

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

MacArthur Fellow—2024-present

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, 17th 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, Astroinformatics 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 Maligno (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 Rolan (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 ADAP	2024-26	Co-PI	Research	A new era of stellar benchmarks: TESS eclipsing binaries in the field with known ages	\$524K
NASA ADAP	2024-26	Co-PI	Research	An Activity Treasury: Rotation, Star Spots, and Dynamos	\$663K
NSF ENG	2024-27	Co-PI	Research	CONNECTED: Creating Opportunities for Neurodiverse Learners in Skilled Technical Environments via Collaborative Virtual Experiences	\$900K
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	\$1M

				Technology to Advance Neurodiverse Employment and Independence	
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 Eclipsing Binary Stars in the Kepler Archive	\$369K
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	2005-06	Co-PI	Outreach	The Fisk-Vanderbilt NASA Roadshow: Outreach	\$20K

Space Grant				to Underserved Communities with a Traveling Planetarium (D. James, PI)	
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 Texas at Austin, Astronomy Colloquium, October 2024
2. Stanford University, Neurodiversity Symposium, September 2024
3. University of Oklahoma, Astronomy Colloquium, September 2024
4. Neurodiversity at Work Research Conference, University of Maryland, May 2024
5. Michigan State University, Astronomy Colloquium, February 2024
6. University of Connecticut, Astronomy Colloquium, November 2023
7. Ohio State University, Astronomy Colloquium, October 2023
8. MIT, Astronomy Colloquium, September 2023
9. Space Telescope Science Institute, Astronomy Colloquium, August 2023
10. Caltech, Astronomy Colloquium, March 2023
11. ** American Astronomical Society, NASA's Great Observatories Program, January 2023
12. Northern Arizona University, Astronomy Colloquium, February 2022
13. Caltech, Astronomy Colloquium, December 2021
14. University of Pittsburgh, Astronomy Seminar, December 2021
15. University of Wisconsin, Astronomy Colloquium, October 2021
16. University of Chicago, Astronomy Colloquium, May 2021
17. University of Maryland, Astronomy Colloquium, April 2021
18. University of Minnesota, Astronomy Colloquium, March 2021
19. Princeton University, Astronomy Colloquium, March 2021
20. Harvard University, Physics Colloquium, March 2021
21. ** HHMI, HHMI Professors Research Symposium, February 2021
22. Large Synoptic Survey Telescope Consortium, Astronomy Seminar, October 2020
23. University of Texas, Physics Colloquium, September 2020
24. Harvard University, Physics Colloquium, September 2020
25. NASA Goddard Space Flight Center, Astronomy Colloquium, September 2020
26. University of California at Berkeley, Astronomy Colloquium, July 2020
27. University of North Carolina, Astronomy Colloquium, July 2020
28. University of Washington, Astronomy Colloquium, April 2020
29. National Science Foundation Human-Technology Frontiers Conference, Invited Talk, February 2020
30. ** National Academies Ford Fellows Conference, Invited Plenary, October 2019
31. ** Howard Hughes Medical Institute, Invited Prize Lecture, July 2019
32. Research Corporation for Science Advancement, Invited Prize Lecture, July 2019
33. University of California at Santa Barbara, Astronomy Colloquium, May 2019

