

CURRICULUM VITAE:

KEIVAN GUADALUPE STASSUN

Vanderbilt University, Department of Physics & Astronomy

VU Station B 1807, Nashville, TN 37235

Phone: 615-322-2828, FAX: 615-343-7263

keivan.stassun@vanderbilt.edu

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 Physics and Astronomy, 2011-present

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

Co-Director, Fisk-Vanderbilt Masters-to-PhD Bridge Program, 2004-present

Associate Professor of Physics and Astronomy, 2008-11

Assistant Professor of Physics and Astronomy, 2003-08

Fisk University

Adjunct 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 program, graduate course in science education research*

Mentor: Terrence Millar

HONORS AND AWARDS

Fellow of the American Association for the Advancement of Science—2012-

Martin Luther King Visiting Professor, Massachusetts Institute of Technology—2011-12

Marsico Distinguished Visiting Scholar, University of Denver—2010

Fletcher Foundation Fellow (\$50,000 prize for significant work advancing race relations)—2009-10

Caroline Herschel Distinguished Visiting Scholar, Space Telescope Science Institute—2007-08

Ford Foundation Fellow (sabbatical leave at Fisk University)—2007-08

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

Chair, Committee on the Participation of Minorities, Sloan Digital Sky Survey—2013-present
Chair, Committee on Diversity and the Future of the Workforce, Associated Universities for Research in Astronomy—2012-present
Invited Member, NSF Blue Ribbon Panel on CAREER Awards Program—2012
General Councillor, American Physical Society—2011-present
NSF Committee on Equal Opportunity in Science and Engineering—2011-present
Invited Member, Scientific Organizing Committee, Ringberg Conference on Brown Dwarfs—2011-12
Invited Member, Scientific Organizing Committee, 17th Conference on Cool Stars and the Sun—2011-12
Invited witness, House of Representatives Committee on Science and Technology, Hearing on Broadening Participation in STEM—March 2010
Chair, Survey Science Team, Sloan Digital Sky Survey III MARVELS project—2010-present
Executive Committee Member, Sloan Digital Sky Survey III—2010-present
Advisory Council Member, Sloan Digital Sky Survey III—2010-present
Vice Chair, Large Synoptic Space Telescope, Astrominformatics Science Working Group—2010-present
Executive Committee Member, Large Synoptic Survey Telescope—2009-present
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-present
Director, Vanderbilt Initiative in Data-Intensive Astrophysics (VIDA)—2007-present
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-present
Co-Director, Fisk Astronomy and Space Science Training (FASST) program—2004-present
Co-Director, Fisk-Vanderbilt Masters-to-PhD Bridge Program—2003-present
Organizing Committee, National Society of Black Physicists Annual Conference—2004-present
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 (AST division, REC division, DGE division) and NASA (Spitzer, HST)

Manuscript referee: *Astrophysical Journal*, *Astronomical Journal*, *Astronomy & Astrophysics*, *Nature*

STUDENTS AND POSTDOCS ADVISED

Former postdoctoral associates placed in permanent positions:

1. David James (currently tenure-track astronomer at CTIO)
2. Erika Grundstrom (currently director of astronomy laboratories at Vanderbilt University)
3. Leslie Hebb (currently assistant professor at Hobart & William Smith College)
4. Joshua Pepper (currently assistant professor at Lehigh University)
5. Saurav Dhital (currently research scientist at Embry Riddle Aeronautical University)

PhDs completed:

1. Alicia Aarnio, PhD 2010 (currently postdoc at U Michigan)
2. Phillip Cargile, PhD 2010 (currently postdoc at Vanderbilt)
3. Yilen Gomez Maqueo Chew, PhD 2010 (currently postdoc at Queen's University Belfast)
4. Saurav Dhital, PhD 2012 (currently research scientist at Embry Riddle Aeronautical University)
5. Thompson LeBlanc, PhD 2013 (currently staff scientist at Space Telescope Science Institute)
6. Julia Bodnarik, PhD 2013 (currently postdoc at University of Arizona)

Postdoctoral associates supervised:

1. Rodolfo Montez (Vanderbilt University)—2012-present
2. Saurav Dhital (Boston University)—2012-13
3. Nathan De Lee (Vanderbilt University)—2011-present
4. Phillip Cargile (Vanderbilt University)—2010-present
5. Leslie Hebb (Vanderbilt University)—2009-13
6. Martin Paegert (Vanderbilt University)—2009-present
7. Ian Nieves (Fisk University)—2009-11
8. Joshua Pepper (Vanderbilt University)—2007-13
9. Erika Grundstrom (Vanderbilt University)—2007-10
10. David James (Vanderbilt University)—2004-08

PhD dissertations supervised, dissertation committees chaired:

1. Teresa Monsue (Vanderbilt University)—2013-present
2. Rose Perea (Vanderbilt University)—2013-present
3. Joseph Rodriguez (Vanderbilt University)—2013-present
4. Kyle Conroy (Vanderbilt University)—2012-present
5. Victor Garcia (Vanderbilt University)—2012-present
6. Michael Lund (Vanderbilt University)—2012-present
7. Fabienne Bastien (Vanderbilt University, NASA Graduate Research Fellow)—2010-present
8. Trey Mack (Vanderbilt University)—2009-present
9. Julia Bodnarik (Vanderbilt University, NASA Co-op Fellow)—2007-13
10. Deatrick Foster (Vanderbilt University, NASA Graduate Research Fellow)—2007-present
11. Thompson LeBlanc (Vanderbilt University, NASA Graduate Research Fellow)—2006-13
12. Saurav Dhital (Vanderbilt University)—2006-12
13. Phillip Cargile (Vanderbilt University)—2005-10
14. Alicia Aarnio (Vanderbilt University)—2005-10
15. Yilen Gomez Maqueo Chew (Vanderbilt University)—2004-10

PhD dissertation committees served:

1. Brittany Kamai (Vanderbilt University, NSF Graduate Research Fellow)—2011-present
2. Matthew Richardson (Vanderbilt University)—2011-present
3. Heather Cegla (Queen's University Belfast)—2010-13
4. Matt McCrumb (Queen's University Belfast)—2010-12

5. Cullen Blake (Harvard University)—2009
6. Ebonee Walker (Vanderbilt University)—2008-12
7. Sonali Shukla (Vanderbilt University)—2007-09

MA theses supervised, thesis committees chaired:

1. Joseph Rodriguez (Fisk University, now PhD student at Vanderbilt)—2012-13
2. Aaron Juarez (Fisk University)—2012-present
3. Charee Peters (Fisk University, now PhD student at UW Madison)—2011-13
4. Rose Perea (Fisk University, now PhD student at Vanderbilt)—2011-13
5. Teresa Monsue (Fisk University, now PhD student at Vanderbilt)—2011-13
6. Dan Burger (Vanderbilt University, now staff researcher at Vanderbilt)—2011-13
7. Eugenio Garcia (Fisk University, now PhD student at Vanderbilt)—2010-12
8. Fabienne Bastien (Fisk University, now PhD student at Vanderbilt)—2008-10
9. Felipe Colazo (Fisk University, now technical staff at Gemini South Observatory)—2008-10
10. Sharina Haynes (Fisk University, now PhD student at Delaware State University)—2008-10
11. Brittany Kamai (Fisk University)—2008-11
12. Erica Morgan (Fisk University)—2008-11
13. Matthew Richardson (Fisk University, now PhD student at Vanderbilt University)—2008-10
14. Trey Mack (Fisk University, now PhD student at Vanderbilt University)—2007-09
15. Melissa Harrison (Fisk University, now senior scientist at Intel Corporation)—2005-07
16. Jedidah Isler (Fisk University, now postdoc at Syracuse University)—2005-07
17. Julia Bodnarik (Fisk University, now postdoc at University of Arizona)—2005-07
18. Luisa Zambrano (Fisk University, now PhD student at University of Texas Brownsville)—2005-06
19. Helen Jackson (Fisk University, now PhD student at Air Force Institute of Technology)—2004-06
20. Tomas Yan (Fisk University, now PhD student at Vanderbilt University)—2004-07
21. Thompson LeBlanc (Fisk University, now scientist at Space Telescope Science Institute)—2004-06

