

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

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

Legacy Fellow of the American Astronomical Society—2020

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-present

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 Academy of Sciences Committee on Increasing Diversity and Inclusion in the Leadership of Competed Space Missions—2021-present
 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-present
 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-present
 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-present
 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-present
 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 (assistant 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)

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. Marina Kounkel (Vanderbilt University)—2021-present
2. Nina Hernitschek (Vanderbilt University)—2019-present
3. David Caudel (Vanderbilt University)—2017-19
4. Fernanda Elliott (Vanderbilt University)—2017-20
5. Natalie Hinkel (Vanderbilt University)—2016-18
6. Garrett Somers (Vanderbilt University)—2016-19
7. Caleb Wheeler (Fisk University)—2016-18
8. Ryan Oelkers (Vanderbilt University)—2016-19
9. Jedidah Isler (Vanderbilt University)—2015-18
10. Karen Collins (Vanderbilt University)—2015-18
11. Jonathan Bird (Vanderbilt University)—2014-19
12. Emmanuel Rowe (Fisk University)—2013-18
13. Rodolfo Montez (Vanderbilt University)—2012-16
14. Nathan De Lee (Vanderbilt University)—2011-13
15. Phillip Cargile (Vanderbilt University)—2010-14
16. Leslie Hebb (Vanderbilt University)—2009-13
17. Martin Paegert (Vanderbilt University)—2009-15

18. Ian Nieves (Fisk University)—2009-11
19. Joshua Pepper (Vanderbilt University)—2007-13
20. Erika Grundstrom (Vanderbilt University)—2007-10
21. 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-present
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 dissertation committees served:

1. Victor Calderon (Vanderbilt University)—2014-20
2. Bernadette Cogswell (Vanderbilt University)—2013-14
3. Brittany Kamai (Vanderbilt University, NSF Graduate Research Fellow)—2011-16
4. Matthew Richardson (Vanderbilt University)—2011-16
5. Heather Cegla (Queen's University Belfast)—2010-13
6. Matt McCrumb (Queen's University Belfast)—2010-12
7. Cullen Blake (Harvard University)—2009
8. Ebonee Walker (Vanderbilt University)—2008-12
9. 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 Egner (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-present
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. Kim Miskovetz (University of Hawaii)—2020
2. Max Brodheim (Hobart College)—2019
3. Caitlin Moeller (UMass Amherst)—2018
4. Edwin Santiago (University of Costa Rica)—2018
5. Richard Nederlander (Columbia University)—2017
6. Zameese Peters (Norfolk State University)—2017
7. John Thomas (Fisk University)—2017
8. Michael Davies (Fisk University)—2016
9. Miguel Botran (Oberlin College)—2016
10. Savannah Jacklin (Villanova University)—2014
11. Margaret Morris (Brandeis)—2014
12. Haley Tibbs (University of Arizona)—2014
13. Ethan Raymond (Vanderbilt University)—2014
14. Emily Rolen (Vanderbilt University)—2014
15. Rachel Gibbs (Vanderbilt University)—2013
16. Mahmoud Parvizi (Austin Peay State University)—2013
17. Sam Swihart (University of Michigan)—2013
18. Enmanuel Sanchez (Florida International University)—2013
19. Marialis Rosario (University of Puerto Rico)—2012-13
20. Sal Tajerina (University of Puerto Rico)—2012
21. Gabriel Jaffe (UT Austin)—2012
22. Allyn Durbin (Villanova University)—2011
23. Charee Peters (University of Denver)—2010
24. Alex Richert (University of Hawaii)—2010
25. Roxanna Shohadaee (University of Tennessee)—2010
26. Mark Bryant (Southern University)—2009
27. Heather Cegla (Minnesota State University)—2009
28. Eugenio Garcia (Johns Hopkins University)—2009
29. Francilia Samuel (Depauw University)—2008

30. Nathalia Alzate (Florida Tech)—2007
31. India Anderson (Southern University)—2007
32. Ximena Fernandez (Vassar College)—2007
33. Brittany Kamai (University of Hawaii)—2007
34. Trey Mack (University of North Carolina)—2006