34. University of Toledo, Astronomy Colloquium, April 2019
35. Indiana University, Distinguished Lecturer, April 2019
36. University of Cincinnati, Astronomy Colloquium, March 2019
37. New York University, Invited Presentation, March 2019
38. University of Pittsburgh, Invited Presentation, March 2019
39. University of California at Irvine, Invited Presentation, March 2019
40. University of Michigan, Invited Presentation, February 2019
41. University of Florida, Astronomy Colloquium, January 2019
42. California Institute of Technology, Thirty Meter Telescope Symposium, December 2018
43. Princeton University and Institute for Advanced Study, Astronomy Colloquium, November 2018
44. Cornell University, Distinguished Lecturer, October 2018
45. Yale University, Distinguished Lecturer, September 2018
46. Rice University, Astronomy Colloquium, August 2018
47. ** American Astronomical Society, Plenary Speaker, June 2018
48. Indiana University, Astronomy Colloquium, March 2018
49. University of Texas at Austin, Distinguished Astronomy Lecturer, February 2018
50. University of California at Los Angeles, Astronomy Colloquium, November 2017
51. University of Colorado, Astronomy Colloquium, September 2017
52. University of Wisconsin, Astronomy Colloquium, August 2017
53. Princeton University, Astronomy Seminar, February 2017
54. Harvard University, Astronomy Colloquium, February 2017
55. Swarthmore College, Astronomy Colloquium, September 2016
56. American Astronomical Society, Invited Special Session Speaker, June 2016
57. Harvard University Center for Astrophysics, Astronomy Seminar, May 2016
58. California State University Northridge, Distinguished University Lecture, March 2016
59. NASA Goddard Space Flight Center, Astronomy Colloquium, Feb 2016
60. University of Washington, Astronomy Colloquium, Nov 2015
61. Research Corporation for Science Advancement, Invited Presentation to the Board, Nov 2015
62. ** University of Michigan, Solar-Stellar Connection Conference, May 2015
63. Dartmouth College, Astronomy Colloquium, April 2015
64. Indiana University, Astronomy Colloquium, April 2015
65. New York University, Astronomy Colloquium, March 2015
66. University of Michigan, Astronomy Colloquium, Feb 2015
67. Stanford University, Distinguished Visiting Scholar Colloquium, Nov 2014
68. NASA WFIRST Science Meeting, Caltech, Nov 2014
69. Google SciFoo Meeting, GooglePlex, Aug 2014
70. ** NASA Sagan Workshop, Caltech, July 2014
71. TechConnect Entrepreneurship National Meeting, Washington DC, June 2014
72. American Physical Society, Nicholson Medalist Special Seminar, Mar 2014
73. University of Western Ontario, Astronomy Colloquium, Feb 2014
74. Ohio State University, Astronomy Colloquium, Feb 2014
75. University of Wisconsin—Madison, Astronomy Colloquium, Dec 2013
76. Penn State University, Astronomy Colloquium, Oct 2013
77. ** Space Telescope Science Institute, Orion Nebula Conference Plenary Talk, Oct 2013
78. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
79. ** Palomar Observatory Science Meeting, Caltech, Invited Plenary, Nov 2012
80. ** International Conference on the 50th Anniversary of Brown Dwarf Stars, Invited Plenary, Oct 2012
81. Georgia State University, Physics & Astronomy Colloquium, Oct 2012
82. ** Keck Observatory Science Meeting, UC San Diego, Invited Plenary, Oct 2012
83. ** International Conference on Cool Stars and the Sun, Invited Plenary, June 2012

84. University of Texas at Austin, Physics Colloquium, Feb 2012
85. University of Maryland College Park, Physics Colloquium, Jan 2012
86. Harvard University, Invited Seminar, Center for the Search for Extrasolar Earths, Jan 2012
87. Yale University, Astronomy Colloquium, 2011
88. Dartmouth College, Physics Colloquium, 2011
89. Massachusetts Institute of Technology, Astrophysics Colloquium, 2011
90. Yale University, Physics Colloquium, 2011
91. University of Florida, Astronomy Colloquium, 2011
92. ** International Symposium on the Origin of Stellar Masses, Exeter University, 2010
93. University of California at San Diego, Astronomy Colloquium, 2010
94. University of California at Berkeley, Astronomy Colloquium, 2010
95. ** 16th Cambridge Symposium on Cool Stars and the Sun, University of Washington, 2010
96. ** Gordon Research Conference, Mt. Holyoke College, 2010
97. University of Denver, Marsico Distinguished Lecture, 2010
98. Carnegie Institution of Washington, Astronomy Colloquium, 2010
99. ** IAU Symposium on the Ages of Stars, 2009
100. Space Telescope Science Institute, Colloquium, 2009
101. University of Chicago, Astronomy Colloquium, 2009
102. University of Iowa, Astronomy Colloquium, 2008
103. ** 14th Cambridge Workshop on Cool Stars and the Sun, University of St. Andrews, 2008
104. Space Telescope Science Institute, Caroline Herschel Distinguished Lecture, 2008
105. ** International Gemini Observatory Key Science Symposium, 2007
106. University of Michigan, Astronomy Colloquium, 2007
107. Boston University, Astronomy Colloquium, 2007
108. Villanova University, Astronomy Colloquium, 2007
109. ** From Stars to Planets Symposium, University of Florida, 2007
110. University of Maryland, Astronomy Colloquium, 2007
111. Yale University, Astronomy Colloquium, 2006
112. Columbia University, Astronomy Colloquium, 2006
113. University of Virginia, Astronomy Colloquium, 2006
114. University of Arizona, Astronomy Colloquium, 2006
115. ** Protostars & Planets V Conference, University of Hawaii, 2005
116. American Astronomical Society Special Session, San Diego, 2005
117. University of Texas at Austin, Astronomy Colloquium, 2004
118. ** Large Synoptic Survey Telescope Science Workshop, Seattle, 2004
119. ** Gemini Observatory International Symposium, Vancouver, 2004
120. SUNY Stony Brook, Astronomy Colloquium, 2004
121. American Astronomical Society Special Session, Nashville, 2003
122. University of Washington, Astronomy Colloquium, 2003
123. Carnegie Institution of Washington, Astronomy Colloquium, 2003
124. University of Minnesota, Astronomy Colloquium, 2003
125. San Francisco State University, Astronomy Colloquium, 2003
126. American Astronomical Society Special Session, Albuquerque, 2002
127. McDonald Observatory, Astronomy Colloquium, 2002
128. Laboratoire d'Astrophysique Grenoble, Astronomy Colloquium, 2002
129. ** IAU Symposium on the Formation of Binary Stars, Potsdam, Germany, 2001
130. ** IAU Symposium on the Origin and Evolution of Young Stellar Clusters, 2001
131. Ohio State University, Astronomy Colloquium, 2001
132. ** IAU Symposium on Stellar Clusters and Associations, 2000
133. University of California at Berkeley, Astronomy Colloquium, 2000

