
98. \*\* 14th Cambridge Workshop on Cool Stars and the Sun, University of St. Andrews, 2008
99. Space Telescope Science Institute, Caroline Herschel Distinguished Lecture, 2008
100. \*\* International Gemini Observatory Key Science Symposium, 2007
101. University of Michigan, Astronomy Colloquium, 2007
102. Boston University, Astronomy Colloquium, 2007
103. Villanova University, Astronomy Colloquium, 2007
104. \*\* From Stars to Planets Symposium, University of Florida, 2007
105. University of Maryland, Astronomy Colloquium, 2007
106. Yale University, Astronomy Colloquium, 2006
107. Columbia University, Astronomy Colloquium, 2006
108. University of Virginia, Astronomy Colloquium, 2006
109. University of Arizona, Astronomy Colloquium, 2006
110. \*\* Protostars & Planets V Conference, University of Hawaii, 2005
111. American Astronomical Society Special Session, San Diego, 2005
112. University of Texas at Austin, Astronomy Colloquium, 2004
113. \*\* Large Synoptic Survey Telescope Science Workshop, Seattle, 2004
114. \*\* Gemini Observatory International Symposium, Vancouver, 2004
115. SUNY Stony Brook, Astronomy Colloquium, 2004
116. American Astronomical Society Special Session, Nashville, 2003
117. University of Washington, Astronomy Colloquium, 2003
118. Carnegie Institution of Washington, Astronomy Colloquium, 2003
119. University of Minnesota, Astronomy Colloquium, 2003
120. San Francisco State University, Astronomy Colloquium, 2003
121. American Astronomical Society Special Session, Albuquerque, 2002
122. McDonald Observatory, Astronomy Colloquium, 2002
123. Laboratoire d'Astrophysique Grenoble, Astronomy Colloquium, 2002
124. \*\* IAU Symposium on the Formation of Binary Stars, Potsdam, Germany, 2001
125. \*\* IAU Symposium on the Origin and Evolution of Young Stellar Clusters, 2001
126. Ohio State University, Astronomy Colloquium, 2001
127. \*\* IAU Symposium on Stellar Clusters and Associations, 2000
128. University of California at Berkeley, Astronomy Colloquium, 2000
129. Utrecht University, The Netherlands, Astronomy Colloquium, 2000
130. \*\* European Southern Observatory International Symposium, Palermo, Italy, 1999

**INVITED AND PLENARY TALKS— DIVERSITY, EDUCATION, OUTREACH (\*\* indicates conference plenary speaker)**

1. \*\* Neurodiversity and Employment Technology Showcase Conference, October 2023
2. \*\* Disability:In Conference, July 2023
3. \*\* Autism Society of America Conference, September 2022
4. \*\* University of Tennessee Forum on Disabilities and Employment, August 2022
5. \*\* Ernst & Young Strategic Growth Forum, November 2021
6. Ford Foundation Fellows Annual Conference, November 2021
7. European Astronomical Society, Neurodiversity in Astronomy Research Presentation, June 2021
8. CBS 60 Minutes with Anderson Cooper, Feature on Neurodiversity, November 2020:

<https://www.youtube.com/watch?v=YnAUy4BM0w8>

9. European Space Agency Diversity and Inclusion Summit, Invited Presentation, November 2020
10. College Autism Summit, Invited Presentation, October 2020
11. International Astronomical Union, Invited Presentation, October 2020
12. Cornell University, Invited Presentation, September 2020
13. Johns Hopkins University, Invited Presentation, September 2020
14. \*\* SAP Autism at Work Conference, Invited Plenary, October 2019
15. AAU Graduate Schools Conference, Invited Presentation, September 2019
16. \*\* University of Michigan, NextProf Plenary Speaker, May 2019
17. University of Texas, Distinguished Diversity Speaker, March 2019
18. Harvard University, Center for Astrophysics Mentor Speaker, August 2018
19. Research Corporation for Science Advancement, National Bridge Programs Speaker, June 2018
20. University of Michigan, NextProf Science Keynote Speaker, May 2018
21. Indiana University, Distinguished Diversity Seminar, March 2018
22. University of Texas at Austin, Distinguished Diversity Seminar, February 2018
23. Princeton University, President's Distinguished Lecture, October 2017
24. Texas A&M University, Graduate School Distinguished Lecture, October 2017
25. University of Pittsburgh, Graduate School Diversity Seminar, October 2017
26. University of Pittsburgh, School of Engineering Diversity Seminar, May 2017
27. Northwestern University, Distinguished Diversity Seminar, May 2017
28. Harvard University, Herschbach Distinguished Lecture, February 2017
29. \*\* APS Diversity Showcase, Washington DC, January 2017
30. Ohio State University, Diversity Forum, December 2016
31. \*\* AAAS Graduate Deans Conference, Carnegie Mellon University, November 2016
32. \*\* National Academies Ford Diversity Fellows, National Academy of Sciences, Sept 2016
33. KIPP Symposium, Invited Panelist, July 2016
34. MIT, Graduate Diversity Seminar, May 2016
35. Dartmouth College, Diversity Colloquium, April 2015
36. Indiana University, Diversity Colloquium, April 2015
37. New York University, Diversity Colloquium, March 2015
38. University of Michigan, Diversity Colloquium, Feb 2015
39. \*\* National Academies Ford Diversity Fellows, National Academy of Sciences, Sep 2014
40. Society for the Advancement of Chicanos and Native Americans in Science, Invited Talk, Oct 2014
41. American Museum of Natural History, Invited Astro Bridge Program talk, July 2014
42. Arkansas State University, EPSCOR Bridge Program Invited Talk, Mar 2014
43. Ohio State University, Graduate Division, Invited Talk, Feb 2014
44. UC Irvine DECADE Series, Invited Talk, Jan 2014
45. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2014
46. Penn State University, Diversity Seminar, Oct 2013
47. \*\* American Institutes for Research, Plenary Talk, Sept 2013
48. American Museum of Natural History, Invited Colloquium, Sept 2013
49. UC Irvine, Astronomy, Invited Colloquium, July 2013
50. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
51. \*\* Ford Foundation Fellows Conference, National Academies of Science, Invited Plenary, Sept 2012
52. MIT, Committee on Race and Diversity, 2011
53. Yale University, Physics Department, 2011
54. American Physical Society Meeting, 2011
55. NSF MPS Distinguished Lecture, 2011
56. NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, 2011
57. \*\* University of Michigan Symposium on Diversity in STEM, 2010

58. American Physical Society Meeting, 2010
59. Harvard University, Center for Astrophysics, 2009
60. Women and Minorities in Astronomy Meeting, 2009
61. \*\* The Future of Diversity and Opportunity in Higher Education Conference, Rutgers University, 2008
62. University of Iowa, Astronomy Department, 2008
63. Boston University, Astronomy Department, 2008
64. \*\* Ford Foundation Fellows Annual Conference, 2008
65. American Physical Society Meeting, 2008
66. Yale University, Astronomy Department, 2007
67. \*\* University of Michigan ADVANCE Symposium, 2007
68. American Physical Society Gender and Diversity Conference, 2007
69. Columbia University, Astronomy Department, 2006
70. University of Texas at Austin, Astronomy Department, 2004
71. NSF IGERT PI Meeting, 2004
72. \*\* Women in Astronomy II Meeting, 2003
73. \*\* American Association of Physics Teachers Meeting, 2003
74. University of Washington, Astronomy Department, 2003
75. University of Minnesota, Astronomy Department, 2003
76. American Astronomical Society Special Session, 2003
77. Ohio State University, Astronomy Department, 2001
78. American Astronomical Society Special Session, Atlanta, 2000

#### PUBLICATIONS—PEER REVIEWED JOURNALS—IN PRINT OR IN PRESS

(UP TO DATE LISTING AVAILABLE AT: [HTTP://ASTRO.PHY.VANDERBILT.EDU/~STASSUK/PUBS.HTM](http://astro.phy.vanderbilt.edu/~stassuk/pubs.htm))

*Total publications in refereed journals: 554. Citation count as of 01 December 2023: 34,919 (h index = 81)*