GRANTS AS PI OR CO-PI

Agency	Period	Role	Type	Title	Amount
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	2019-21	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	2005-07	Co-PI	Research	The Angular Momentum Evolution of Young,	\$67K

Spitzer				Low-Mass Stars	
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. Caltech, Astronomy Colloquium, December 2021
2. University of Pittsburgh, Astronomy Seminar, December 2021
3. University of Wisconsin, Astronomy Colloquium, October 2021
4. University of Chicago, Astronomy Colloquium, May 2021
5. University of Maryland, Astronomy Colloquium, April 2021
6. University of Minnesota, Astronomy Colloquium, March 2021
7. Princeton University, Astronomy Colloquium, March 2021
8. Harvard University, Physics Colloquium, March 2021
9. ** HHMI, HHMI Professors Research Symposium, February 2021
10. Large Synoptic Survey Telescope Consortium, Astronomy Seminar, October 2020
11. University of Texas, Physics Colloquium, September 2020
12. Harvard University, Physics Colloquium, September 2020
13. NASA Goddard Space Flight Center, Astronomy Colloquium, September 2020
14. University of California at Berkeley, Astronomy Colloquium, July 2020
15. University of North Carolina, Astronomy Colloquium, July 2020
16. University of Washington, Astronomy Colloquium, April 2020
17. National Science Foundation Human-Technology Frontiers Conference, Invited Talk, February 2020
18. ** National Academies Ford Fellows Conference, Invited Plenary, October 2019
19. ** Howard Hughes Medical Institute, Invited Prize Lecture, July 2019
20. Research Corporation for Science Advancement, Invited Prize Lecture, July 2019
21. University of California at Santa Barbara, Astronomy Colloquium, May 2019
22. University of Toledo, Astronomy Colloquium, April 2019
23. Indiana University, Distinguished Lecturer, April 2019
24. University of Cincinnati, Astronomy Colloquium, March 2019
25. New York University, Invited Presentation, March 2019
26. University of Pittsburgh, Invited Presentation, March 2019
27. University of California at Irvine, Invited Presentation, March 2019
28. University of Michigan, Invited Presentation, February 2019
29. University of Florida, Astronomy Colloquium, January 2019
30. California Institute of Technology, Thirty Meter Telescope Symposium, December 2018
31. Princeton University and Institute for Advanced Study, Astronomy Colloquium, November 2018

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

82. University of California at Berkeley, Astronomy Colloquium, 2010
83. ** 16th Cambridge Symposium on Cool Stars and the Sun, University of Washington, 2010
84. ** Gordon Research Conference, Mt. Holyoke College, 2010
85. University of Denver, Marsico Distinguished Lecture, 2010
86. Carnegie Institution of Washington, Astronomy Colloquium, 2010
87. ** IAU Symposium on the Ages of Stars, 2009
88. Space Telescope Science Institute, Colloquium, 2009
89. University of Chicago, Astronomy Colloquium, 2009
90. University of Iowa, Astronomy Colloquium, 2008
91. ** 14th Cambridge Workshop on Cool Stars and the Sun, University of St. Andrews, 2008
92. Space Telescope Science Institute, Caroline Herschel Distinguished Lecture, 2008
93. ** International Gemini Observatory Key Science Symposium, 2007
94. University of Michigan, Astronomy Colloquium, 2007
95. Boston University, Astronomy Colloquium, 2007
96. Villanova University, Astronomy Colloquium, 2007
97. ** From Stars to Planets Symposium, University of Florida, 2007
98. University of Maryland, Astronomy Colloquium, 2007
99. Yale University, Astronomy Colloquium, 2006
100. Columbia University, Astronomy Colloquium, 2006
101. University of Virginia, Astronomy Colloquium, 2006
102. University of Arizona, Astronomy Colloquium, 2006
103. ** Protostars & Planets V Conference, University of Hawaii, 2005
104. American Astronomical Society Special Session, San Diego, 2005
105. University of Texas at Austin, Astronomy Colloquium, 2004
106. ** Large Synoptic Survey Telescope Science Workshop, Seattle, 2004
107. ** Gemini Observatory International Symposium, Vancouver, 2004
108. SUNY Stony Brook, Astronomy Colloquium, 2004
109. American Astronomical Society Special Session, Nashville, 2003
110. University of Washington, Astronomy Colloquium, 2003
111. Carnegie Institution of Washington, Astronomy Colloquium, 2003
112. University of Minnesota, Astronomy Colloquium, 2003
113. San Francisco State University, Astronomy Colloquium, 2003
114. American Astronomical Society Special Session, Albuquerque, 2002
115. McDonald Observatory, Astronomy Colloquium, 2002
116. Laboratoire d'Astrophysique Grenoble, Astronomy Colloquium, 2002
117. ** IAU Symposium on the Formation of Binary Stars, Potsdam, Germany, 2001
118. ** IAU Symposium on the Origin and Evolution of Young Stellar Clusters, 2001
119. Ohio State University, Astronomy Colloquium, 2001
120. ** IAU Symposium on Stellar Clusters and Associations, 2000
121. University of California at Berkeley, Astronomy Colloquium, 2000
122. Utrecht University, The Netherlands, Astronomy Colloquium, 2000
123. ** European Southern Observatory International Symposium, Palermo, Italy, 1999