134. Utrecht University, The Netherlands, Astronomy Colloquium, 2000
135. ** European Southern Observatory International Symposium, Palermo, Italy, 1999

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

1. ** Northeastern University, Regional Neurodiversity Symposium, August 2024
2. Research Corporation for Science Advancement, Keynote Speaker, May 2024
3. ** Council of Graduate Schools, Keynote Speaker, February 2024
4. University of Connecticut, Neuroinclusion in Engineering Symposium, January 2024
5. American Astronomical Society Meeting, Diversity in Graduate Admissions Speaker, January 2024
6. ** Neurodiversity and Employment Technology Showcase Conference, October 2023
7. ** Disability:In Conference, July 2023
8. ** Autism Society of America Conference, September 2022
9. ** University of Tennessee Forum on Disabilities and Employment, August 2022
10. ** Ernst & Young Strategic Growth Forum, November 2021
11. Ford Foundation Fellows Annual Conference, November 2021
12. European Astronomical Society, Neurodiversity in Astronomy Research Presentation, June 2021
13. CBS 60 Minutes with Anderson Cooper, Feature on Neurodiversity, November 2020:
<https://www.youtube.com/watch?v=YnAUy4BM0w8>
14. European Space Agency Diversity and Inclusion Summit, Invited Presentation, November 2020
15. College Autism Summit, Invited Presentation, October 2020
16. International Astronomical Union, Invited Presentation, October 2020
17. Cornell University, Invited Presentation, September 2020
18. Johns Hopkins University, Invited Presentation, September 2020
19. ** SAP Autism at Work Conference, Invited Plenary, October 2019
20. AAU Graduate Schools Conference, Invited Presentation, September 2019
21. ** University of Michigan, NextProf Plenary Speaker, May 2019
22. University of Texas, Distinguished Diversity Speaker, March 2019
23. Harvard University, Center for Astrophysics Mentor Speaker, August 2018
24. Research Corporation for Science Advancement, National Bridge Programs Speaker, June 2018
25. University of Michigan, NextProf Science Keynote Speaker, May 2018
26. Indiana University, Distinguished Diversity Seminar, March 2018
27. University of Texas at Austin, Distinguished Diversity Seminar, February 2018
28. Princeton University, President's Distinguished Lecture, October 2017
29. Texas A&M University, Graduate School Distinguished Lecture, October 2017
30. University of Pittsburgh, Graduate School Diversity Seminar, October 2017
31. University of Pittsburgh, School of Engineering Diversity Seminar, May 2017
32. Northwestern University, Distinguished Diversity Seminar, May 2017
33. Harvard University, Herschbach Distinguished Lecture, February 2017
34. ** APS Diversity Showcase, Washington DC, January 2017
35. Ohio State University, Diversity Forum, December 2016
36. ** AAAS Graduate Deans Conference, Carnegie Mellon University, November 2016
37. ** National Academies Ford Diversity Fellows, National Academy of Sciences, Sept 2016
38. KIPP Symposium, Invited Panelist, July 2016
39. MIT, Graduate Diversity Seminar, May 2016
40. Dartmouth College, Diversity Colloquium, April 2015
41. Indiana University, Diversity Colloquium, April 2015
42. New York University, Diversity Colloquium, March 2015
43. University of Michigan, Diversity Colloquium, Feb 2015
44. ** National Academies Ford Diversity Fellows, National Academy of Sciences, Sep 2014