1. **Stassun**, Keivan G., Torres, Guillermo, Kounkel, Marina, Tofflemire, Benjamin M., Leiner, Emily, Feliz, Dax L., Dixon, Don M., Mathieu, Robert D., Gosnell, Natalie, and Gully-Santiago, Michael, 2023, *The Astrophysical Journal*, "An Eclipsing Binary Comprising Two Active Red Stragglers of Identical Mass and Synchronized Rotation: A Post-mass-transfer System or Just Born That Way?"
2. Sha, Lizhou, Vanderburg, Andrew M., Huang, Chelsea X., Armstrong, David J., Brahm, Rafael, Giacalone, Steven, Wood, Mackenna L., Collins, Karen A., Nielsen, Louise D., Hobson, Melissa J., and 45 colleagues, 2023, *Monthly Notices of the Royal Astronomical Society*, "Correction to: TESS spots a mini-neptune interior to a hot saturn in the TOI-2000 system"
3. Wittrock, Justin M., Plavchan, Peter P., Cale, Bryson L., Barclay, Thomas, Ludwig, Mathis R., Schwarz, Richard P., Mékarnia, Djamel, Triaud, Amaury H. M. J., Abe, Lyu, Suarez, Olga, and 24 colleagues, 2023, *The Astronomical Journal*, "Validating AU Microscopii d with Transit Timing Variations"
4. Osborn, Ares, Armstrong, David J., Fernández Fernández, Jorge, Knierim, Henrik, Adibekyan, Vardan, Collins, Karen A., Delgado-Mena, Elisa, Fridlund, Malcolm, Gomes da Silva, João, Hellier, Coel, and 42 colleagues, 2023, *Monthly Notices of the Royal Astronomical Society*, "TOI-332 b: a super dense Neptune found deep within the Neptunian desert"
5. Quintana, Elisa V., Gilbert, Emily A., Barclay, Thomas, Silverstein, Michele L., Schlieder, Joshua E., Cloutier, Ryan, Quinn, Samuel N., Rodriguez, Joseph E., Vanderburg, Andrew, Hord, Benjamin J., and 49 colleagues, 2023, *The Astronomical Journal*, "Two Warm Super-Earths Transiting the Nearby M Dwarf TOI-2095"
6. Hagelberg, J., Nielsen, L. D., Attia, O., Bourrier, V., Pearce, L., Venturini, J., Winn, J. N., Bouchy, F., Bouma, L. G., Briceño, C., and 24 colleagues, 2023, *Astronomy and Astrophysics*, "TOI-858 B b: A hot Jupiter on a polar orbit in a loose binary"
7. Hambleton, Kelly M., Bianco, Federica B., Street, Rachel, Bell, Keaton, Buckley, David, Graham, Melissa, Hernitschek, Nina, Lund, Michael B., Mason, Elena, Pepper, Joshua, and 72 colleagues, 2023,