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

1. ** Ernst & Young Strategic Growth Forum, November 2021
2. Ford Foundation Fellows Annual Conference, November 2021
3. European Astronomical Society, Neurodiversity in Astronomy Research Presentation, June 2021
4. CBS 60 Minutes with Anderson Cooper, Feature on Neurodiversity, November 2020:
<https://www.youtube.com/watch?v=YnAUy4BM0w8>

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

55. Harvard University, Center for Astrophysics, 2009
56. Women and Minorities in Astronomy Meeting, 2009
57. ** The Future of Diversity and Opportunity in Higher Education Conference, Rutgers University, 2008
58. University of Iowa, Astronomy Department, 2008
59. Boston University, Astronomy Department, 2008
60. ** Ford Foundation Fellows Annual Conference, 2008
61. American Physical Society Meeting, 2008
62. Yale University, Astronomy Department, 2007
63. ** University of Michigan ADVANCE Symposium, 2007
64. American Physical Society Gender and Diversity Conference, 2007
65. Columbia University, Astronomy Department, 2006
66. University of Texas at Austin, Astronomy Department, 2004
67. NSF IGERT PI Meeting, 2004
68. ** Women in Astronomy II Meeting, 2003
69. ** American Association of Physics Teachers Meeting, 2003
70. University of Washington, Astronomy Department, 2003
71. University of Minnesota, Astronomy Department, 2003
72. American Astronomical Society Special Session, 2003
73. Ohio State University, Astronomy Department, 2001
74. 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: 470. Citation count as of 1 April 2022: 26,131 (h index = 72)

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2. Abdurro'uf, Accetta, K., Aerts, C., Silva Aguirre, and 338 colleagues, 2022, "The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data", *The Astrophysical Journal Supplement Series*, 259, 35
3. Sprague, D., Culhane, C., Kounkel, M., and 17 colleagues, 2022, "APOGEE Net: An Expanded Spectral Model of Both Low-mass and High-mass Stars", *The Astronomical Journal*, 163, 152
4. Silverstein, M. L., Schlieder, J. E., Barclay, T., and 48 colleagues, 2022, "The LHS 1678 System: Two Earth-sized Transiting Planets and an Astrometric Companion Orbiting an M Dwarf Near the Convective Boundary at 20 pc", *The Astronomical Journal*, 163, 151
5. Günther, M. N., Berardo, D. A., Ducrot, E., and 37 colleagues, 2022, "Complex Modulation of Rapidly Rotating Young M Dwarfs: Adding Pieces to the Puzzle", *The Astronomical Journal*, 163, 144
6. Mazzola Daher, C., Badenes, C., Tayar, J., and 18 colleagues, 2022, "Stellar multiplicity and stellar rotation: Insights from APOGEE", *Monthly Notices of the Royal Astronomical Society*,
7. Gan, T., Lin, Z., Wang, S. X., and 46 colleagues, 2022, "TOI-530b: a giant planet transiting an M-dwarf detected by TESS", *Monthly Notices of the Royal Astronomical Society*, 511, 83
8. Souto, D., Cunha, K., Smith, V. V., and 18 colleagues, 2022, "Detailed Chemical Abundances for a Benchmark Sample of M Dwarfs from the APOGEE Survey", *The Astrophysical Journal*, 927, 123
9. Hedges, C., Hughes, A., Zhou, G., and 49 colleagues, 2022, "Erratum: "TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up" (2021, AJ, 162, 54)", *The Astronomical Journal*, 163, 143
10. Wilson, R. F., Cañas, C. I., Majewski, S. R., and 15 colleagues, 2022, "The Influence of 10 Unique Chemical Elements in Shaping the Distribution of Kepler Planets", *The Astronomical Journal*, 163, 128
11. Fukui, A., Kimura, T., Hirano, T., and 60 colleagues, 2022, "TOI-2285b: A 1.7 Earth-radius planet near the habitable zone around a nearby M dwarf", *Publications of the Astronomical Society of Japan*, 74,