MA thesis committees served:

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

BA honors theses supervised, thesis committees chaired:

1. Rachel Gibbs (Vanderbilt University)—2013-
2. Woody Austin (Vanderbilt University)—2011-12
3. Alisha Kundert (Vanderbilt University)—2010-12
4. Kristie Canaday (Fisk University)—2010-11
5. Byron Price (Vanderbilt University)—2010-11
6. Daniel Lee (Fisk University)—2009-11
7. Dylan Wood (Vanderbilt University, now PhD student at UNLV)—2009-11
8. Rebecca Rattray (Vanderbilt University, now PhD student at Virginia Tech)—2010-11
9. Dan Burger (Vanderbilt University, now technical staff at Vanderbilt University)—2009-10
10. Calen Henderson (Vanderbilt University, now PhD student at Ohio State University)—2006-09
11. Lawrence Staten (Vanderbilt University, completed MBA at Vanderbilt University)—2006-07
12. James Ovelmen (Vanderbilt University, now PhD student at University of Texas)—2005-06
13. Felipe Colazo (Fisk University, now technical staff at Gemini South Observatory)—2005-08
14. David Hill (Fisk University, now MA student at Fisk University)—2005-08
15. Matthew Richardson (Fisk University, now PhD student at Vanderbilt University)—2005-08
16. Matthew Miller (Swarthmore College, now working in industry)—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. Mahmoud Parvizi (Austin Peay State University)—2013
2. Sam Swihart (University of Michigan)—2013
3. Enmanuel Sanchez (Florida International University)—2013
4. Marialis Rosario (University of Puerto Rico)—2012-13
5. Sal Tajerina (University of Puerto Rico)—2012
6. Gabriel Jaffe (UT Austin)—2012
7. Allyn Durbin (Villanova University)—2011
8. Charee Peters (University of Denver, now PhD student at UW Madison)—2010
9. Alex Richert (University of Hawaii, now PhD student at Penn State University)—2010
10. Roxanna Shohadaee (University of Tennessee)—2010
11. Mark Bryant (Southern University)—2009
12. Heather Cegla (Minnesota State University, now PhD student at Queens University Belfast)—2009
13. Eugenio Garcia (Johns Hopkins University, now MA student at Fisk)—2009
14. Francilia Samuel (Depauw University)—2008
15. Nathalia Alzate (Florida Tech, now MA student at Northern Arizona University)—2007
16. India Anderson (Southern University, now PhD student at Louisiana State University)—2007
17. Ximena Fernandez (Vassar College, now PhD student at Columbia University)—2007
18. Brittany Kamai (University of Hawaii, now PhD student at Vanderbilt)—2007
19. Trey Mack (University of North Carolina, now PhD student at Vanderbilt)—2006

GRANTS AS PI OR CO-PI

Agency	Period	Role	Type	Title	Amount
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 PHY	2010-13	Co-PI	Training	Research Experiences for Undergraduates in Physics at Vanderbilt University	\$328K
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	2009-11	PI	Research	Discovery Grant: Development of REDDnet for Data-	\$200K

University				Intensive Astrophysics Applications	
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
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

GRANTS WITH POSTDOCTORAL ASSOCIATES AS PI

Agency	Period	Role	Type	Title	Amount
NSF AST	2011-14	Co-PI	Research	Triangulating on the Ages of Stars: Using Open Clusters to Calibrate Stellar Chronometers from Myr to Gyr Ages (P. Cargile, PI)	\$372K
NSF AST	2010-13	Co-PI	Research	Bringing eclipsing binary stars to the next level of benchmark precision (L. Hebb, PI)	\$351K
NASA Fermi	2010-12	Co-PI	Outreach	Bringing the Excitement of Astronomy to Underserved Audiences (E. Grundstrom, PI)	\$36K
Vanderbilt University	2007-10	Co-PI	Outreach	Connecting Astronomy Research and Learning Sciences Research (E. Grundstrom, PI)	\$120K
NASA Spitzer	2005-07	Co-PI	Research	The Angular Momentum Evolution of Young, Low-Mass Stars (D. James, PI)	\$67K
NASA Space Grant	2005-06	Co-PI	Outreach	The Fisk-Vanderbilt NASA Roadshow: Outreach to Underserved Communities with a Traveling Planetarium (D. James, PI)	\$20K