45. Society for the Advancement of Chicanos and Native Americans in Science, Invited Talk, Oct 2014
46. American Museum of Natural History, Invited Astro Bridge Program talk, July 2014
47. Arkansas State University, EPSCOR Bridge Program Invited Talk, Mar 2014
48. Ohio State University, Graduate Division, Invited Talk, Feb 2014
49. UC Irvine DECADE Series, Invited Talk, Jan 2014
50. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2014
51. Penn State University, Diversity Seminar, Oct 2013
52. ** American Institutes for Research, Plenary Talk, Sept 2013
53. American Museum of Natural History, Invited Colloquium, Sept 2013
54. UC Irvine, Astronomy, Invited Colloquium, July 2013
55. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
56. ** Ford Foundation Fellows Conference, National Academies of Science, Invited Plenary, Sept 2012
57. MIT, Committee on Race and Diversity, 2011
58. Yale University, Physics Department, 2011
59. American Physical Society Meeting, 2011
60. NSF MPS Distinguished Lecture, 2011
61. NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, 2011
62. ** University of Michigan Symposium on Diversity in STEM, 2010
63. American Physical Society Meeting, 2010
64. Harvard University, Center for Astrophysics, 2009
65. Women and Minorities in Astronomy Meeting, 2009
66. ** The Future of Diversity and Opportunity in Higher Education Conference, Rutgers University, 2008
67. University of Iowa, Astronomy Department, 2008
68. Boston University, Astronomy Department, 2008
69. ** Ford Foundation Fellows Annual Conference, 2008
70. American Physical Society Meeting, 2008
71. Yale University, Astronomy Department, 2007
72. ** University of Michigan ADVANCE Symposium, 2007
73. American Physical Society Gender and Diversity Conference, 2007
74. Columbia University, Astronomy Department, 2006
75. University of Texas at Austin, Astronomy Department, 2004
76. NSF IGERT PI Meeting, 2004
77. ** Women in Astronomy II Meeting, 2003
78. ** American Association of Physics Teachers Meeting, 2003
79. University of Washington, Astronomy Department, 2003
80. University of Minnesota, Astronomy Department, 2003
81. American Astronomical Society Special Session, 2003
82. Ohio State University, Astronomy Department, 2001
83. 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: 596. Citation count as of 01 September 2024: 39,134 (h index = 87)

1. **Stassun, K. G., Kounkel, M., 2024, The Astrophysical Journal, The Evolution of Stellar X-Ray Activity and Angular Momentum as Seen by eROSITA, TESS, and Gaia**
2. López-Valdivia, R., Adame, L., Zagala Lagunas, E., Román-Zúñiga, C. G., Hernández, J., Sánchez, E., Fernández-Trincado, J. G., Carigi, L., Kounkel, M., Lane, R. R., et al., 2024, Monthly Notices of the Royal Astronomical Society, Atmospheric parameters and chemical abundances within 100 pc: a sample of G, K, and M main-sequence stars