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12. Wittenmyer, R. A., Clark, J. T., Trifonov, T., and 41 colleagues, 2022, "TOI-1842b: A Transiting Warm Saturn Undergoing Re-inflation around an Evolving Subgiant", *The Astronomical Journal*, 163, 82
13. Huber, D., White, T. R., Metcalfe, T. S., and 50 colleagues, 2022, "A 20 Second Cadence View of Solar-type Stars and Their Planets with TESS: Asteroseismology of Solar Analogs and a Recharacterization of π Men c", *The Astronomical Journal*, 163, 79
14. Heidari, N., Boisse, I., Orell-Miquel, J., and 90 colleagues, 2022, "HD 207897 b: A dense sub-Neptune transiting a nearby and bright K-type star", *Astronomy and Astrophysics*, 658, A176
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24. Hedges, C., Hughes, A., Zhou, G., and 49 colleagues, 2021, "Erratum: "TOI-2076 and TOI-1807: Two young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up" (2021, AJ, 162, 54)", *The Astronomical Journal*, 162, 305
25. Beaton, R. L., Oelkers, R. J., Hayes, C. R., and 58 colleagues, 2021, "Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey", *The Astronomical Journal*, 162, 302
26. Addison, B. C., Knudstrup, E., Wong, I., and 70 colleagues, 2021, "TOI-1431b/MASCARA-5b: A Highly Irradiated Ultrahot Jupiter Orbiting One of the Hottest and Brightest Known Exoplanet Host Stars", *The Astronomical Journal*, 162, 292
27. Wong, I., Shporer, A., Zhou, G., and 56 colleagues, 2021, "TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit", *The Astronomical Journal*, 162, 256
28. Kostov, V. B., Powell, B. P., Orosz, J. A., and 85 colleagues, 2021, "TIC 172900988: A Transiting Circumbinary Planet Detected in One Sector of TESS Data", *The Astronomical Journal*, 162, 234
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30. Martin, D. V., El-Badry, K., Hodžić, V. K., and 36 colleagues, 2021, "TOI-1259Ab - a gas giant planet with 2.7 per cent deep transits and a bound white dwarf companion", *Monthly Notices of the Royal Astronomical Society*, 507, 4132

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42. Miller, A., Kounkel, M., Sun, M., and 5 colleagues, 2021, "2M17091769+3127589: A Mass-transfer Binary with an Extreme Mass Ratio", *The Astronomical Journal*, 162, 131
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48. Otegi, J. F., Bouchy, F., Helled, R., and 48 colleagues, 2021, "TESS and HARPS reveal two sub-Neptunes around TOI 1062", *Astronomy and Astrophysics*, 653, A105
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3. Stassun, K.G. 2017, *Journal of the American Chemical Society*, "The Fisk-Vanderbilt Masters-to-PhD Bridge Program: Broadening Participation of Underrepresented Minorities in the Physical Sciences"
4. Stassun, K.G. 2010, Expert Witness Testimony, [US House of Representatives Committee on Science and Technology, Broadening Participation in STEM](#)
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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.