- Publications of the Astronomical Society of the Pacific, "Rubin Observatory LSST Transients and Variable Stars Roadmap"
8. Armstrong, David J., Osborn, Ares, Adibekyan, Vardan, Delgado-Mena, Elisa, Hojjatpanah, Saeed, Howell, Steve B., Hoyer, Sergio, Knierim, Henrik, Sousa, Sérgio G., **Stassun**, Keivan G., and 26 colleagues, 2023, Monthly Notices of the Royal Astronomical Society, "Discovery and characterization of two Neptune-mass planets orbiting HD 212729 with TESS"
  9. Cañas, Caleb I., Bender, Chad F., Mahadevan, Suvrath, Bizyaev, Dmitry, De Lee, Nathan, Fleming, Scott W., Hearty, Fred, Majewski, Steven R., Nitschelm, Christian, Schneider, Donald P., and 5 colleagues, 2023, The Astrophysical Journal Supplement Series, "Erratum: "Characterization of Low-mass Companions to Kepler Objects of Interest Observed with APOGEE-N" (2023, ApJS, 265, 50)"
  10. Metcalfe, Travis S., Buzasi, Derek, Huber, Daniel, Pinsonneault, Marc H., van Saders, Jennifer L., Ayres, Thomas R., Basu, Sarbani, Drake, Jeremy J., Egeland, Ricky, Kochukhov, Oleg, and 24 colleagues, 2023, The Astronomical Journal, "Asteroseismology and Spectropolarimetry of the Exoplanet Host Star  $\lambda$  Serpentis"
  11. Gan, Tianjun, Cadieux, Charles, Jahandar, Farbod, Vazan, Allona, Wang, Sharon X., Mao, Shude, Alvarado-Montes, Jaime A., Lin, D. N. C., Artigau, Étienne, Cook, Neil J., and 34 colleagues, 2023, The Astronomical Journal, "A Massive Hot Jupiter Orbiting a Metal-rich Early M Star Discovered in the TESS Full-frame Images"
  12. Edwards, Billy, Changeat, Quentin, Tsiaras, Angelos, Allan, Andrew, Behr, Patrick, Hagey, Simone R., Himes, Michael D., Ma, Sushuang, **Stassun**, Keivan G., Thomas, Luis, and 20 colleagues, 2023, The Astronomical Journal, "Characterizing a World Within the Hot-Neptune Desert: Transit Observations of LTT 9779 b with the Hubble Space Telescope/WFC3"
  13. Sha, Lizhou, Vanderburg, Andrew M., Huang, Chelsea X., Armstrong, David J., Brahm, Rafael, Giacalone, Steven, Wood, Mackenna L., Collins, Karen A., Nielsen, Louise D., Hobson, Melissa J., and 45 colleagues, 2023, Monthly Notices of the Royal Astronomical Society, "TESS spots a mini-neptune interior to a hot saturn in the TOI-2000 system"
  14. Fetherolf, Tara, Pepper, Joshua, Simpson, Emilie, Kane, Stephen R., Močnik, Teo, English, John Edward, Antoci, Victoria, Huber, Daniel, Jenkins, Jon M., **Stassun**, Keivan, and 3 colleagues, 2023, The Astrophysical Journal Supplement Series, "Variability Catalog of Stars Observed during the TESS Prime Mission"
  15. Mireles, Ismael, Dragomir, Diana, Osborn, Hugh P., Hesse, Katharine, Collins, Karen A., Villanueva, Steven, Bieryla, Allyson, Ciardi, David R., **Stassun**, Keivan G., Harris, Mallory, and 24 colleagues, 2023, The Astrophysical Journal, "TOI-4600 b and c: Two Long-period Giant Planets Orbiting an Early K Dwarf"
  16. Barkaoui, K., Timmermans, M., Soubkiou, A., Rackham, B. V., Burgasser, A. J., Chouqar, J., Pozuelos, F. J., Collins, K. A., Howell, S. B., Simcoe, R., and 60 colleagues, 2023, Astronomy and Astrophysics, "TOI-2084 b and TOI-4184 b: Two new sub-Neptunes around M dwarf stars"
  17. Ghachoui, M., Soubkiou, A., Wells, R. D., Rackham, B. V., Triaud, A. H. M. J., Sebastian, D., Giacalone, S., **Stassun**, K. G., Ciardi, D. R., Collins, K. A., and 45 colleagues, 2023, Astronomy and Astrophysics, "TESS discovery of a super-Earth orbiting the M-dwarf star TOI-1680"
  18. Kempton, Eliza M. -R., Zhang, Michael, Bean, Jacob L., Steinrueck, Maria E., Piette, Anjali A. A., Parmentier, Vivien, Malsky, Isaac, Roman, Michael T., Rauscher, Emily, Gao, Peter, and 23 colleagues, 2023, Nature, "A reflective, metal-rich atmosphere for GJ 1214b from its JWST phase curve"
  19. Lin, Zitao, Gan, Tianjun, Wang, Sharon X., Shporer, Avi, Rabus, Markus, Zhou, George, Psaridi, Angelica, Bouchy, François, Bieryla, Allyson, Latham, David W., and 35 colleagues, 2023, Monthly Notices of the Royal Astronomical Society, "Three low-mass companions around aged stars discovered by TESS"
  20. Almeida, Andrés, Anderson, Scott F., Argudo-Fernández, Maria, Badenes, Carles, Barger, Kat, Barrera-Ballesteros, Jorge K., Bender, Chad F., Benitez, Erika, Besser, Felipe, Bird, Jonathan C., and 145 colleagues, 2023, The Astrophysical Journal Supplement Series, "The Eighteenth Data Release of the Sloan Digital Sky Surveys: Targeting and First Spectra from SDSS-V"