3. Giovinazzi, M. R., Cale, B., Eastman, J. D., Rodriguez, J. E., Blake, C. H., **Stassun**, K. G., Vanderburg, A., Kunimoto, M., Kraus, A. L., Twicken, J., et al., 2024, *The Astronomical Journal*, Trials and Tribulations in the Reanalysis of KELT-24 b: A Case Study for the Importance of Stellar Modeling
4. Gupta, A. F., Millholland, S. C., Im, H., Dong, J., Jackson, J. M., Carleo, I., Libby-Roberts, J., Delamer, M., Giovinazzi, M. R., Lin, A. S. J., et al., 2024, *Nature*, A hot-Jupiter progenitor on a super-eccentric retrograde orbit
5. Henderson, B. A., Casewell, S. L., Jordán, A., Brahm, R., Henning, T., Gill, S., Mayorga, L. C., Ziegler, C., **Stassun**, K. G., Goad, M. R., et al., 2024, *Monthly Notices of the Royal Astronomical Society*, TOI-2490b- The most eccentric brown dwarf transiting in the brown dwarf desert
6. Hacker, A., Díaz, R. F., Armstrong, D. J., Fernández Fernández, J., Müller, S., Delgado-Mena, E., Sousa, S. G., Adibekyan, V., **Stassun**, K. G., Collins, K. A., et al., 2024, *Monthly Notices of the Royal Astronomical Society*, TOI-2374 b and TOI-3071 b: two metal-rich sub-Saturns well within the Neptunian desert
7. Wanderley, F., Cunha, K., Kochukhov, O., Smith, V. V., Souto, D., Cao, L., Covey, K., Majewski, S. R., Martinez, C., Muirhead, P. S., et al., 2024, *The Astrophysical Journal*, Magnetic Fields in M-dwarf Members of the Pleiades Open Cluster Using APOGEE Spectra
8. Bhalotia, V., Huber, D., van Saders, J. L., Metcalfe, T. S., **Stassun**, K. G., White, T. R., Aguirre Børsen-Koch, V., Ball, W. H., Basu, S., Serenelli, A. M., et al., 2024, *The Astrophysical Journal*, A New Asteroseismic Kepler Benchmark Constrains the Onset of Weakened Magnetic Braking in Mature Sun-like Stars
9. Grimbale, W., Kastner, J., Pinte, C., Sargent, B., Principe, D. A., Dickson-Vandervelde, A., Belén Aguayo, A., Caceres, C., Schreiber, M. R., **Stassun**, K. G., 2024, *The Astrophysical Journal*, The Empirical and Radiative Transfer Hybrid (EaRTH) Disk Model: Merging Analyses of Protoplanetary Dust Disk Mineralogy and Structure
10. Brady, M., Bean, J. L., Seifahrt, A., Kasper, D., Luque, R., Stefánsson, G., Stürmer, J., Charbonneau, D., Collins, K. A., Doty, J. P., et al., 2024, *The Astronomical Journal*, Early Results from the HUMDRUM Survey: A Small, Earth-mass Planet Orbits TOI-1450A
11. Kallinger, T., Weiss, W. W., Kuschnig, R., **Stassun**, K. G., 2024, *Astronomy and Astrophysics*, A benchmark rapidly oscillating chemically peculiar (roAp) star: α Cir
12. Gillon, M., Pedersen, P. P., Rackham, B. V., Dransfield, G., Ducrot, E., Barkaoui, K., Burdanov, A. Y., Schroffenegger, U., Gómez Maqueo Chew, Y., Lederer, S. M., et al., 2024, *Nature Astronomy*, Detection of an Earth-sized exoplanet orbiting the nearby ultracool dwarf star SPECULOOS-3
13. Barkaoui, K., Schwarz, R. P., Narita, N., Mistry, P., Magliano, C., Hirano, T., Maity, M., Burgasser, A. J., Rackham, B. V., Murgas, F., et al., 2024, *Astronomy and Astrophysics*, Three short-period Earth-sized planets around M dwarfs discovered by TESS: TOI-5720 b, TOI-6008 b, and TOI-6086 b
14. Timmermans, M., Dransfield, G., Gillon, M., Triaud, A. H. M. J., Rackham, B. V., Aganze, C., Barkaoui, K., Briceño, C., Burgasser, A. J., Collins, K. A., et al., 2024, *Astronomy and Astrophysics*, TOI-4336 A b: A temperate sub-Neptune ripe for atmospheric characterization in a nearby triple M-dwarf system
15. Serna, J., Pinzón, G., Hernández, J., Manzo-Martínez, E., Mauco, K., Román-Zúñiga, C. G., Calvet, N., Briceño, C., López-Valdivia, R., Kounkel, M., et al., 2024, *The Astrophysical Journal*, Rotational Evolution of Classical T Tauri Stars: Models and Observations
16. Tey, E., Shporer, A., Lin, Z., **Stassun**, K. G., Lissauer, J. J., Hellier, C., Collins, K. A., Collins, K. I., Wingham, G., Relles, H. M., et al., 2024, *The Astronomical Journal*, GJ 238 b: A 0.57 Earth Radius Planet Orbiting an M2.5 Dwarf Star at 15.2 pc
17. Medan, I., Lépine, S., Hartman, Z., **Stassun**, K. G., 2024, *The Astronomical Journal*, Detecting New Visual Binaries in Gaia DR3 with Gaia and Two Micron All Sky Survey (2MASS) Photometry. II. Speckle Observations of 16 Low-separation Systems
18. Battley, M. P., Collins, K. A., Ulmer-Moll, S., Quinn, S. N., Lendl, M., Gill, S., Brahm, R., Hobson, M. J., Osborn, H. P., Deline, A., et al., 2024, *Astronomy and Astrophysics*, NGTS-30b/TOI-4862b: An 1 Gyr old 98-day transiting warm Jupiter
19. Schwöpe, A., Kurpas, J., Baecke, P., Knauff, K., Stütz, L., Tubín-Arenas, D., Standke, A., Anderson, S. F.,