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

1. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
2. ** Palomar Observatory Science Meeting, Caltech, Invited Plenary, Nov 2012

3. ** International Conference on the 50th Anniversary of Brown Dwarf Stars, Invited Plenary, Oct 2012
4. Georgia State University, Physics & Astronomy Colloquium, Oct 2012
5. ** Keck Observatory Science Meeting, UC San Diego, Invited Plenary, Oct 2012
6. ** International Conference on Cool Stars and the Sun, Invited Plenary, June 2012
7. University of Texas at Austin, Physics Colloquium, Feb 2012
8. University of Maryland College Park, Physics Colloquium, Jan 2012
9. Harvard University, Invited Seminar, Center for the Search for Extrasolar Earths, Jan 2012
10. Yale University, Astronomy Colloquium, 2011
11. Dartmouth College, Physics Colloquium, 2011
12. Massachusetts Institute of Technology, Astrophysics Colloquium, 2011
13. Yale University, Physics Colloquium, 2011
14. University of Florida, Astronomy Colloquium, 2011
15. ** International Symposium on the Origin of Stellar Masses, Exeter University, 2010
16. University of California at San Diego, Astronomy Colloquium, 2010
17. University of California at Berkeley, Astronomy Colloquium, 2010
18. ** 16th Cambridge Symposium on Cool Stars and the Sun, University of Washington, 2010
19. ** Gordon Research Conference, Mt. Holyoke College, 2010
20. University of Denver, Marsico Distinguished Lecture, 2010
21. Carnegie Institution of Washington, Astronomy Colloquium, 2010
22. ** IAU Symposium on the Ages of Stars, 2009
23. Space Telescope Science Institute, Colloquium, 2009
24. University of Chicago, Astronomy Colloquium, 2009
25. University of Iowa, Astronomy Colloquium, 2008
26. ** 14th Cambridge Workshop on Cool Stars and the Sun, University of St. Andrews, 2008
27. Space Telescope Science Institute, Caroline Herschel Distinguished Lecture, 2008
28. ** International Gemini Observatory Key Science Symposium, 2007
29. University of Michigan, Astronomy Colloquium, 2007
30. Boston University, Astronomy Colloquium, 2007
31. Villanova University, Astronomy Colloquium, 2007
32. ** From Stars to Planets Symposium, University of Florida, 2007
33. University of Maryland, Astronomy Colloquium, 2007
34. Yale University, Astronomy Colloquium, 2006
35. Columbia University, Astronomy Colloquium, 2006
36. University of Virginia, Astronomy Colloquium, 2006
37. University of Arizona, Astronomy Colloquium, 2006
38. ** Protostars & Planets V Conference, University of Hawaii, 2005
39. American Astronomical Society Special Session, San Diego, 2005
40. University of Texas at Austin, Astronomy Colloquium, 2004
41. ** Large Synoptic Survey Telescope Science Workshop, Seattle, 2004
42. ** Gemini Observatory International Symposium, Vancouver, 2004
43. SUNY Stony Brook, Astronomy Colloquium, 2004
44. American Astronomical Society Special Session, Nashville, 2003
45. University of Washington, Astronomy Colloquium, 2003
46. Carnegie Institution of Washington, Astronomy Colloquium, 2003
47. University of Minnesota, Astronomy Colloquium, 2003
48. San Francisco State University, Astronomy Colloquium, 2003
49. American Astronomical Society Special Session, Albuquerque, 2002
50. McDonald Observatory, Astronomy Colloquium, 2002
51. Laboratoire d'Astrophysique Grenoble, Astronomy Colloquium, 2002

52. ** IAU Symposium on the Formation of Binary Stars, Potsdam, Germany, 2001
53. ** IAU Symposium on the Origin and Evolution of Young Stellar Clusters, 2001
54. Ohio State University, Astronomy Colloquium, 2001
55. ** IAU Symposium on Stellar Clusters and Associations, 2000
56. University of California at Berkeley, Astronomy Colloquium, 2000
57. Utrecht University, The Netherlands, Astronomy Colloquium, 2000
58. ** European Southern Observatory International Symposium, Palermo, Italy, 1999