21. Dai, Fei, Schlaufman, Kevin C., Reggiani, Henrique, Bouma, Luke, Howard, Andrew W., Chontos, Ashley, Pidhorodetska, Daria, Van Zandt, Judah, Akana Murphy, Joseph M., Rubenzahl, Ryan A., and 41 colleagues, 2023, *The Astronomical Journal*, "A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+29 2654"
22. Usher, Christopher, Dage, Kristen C., Girardi, Léo, Barmby, Pauline, Bonatto, Charles J., Chies-Santos, Ana L., Clarkson, William I., Gómez Camus, Matias, Hartmann, Eduardo A., Ferguson, Annette M. N., and 19 colleagues, 2023, *Publications of the Astronomical Society of the Pacific*, "Rubin Observatory LSST Stars Milky Way and Local Volume Star Clusters Roadmap"
23. Frame, Ginger, Armstrong, David J., Cegla, Heather M., Fernández Fernández, Jorge, Osborn, Ares, Adibekyan, Vardan, Collins, Karen A., Delgado Mena, Elisa, Giacalone, Steven, Kielkopf, John F., and 32 colleagues, 2023, *Monthly Notices of the Royal Astronomical Society*, "TOI-2498 b: a hot bloated super-Neptune within the Neptune desert"
24. Wanderley, Fábio, Cunha, Katia, Souto, Diogo, Smith, Verne V., Cao, Lyra, Pinsonneault, Marc, Allende Prieto, C., Covey, Kevin, Masseron, Thomas, Pascucci, Ilaria, and 16 colleagues, 2023, *The Astrophysical Journal*, "Stellar Characterization and Radius Inflation of Hyades M-dwarf Stars from the APOGEE Survey"
25. Wehrle, Ann E., Carini, Michael, Wiita, Paul J., Pepper, Joshua, Gaudi, B. Scott, Pogge, Richard W., **Stassun**, Keivan G., and Villanueva, Steven, 2023, *The Astrophysical Journal*, "K2 Optical Emission from OJ 287 and Other  $\gamma$ -Ray Blazars on Hours-to-weeks Timescales from 2014 to 2018"
26. Hua, Xinyan, Wang, Sharon Xuesong, Teske, Johanna K., Gan, Tianjun, Shporer, Avi, Zhou, George, **Stassun**, Keivan G., Rabus, Markus, Howell, Steve B., Ziegler, Carl, and 25 colleagues, 2023, *The Astronomical Journal*, "A Transiting Super-Earth in the Radius Valley and an Outer Planet Candidate Around HD 307842"
27. Kunitomo, Michelle, Vanderburg, Andrew, Huang, Chelsea X., Davis, M. Ryleigh, Affer, Laura, Cameron, Andrew Collier, Charbonneau, David, Cosentino, Rosario, Damasso, Mario, Dumusque, Xavier, and 46 colleagues, 2023, *The Astronomical Journal*, "TOI-4010: A System of Three Large Short-period Planets with a Massive Long-period Companion"
28. Psaridi, Angelica, Bouchy, François, Lendl, Monika, Akisanmi, Babatunde, **Stassun**, Keivan G., Smalley, Barry, Armstrong, David J., Howard, Saburo, Ulmer-Moll, Solène, Grieves, Nolan, and 55 colleagues, 2023, *Astronomy and Astrophysics*, "Three Saturn-mass planets transiting F-type stars revealed with TESS and HARPS. TOI-615b, TOI-622b, and TOI-2641b"
29. Hon, Marc, Huber, Daniel, Rui, Nicholas Z., Fuller, Jim, Veras, Dimitri, Kuzlewicz, James S., Kochukhov, Oleg, Stokholm, Amalie, Rørsted, Jakob Lysgaard, Yıldız, Mutlu, and 32 colleagues, 2023, *Nature*, "A close-in giant planet escapes engulfment by its star"
30. Bean, Jacob L., Xue, Qiao, August, Prune C., Lunine, Jonathan, Zhang, Michael, Thorngren, Daniel, Tsai, Shang-Min, **Stassun**, Keivan G., Schlawin, Everett, Ahrer, Eva-Maria, and 2 colleagues, 2023, *Nature*, "High atmospheric metal enrichment for a Saturn-mass planet"
31. de Leon, J. P., Livingston, J. H., Jenkins, J. S., Vines, J. I., Wittenmyer, R. A., Clark, J. T., Winn, J. I. M., Addison, B., Ballard, S., Bayliss, D., and 59 colleagues, 2023, *Monthly Notices of the Royal Astronomical Society*, "A sub-Neptune transiting the young field star HD 18599 at 40 pc"
32. Vowell, Noah, Rodriguez, Joseph E., Quinn, Samuel N., Zhou, George, Vanderburg, Andrew, Mann, Andrew W., Hooton, Matthew J., **Stassun**, Keivan G., Howard, Saburo, Bieryla, Allyson, and 35 colleagues, 2023, *The Astronomical Journal*, "HIP 33609 b: An Eccentric Brown Dwarf Transiting a  $V = 7.3$  Rapidly Rotating B Star"
33. Gupta, Arvind F., Jackson, Jonathan M., Hébrard, Guillaume, Lin, Andrea S. J., **Stassun**, Keivan G., Dong, Jiayin, Villanueva, Steven, Dragomir, Diana, Mahadevan, Suvrath, Wright, Jason T., and 30 colleagues, 2023, *The Astronomical Journal*, "A High-Eccentricity Warm Jupiter Orbiting TOI-4127"
34. Hinkle, Jason T., Kochanek, Christopher S., Shappee, Benjamin J., Valley, Patrick J., Auchettl, Katie, Fausnaugh, Michael, Holoiën, Thomas W. -S., Treiber, Helena P., Payne, Anna V., Gaudi, B. Scott, and 4 colleagues, 2023, *Monthly Notices of the Royal Astronomical Society*, "TESS shines light on the origin of