- Bauer, F., Brandt, W. N., et al., 2024, *Astronomy and Astrophysics*, Compact white dwarf binaries in the combined SRG/eROSITA/SDSS eFEDS survey
20. Gillon, M., Pedersen, P. P., Rackham, B. V., Dransfield, G., Ducrot, E., Barkaoui, K., Burdanov, A. Y., Schroffenegger, U., Gómez Maqueo Chew, Y., Lederer, S. M., et al., 2024, *Nature Astronomy*, Detection of an Earth-sized exoplanet orbiting the nearby ultracool dwarf star SPECULOOS-3
 21. Roberts, J. D., Pinsonneault, M. H., Johnson, J. A., Zinn, J. C., Weinberg, D. H., Vrad, M., Tayar, J., Stello, D., Mosser, B., Johnson, J. W., et al., 2024, *Monthly Notices of the Royal Astronomical Society*, Nature versus nurture: distinguishing effects from stellar processing and chemical evolution on carbon and nitrogen in red giant stars
 22. Eisner, N. L., Grunblatt, S. K., Barragán, O., Faridani, T. H., Lintott, C., Aigrain, S., Johnston, C., Mason, I. R., **Stassun**, K. G., Bedell, M., et al., 2024, *The Astronomical Journal*, Planet Hunters TESS. V. A Planetary System Around a Binary Star, Including a Mini-Neptune in the Habitable Zone
 23. Desai, A., Turtelboom, E. V., Harada, C. K., Dressing, C. D., Rice, D. R., Murphy, J. M. A., Brinkman, C. L., Chontos, A., Crossfield, I. J. M., Dai, F., et al., 2024, *The Astronomical Journal*, The TESS-Keck Survey. XVIII. A Sub-Neptune and Spurious Long-period Signal in the TOI-1751 System
 24. Sizemore, L., Llanes, D., Kounkel, M., Hutchinson, B., **Stassun**, K. G., Chandra, V., 2024, *The Astronomical Journal*, A Self-consistent Data-driven Model for Determining Stellar Parameters from Optical and Near-infrared Spectra
 25. Hahlin, A., Kochukhov, O., Rains, A. D., Morin, J., Hussain, G., Hebb, L., **Stassun**, K., 2024, *Astronomy and Astrophysics*, Multi-scale magnetic field investigation of the M-dwarf eclipsing binary CU Cancri
 26. Murgas, F., Pallé, E., Orell-Miquel, J., Carleo, I., Peña-Moñino, L., Pérez-Torres, M., Watkins, C. N., Jeffers, S. V., Azzaro, M., Barkaoui, K., et al., 2024, *Astronomy and Astrophysics*, Wolf 327b: A new member of the pack of ultra-short-period super-Earths around M dwarfs
 27. Serrano Bell, J., Díaz, R. F., Hébrard, G., Martioli, E., Heidari, N., Sousa, S., Boisse, I., Almenara, J. M., Alonso-Santiago, J., Barros, S. C. C., et al., 2024, *Astronomy and Astrophysics*, TOI-1199 b and TOI-1273 b: Two new transiting hot Saturns detected and characterized with SOPHIE and TESS
 28. Mueller, M. A., Johns-Krull, C. M., **Stassun**, K. G., Dixon, D. M., 2024, *The Astrophysical Journal*, Tests of Disk-locking in T Tauri Stars of the Orion Nebula Cluster
 29. Arseneau, S., Chandra, V., Hwang, H.-C., Zakamska, N. L., Pallathadka, G. A., Crumpler, N. R., Hermes, J. J., El-Badry, K., Rix, H.-W., **Stassun**, K. G., et al., 2024, *The Astrophysical Journal*, Measuring the Mass–Radius Relation of White Dwarfs Using Wide Binaries
 30. Saad, S., Lane, K., Kounkel, M., **Stassun**, K. G., López-Valdivia, R., Kim, J. S., Peña Ramírez, K., Stringfellow, G. S., Román-Zúñiga, C. G., Hernández, J., et al., 2024, *The Astronomical Journal*, ABYSS. II. Identification of Young Stars in Optical SDSS Spectra and Their Properties
 31. Page, E., Pepper, J., Wright, D., Rodriguez, J. E., Wittenmyer, R. A., Kane, S. R., Addison, B., Bedding, T., Bowler, B. P., Barclay, T., et al., 2024, *The Astronomical Journal*, TOI-1994b: A Low-mass Eccentric Brown Dwarf Transiting A Subgiant Star
 32. Ji, A. P., Curtis, S., Storm, N., Chandra, V., Schlaufman, K. C., **Stassun**, K. G., Heger, A., Pignatari, M., Price-Whelan, A. M., Bergemann, M., et al., 2024, *The Astrophysical Journal*, Spectacular Nucleosynthesis from Early Massive Stars
 33. Stone-Martinez, A., Holtzman, J. A., Imig, J., Nitschelm, C., **Stassun**, K. G., Brownstein, J. R., 2024, *The Astronomical Journal*, Spectroscopic Distance, Mass, and Age Estimations for APOGEE DR17
 34. Schonhut-Stasik, J., Zinn, J. C., **Stassun**, K. G., Pinsonneault, M., Johnson, J. A., Warfield, J. T., Stello, D., Elsworth, Y., García, R. A., Mathur, S., et al., 2024, *The Astronomical Journal*, The APO-K2 Catalog. I. 7500 Red Giants with Fundamental Stellar Parameters from APOGEE DR17 Spectroscopy and K2-GAP Asteroseismology
 35. Carleo, I., Malavolta, L., Desidera, S., Nardiello, D., Wang, S., Turrini, D., Lanza, A. F., Baratella, M., Marzari, F., Benatti, S., et al., 2024, *Astronomy and Astrophysics*, The GAPS programme at TNG. L. TOI-4515 b: An eccentric warm Jupiter orbiting a 1.2 Gyr-old G-star
 36. Mantovan, G., Malavolta, L., Desidera, S., Zingales, T., Borsato, L., Piotto, G., Maggio, A., Locci, D.,