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

1. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
2. ** Ford Foundation Fellows Conference, National Academies of Science, Invited Plenary, Sept 2012
3. MIT, Committee on Race and Diversity, 2011
4. Yale University, Physics Department, 2011
5. American Physical Society Meeting, 2011
6. NSF MPS Distinguished Lecture, 2011
7. NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, 2011
8. ** University of Michigan Symposium on Diversity in STEM, 2010
9. American Physical Society Meeting, 2010
10. Harvard University, Center for Astrophysics, 2009
11. Women and Minorities in Astronomy Meeting, 2009
12. ** The Future of Diversity and Opportunity in Higher Education Conference, Rutgers University, 2008
13. University of Iowa, Astronomy Department, 2008
14. Boston University, Astronomy Department, 2008
15. ** Ford Foundation Fellows Annual Conference, 2008
16. American Physical Society Meeting, 2008
17. Yale University, Astronomy Department, 2007
18. ** University of Michigan ADVANCE Symposium, 2007
19. American Physical Society Gender and Diversity Conference, 2007
20. Columbia University, Astronomy Department, 2006
21. University of Texas at Austin, Astronomy Department, 2004
22. NSF IGERT PI Meeting, 2004
23. ** Women in Astronomy II Meeting, 2003
24. ** American Association of Physics Teachers Meeting, 2003
25. University of Washington, Astronomy Department, 2003
26. University of Minnesota, Astronomy Department, 2003
27. American Astronomical Society Special Session, 2003
28. Ohio State University, Astronomy Department, 2001
29. American Astronomical Society Special Session, Atlanta, 2000

PUBLICATIONS—PEER REVIEWED JOURNALS—IN PRINT OR IN PRESS

Citation count as of 10 May 2013: 2943. (*h index* = 26)

1. Bastien, F., **Stassun**, K.G., Basri, G., Pepper, J.A. 2013, "A Fundamental "Photometric Flicker" Sequence Tracing the Evolution of Sun-like Stars", *Nature*, in press
2. Foster, D. L., Charles, P. A., Swartz, D. A., Misra, R., & **Stassun**, K. G. 2013, "Monitoring the very-long-term variability of X-ray sources in the giant elliptical galaxy M87", *Monthly Notices of the Royal Astronomical Society*, in press
3. Gomez Maqueo Chew, Y., et al. 2013, "The Homogeneous Study of Transiting Systems (HoSTS). I. The Pilot Study of WASP-13", *Astrophysical Journal*, 768, 79