- the ambiguous nuclear transient ASASSN-18el"
35. Rodriguez, Joseph E., Quinn, Samuel N., Vanderburg, Andrew, Zhou, George, Eastman, Jason D., Thygesen, Erica, Cale, Bryson, Ciardi, David R., Reed, Phillip A., Oelkers, Ryan J., and 123 colleagues, 2023, Monthly Notices of the Royal Astronomical Society, "Another shipment of six short-period giant planets from TESS"
  36. Kounkel, Marina, Zari, Eleonora, Covey, Kevin, Tkachenko, Andrew, Zúñiga, Carlos Román, **Stassun**, Keivan, Stutz, Amelia M., Stringfellow, Guy, Roman-Lopes, Alexandre, Hernández, Jesús, and 8 colleagues, 2023, The Astrophysical Journal Supplement Series, "ABYSS. I. Targeting Strategy for the APOGEE and BOSS Young Star Survey in SDSS-V"
  37. Metcalfe, Travis S., Strassmeier, Klaus G., Ilyin, Ilya V., van Saders, Jennifer L., Ayres, Thomas R., Finley, Adam J., Kochukhov, Oleg, Petit, Pascal, See, Victor, **Stassun**, Keivan G., and 4 colleagues, 2023, The Astrophysical Journal, "Constraints on Magnetic Braking from the G8 Dwarf Stars 61 UMa and  $\tau$  Cet"
  38. Mann, Christopher, Lafrenière, David, Dragomir, Diana, Quinn, Samuel N., Tan, Thiam-Guan, Collins, Karen A., Howell, Steve B., Ziegler, Carl, Mann, Andrew W., **Stassun**, Keivan G., and 18 colleagues, 2023, The Astronomical Journal, "Validation of TOI-1221 b: A Warm Sub-Neptune Exhibiting Transit Timing Variations around a Sun-like Star"
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## PUBLICATIONS—OTHER CONTRIBUTIONS

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## COURSES TAUGHT (\*\* INDICATES NEW COURSE DEVELOPED)