- Polychroni, D., Turrini, D., et al., 2024, *Astronomy and Astrophysics*, The GAPS programme at TNG. XLIX. TOI-5398, the youngest compact multi-planet system composed of an inner sub-Neptune and an outer warm Saturn
37. Kounkel, M., Statti, M., Kulkarni, A., **Stassun**, K. G., Sun, M., 2024, *Monthly Notices of the Royal Astronomical Society*, Stellar properties of an actively accreting Algol-type eclipsing binary 2M16212643+2136590
 38. Dransfield, G., Timmermans, M., Triaud, A. H. M. J., Dévora-Pajares, M., Aganze, C., Barkaoui, K., Burgasser, A. J., Collins, K. A., Cointepas, M., Ducrot, E., et al., 2024, *Monthly Notices of the Royal Astronomical Society*, A 1.55 R_⊕ habitable-zone planet hosted by TOI-715, an M4 star near the ecliptic South Pole
 39. Metcalfe, T. S., Strassmeier, K. G., Ilyin, I. V., Buzasi, D., Kochukhov, O., Ayres, T. R., Basu, S., Chontos, A., Finley, A. J., See, V., et al., 2024, *The Astrophysical Journal*, Weakened Magnetic Braking in the Exoplanet Host Star 51 Peg
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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.