4. Mack, C.E., Ge, J., Deshpande, R., Wisniewski, J.P., **Stassun**, K.G., et al. 2013, "A Cautionary Tale: MARVELS Brown Dwarf Candidate Reveals Itself to be a Very Long Period, Highly Eccentric Spectroscopic Stellar Binary", *Astronomical Journal*, 145, 139
5. Aarnio, A. N., Matt, S. P., & **Stassun**, K. G. 2013, "Angular momentum evolution of low-mass pre-main sequence stars via extreme coronal mass ejections", *Astronomische Nachrichten*, 334, 77
6. Dhital, S., West, A. A., **Stassun**, K. G., & Law, N. M. 2013, "The SLoWPoKES catalog of low-mass ultra-wide binaries: A cool stars resource for testing fundamental properties and for constraining binary formation theory", *Astronomische Nachrichten*, 334, 14
7. Triaud, A., et al., 2013, "The EBLM project. I. Physical and orbital parameters, including spin-orbit angles, of two low-mass eclipsing binaries on opposite sides of the brown dwarf limit", *Astronomy and Astrophysics*, 549, 18
8. **Stassun**, K. G. 2012, "Astrophysics: A pas de trois birth for wide binary stars", *Nature*, 492, 191
9. **Stassun**, K.G., Kratter, K.M., Scholz, A., Dupuy, T.J. 2012, *Astrophysical Journal*, "An Empirical Correction for Activity Effects on the Temperatures, Radii, and Estimated Masses of Low-Mass Stars and Brown Dwarfs", 756, 47
10. Mohanty, S., **Stassun**, K.G. 2012, *Astrophysical Journal*, High-Resolution Spectroscopy during Eclipse of the Young Substellar Eclipsing Binary 2MASS 0535-0546. II. Secondary Spectrum: No Evidence that Spots Cause the Temperature Reversal", 758, 12
11. Richardson, M., Hill, F., & **Stassun**, K. G. 2012, "No Evidence Supporting Flare-Driven High-Frequency Global Oscillations", *Solar Physics*, Vol. 281, pp. 21-35
12. Aarnio, A. N., Matt, S. P., & **Stassun**, K. G. 2012, "Mass Loss in Pre-main-sequence Stars via Coronal Mass Ejections and Implications for Angular Momentum Loss", *Astrophysical Journal*, 760, 9
13. Beatty, T.G., et al. 2012, "KELT-2Ab: A Hot Jupiter Transiting the Bright ($V = 8.77$) Primary Star of a Binary System", *Astrophysical Journal*, 756, 39
14. Siverd, R.J., et al. 2012, "KELT-1b: A Strongly Irradiated, Highly Inflated, Short Period, 27 Jupiter-mass Companion Transiting a Mid-F Star", *Astrophysical Journal*, 761, 123
15. J. Pepper, R. Kuhn, R. Siverd, D. James, K.G. **Stassun**, 2012, *Publications of the Astronomical Society of the Pacific*, "The KELT-South Telescope", 124, 230
16. Da Rio, N., Robberto, M., Hillenbrand, L. A., Henning, T., & **Stassun**, K. G. 2012, "The Initial Mass Function of the Orion Nebula Cluster across the H-burning Limit", *Astrophysical Journal*, 748, 14
17. Morales-Calderon, M., Stauffer, J.R., **Stassun**, K.G., et al. 2012, "YSOVAR: Six Pre-main-sequence Eclipsing Binaries in the Orion Nebula Cluster", *Astrophysical Journal*, 753, 149
18. Scandariato, G., Da Rio, N., Robberto, M., Pagano, I., & **Stassun**, K.G. 2012, "Empirical near-infrared colors for low-mass stars and brown dwarfs in the Orion Nebula Cluster. An empirical near-infrared isochrone at 1 Myr", *Astronomy and Astrophysics*, 545, A19
19. Manara, C. F., Robberto, M., Da Rio, N., Lodato, G., Hillenbrand, L. A., **Stassun**, K. G., & Soderblom, D. R. 2012, "Hubble Space Telescope Measures of Mass Accretion Rates in the Orion Nebula Cluster", *Astrophysical Journal*, 755, 154
20. Miller, A. A., Richards, J. W., Bloom, J. S., Cenko, S. B., Silverman, J. M., Starr, D. L., & **Stassun**, K. G. 2012, "Discovery of Bright Galactic R Coronae Borealis and DY Persei Variables: Rare Gems Mined from ACVS", *Astrophysical Journal*, 755, 98
21. Fleming, S.W., et al. 2012, "Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. II. A Short-period Companion Orbiting an F Star with Evidence of a Stellar Tertiary and Significant Mutual Inclination", *Astronomical Journal*, 144, 72
22. Wisniewski, J.P., et al. 2012, "Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. I. A Low-mass Ratio Stellar Companion to TYC 4110-01037-1 in a 79 Day Orbit", *Astronomical Journal*, 143, 107
23. P. Muirhead, J. Johnson, K. Apps, J. Carter, T. Morton, D. Fabrycky, J. Pineda, M. Bottom, B. Rojas-Ayala, E. Schlawin, K. Hamren, K. Covey, J. Crepp, K.G. **Stassun**, J. Pepper, L. Hebb, E. Kirby, A. Howard,

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PUBLICATIONS—OTHER CONTRIBUTIONS

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COURSES TAUGHT (** INDICATES NEW COURSE DEVELOPED)

1. **Astronomy 102: 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 205: 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 222/322: Observational Astronomy Laboratory** [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 300: 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 307: 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 302: 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. **** 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?