1. **Astronomy 1010: Stars, Galaxies, and Cosmology** [3 credit hours]  
This is a general introductory astronomy course intended primarily for non-science majors. This course explores the Universe with a focus on the physical processes that have led to the chemical evolution that makes life on Earth possible.
2. **\*\* Astronomy 3000: Principles of Astrophysics** [3 credit hours]  
This is an introductory astrophysics course intended for physics majors (especially those on the astronomy/astrophysics track), astronomy minors, other science and engineering majors, or any student interested in a rigorous, math- and physics-based introduction to astronomy. Prerequisites are one semester each of college-level physics and calculus.
3. **\*\* Astronomy 3222/5222: Methods of Observational Astronomy** [3 credit hours]  
ASTR 222 is a hands-on astronomy laboratory course for physics majors (especially those on the astronomy/astrophysics track), astronomy minors, other science and engineering majors, or any student interested in doing real astronomy experiments. The course meets at the Dyer Observatory one evening per week at 6-11pm. An emphasis is placed on experimental design, data collection methods, data analysis (including some computer programming), error analysis, and statistical methods. Prerequisites are one year each of college-level physics and calculus. The graduate-level equivalent (ASTR 322) includes an additional hour per week of introduction to statistical techniques for astronomers, and discussion of techniques for effectively presenting quantitative information.
4. **\*\* Astronomy 3001: Topical Seminar in Astronomy: Star Formation** [3 credit hours]

- A graduate seminar exploring theoretical and observational topics in the formation of stars, through readings of primary research articles. Topics include: physical properties of the interstellar medium; molecular clouds, including heating and cooling physics; cloud stability and collapse; protostars; binary stars; jets and outflows; effects on environment due to massive star evolution; young solar-type stars.
5. **\*\* Astronomy 3007: Topical Seminar in Astronomy: Exoplanets** [3 credit hours]  
A graduate seminar exploring theoretical and observational topics related to exoplanets. Topics include: an overview of star formation and stellar evolution (emphasis on protoplanetary disks); methods for determining basic physical properties of stars which are relevant to the determination of exoplanet properties; planet formation and evolution theory; exoplanet detection techniques, limits, and surveys; statistical distributions of known exoplanets and comparisons to model predictions; exoplanet atmospheres; habitability and searches for life.
  6. **\*\* Physics 3002: Learning to Teach, Teaching to Learn** [1 credit hour]  
This seminar course focusing on college science teaching is primarily aimed at first-time teaching assistants, and other students interested in improving teaching skills. Through readings, the course provides an introduction to science education research, cognitive science, and education theory. Through group discussions, the course provides an opportunity for reflection on teaching techniques that promote learning in the classroom. Finally, the course provides an opportunity for development of a teaching portfolio, which is becoming increasingly important in the academic job market.
  7. **\*\* Computer Science 8395: Applications of Neurodiversity Inspired Science & Engineering** [3 credits]  
Real-life applications of NISE are explored to inspire thesis projects and to gain appreciation for the connections across the broad swath of STEM disciplines involved. For example, students will learn about new artificial-intelligence approaches modeled on autistic visual thinking, virtual reality environments to develop social skills for the workplace, eye-tracker enabled apps for assessing visual cognitive skills, business approaches for matching neurodiverse individuals to jobs, and data visualization tools invented and commercialized by autistic developers.
  8. **\*\* Education 3900: Epistemology Foundations of Math and Science** [3 credit hours]  
This course examines the social, cognitive, and material arrangements and mechanisms that contribute to how we know what we know in mathematics and in sciences. Knowing how we know is the domain of epistemology. The focus on epistemology is intended as counterpoint to more traditional approaches to education, which take the content to be taught as fixed and the aim of pedagogy as being to develop effective methods (e.g., “best practices”) for delivery of this knowledge. This course focuses instead on considering what makes knowing challenging in these disciplines, because such a perspective offers alternative framings of the problem of teaching. Questions include: How well do current instructional designs help students understand the nature of knowing in sciences and in mathematics? How might alternative instructional designs be informed by analysis of forms of knowledge and ways of knowing (i.e., practices) in math and science?
  9. **\*\* [The Life and Death of Stars](#)**  
This video course available [online](#) and on DVD was produced by the Teaching Company through The Great Courses series. In 24 lectures, the course explores the life cycle of stars—their birth, life, and death—focusing on the roles that stars play in the synthesis of the elements and in the evolution of matter and energy in the Universe over time. Topics include: stellar nurseries, the role of gravity in stellar birth, stellar “sibling rivalry”, the Sun as a star, space weather, understanding how stars work through  $E=mc^2$ , the forging of the elements in stars, stellar death, supernova explosions, the first stars, stillborn stars, and stellar magnetism.