

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 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 fellowship program, instructor for graduate course in science education research*

Mentor: Terrence Millar

HONORS AND AWARDS

American Physical Society Nicholson Medal for Human Outreach—2013

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

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 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, Sloan Digital Sky Survey IV Executive Committee—2013-present
 Elected Member, Executive Committee, American Physical Society—2013-present
 Elected Member, ad hoc Committee on APS Corporate Reform, American Physical Society—2013-present
 Steering Committee Member, Chancellor's Task Force on Educational Technologies, Vanderbilt—2013
 Advisory Council Member, Vanderbilt Institute for Digital Learning—2013-present
 Co-Investigator, NASA Transiting Exoplanet Survey Satellite (TESS)—2012-present
 Invited Member, Scientific Organizing Committee, KU Leuven Conference on Setting a New Standard in 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, 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
 Member, NSF Committee on Equal Opportunity in Science and Engineering (CEOSE)—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, US 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 Survey Telescope, Astrominformatics Science Working Group—2010-present
 Institutional Representative, 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), NASA (Spitzer, HST, Origins of Solar Systems), Keck Observatory
 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)
6. Nathan De Lee (currently assistant professor at University of Northern Kentucky)

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)
7. Deatrick Foster, PhD 2013 (currently postdoc at CEA-Saclay)
8. Fabienne Bastien, PhD 2014 (offered NASA Hubble Postdoc Fellowship at Penn State)
9. Trey Mack, PhD expected 2014 (postdoctoral applications pending)

Postdoctoral associates supervised:

1. Rodolfo Montez (Vanderbilt University)—2012-present
2. Saurav Dhital (Boston University)—2012-13
3. Nathan De Lee (Vanderbilt University)—2011-13
4. Phillip Cargile (Vanderbilt University)—2010-14
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. Brenden Wiggins (Vanderbilt University)—2013-present
5. David Caudel (Vanderbilt University)—2012-present
6. Kyle Conroy (Vanderbilt University)—2012-present
7. Victor Garcia (Vanderbilt University)—2012-present

8. Michael Lund (Vanderbilt University)—2012-present
9. Fabienne Bastien (Vanderbilt University, NASA Graduate Research Fellow)—2010-14
10. Trey Mack (Vanderbilt University)—2009-14
11. Julia Bodnarik (Vanderbilt University, NASA Co-op Fellow)—2007-13
12. Deatrick Foster (Vanderbilt University, NASA Graduate Research Fellow)—2007-13
13. Thompson LeBlanc (Vanderbilt University, NASA Graduate Research Fellow)—2006-13
14. Saurav Dhital (Vanderbilt University)—2006-12
15. Phillip Cargile (Vanderbilt University)—2005-10
16. Alicia Aarnio (Vanderbilt University)—2005-10
17. 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)—2012-14
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)—2013-14
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. Rachel Gibbs (Vanderbilt University)—2013
2. Mahmoud Parvizi (Austin Peay State University)—2013
3. Sam Swihart (University of Michigan)—2013
4. Enmanuel Sanchez (Florida International University)—2013
5. Marialis Rosario (University of Puerto Rico)—2012-13
6. Sal Tajerina (University of Puerto Rico)—2012
7. Gabriel Jaffe (UT Austin)—2012
8. Allyn Durbin (Villanova University)—2011
9. Charee Peters (University of Denver, now PhD student at UW Madison)—2010
10. Alex Richert (University of Hawaii, now PhD student at Penn State University)—2010
11. Roxanna Shohadaee (University of Tennessee)—2010
12. Mark Bryant (Southern University)—2009
13. Heather Cegla (Minnesota State University, now PhD student at Queens University Belfast)—2009
14. Eugenio Garcia (Johns Hopkins University, now PhD student at Vanderbilt)—2009
15. Francilia Samuel (Depauw University)—2008
16. Nathalia Alzate (Florida Tech, now MA student at Northern Arizona University)—2007
17. India Anderson (Southern University, now PhD student at Louisiana State University)—2007
18. Ximena Fernandez (Vassar College, now PhD student at Columbia University)—2007
19. Brittany Kamai (University of Hawaii, now PhD student at Vanderbilt)—2007
20. Trey Mack (University of North Carolina, now PhD student at Vanderbilt)—2006

GRANTS AS PI OR CO-PI

Agency	Period	Role	Type	Title	Amount
NSF AST	2014-19	PI	Research / Training	Graduate Opportunities at Fisk in Astronomy and Astrophysics Research (GO-FAAR)	\$2.2M
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 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
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 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. University of Western Ontario, Astronomy Colloquium, Feb 2014
2. Ohio State University, Astronomy Colloquium, Feb 2014
3. University of Wisconsin—Madison, Astronomy Colloquium, Dec 2013
4. Penn State University, Astronomy Colloquium, Oct 2013
5. ** Space Telescope Science Institute, Orion Nebula Conference Plenary Talk, Oct 2013
6. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
7. ** Palomar Observatory Science Meeting, Caltech, Invited Plenary, Nov 2012
8. ** International Conference on the 50th Anniversary of Brown Dwarf Stars, Invited Plenary, Oct 2012
9. Georgia State University, Physics & Astronomy Colloquium, Oct 2012
10. ** Keck Observatory Science Meeting, UC San Diego, Invited Plenary, Oct 2012
11. ** International Conference on Cool Stars and the Sun, Invited Plenary, June 2012
12. University of Texas at Austin, Physics Colloquium, Feb 2012
13. University of Maryland College Park, Physics Colloquium, Jan 2012
14. Harvard University, Invited Seminar, Center for the Search for Extrasolar Earths, Jan 2012
15. Yale University, Astronomy Colloquium, 2011
16. Dartmouth College, Physics Colloquium, 2011
17. Massachusetts Institute of Technology, Astrophysics Colloquium, 2011
18. Yale University, Physics Colloquium, 2011
19. University of Florida, Astronomy Colloquium, 2011
20. ** International Symposium on the Origin of Stellar Masses, Exeter University, 2010
21. University of California at San Diego, Astronomy Colloquium, 2010
22. University of California at Berkeley, Astronomy Colloquium, 2010
23. ** 16th Cambridge Symposium on Cool Stars and the Sun, University of Washington, 2010
24. ** Gordon Research Conference, Mt. Holyoke College, 2010
25. University of Denver, Marsico Distinguished Lecture, 2010
26. Carnegie Institution of Washington, Astronomy Colloquium, 2010
27. ** IAU Symposium on the Ages of Stars, 2009
28. Space Telescope Science Institute, Colloquium, 2009
29. University of Chicago, Astronomy Colloquium, 2009
30. University of Iowa, Astronomy Colloquium, 2008
31. ** 14th Cambridge Workshop on Cool Stars and the Sun, University of St. Andrews, 2008
32. Space Telescope Science Institute, Caroline Herschel Distinguished Lecture, 2008
33. ** International Gemini Observatory Key Science Symposium, 2007
34. University of Michigan, Astronomy Colloquium, 2007
35. Boston University, Astronomy Colloquium, 2007
36. Villanova University, Astronomy Colloquium, 2007

37. ** From Stars to Planets Symposium, University of Florida, 2007
38. University of Maryland, Astronomy Colloquium, 2007
39. Yale University, Astronomy Colloquium, 2006
40. Columbia University, Astronomy Colloquium, 2006
41. University of Virginia, Astronomy Colloquium, 2006
42. University of Arizona, Astronomy Colloquium, 2006
43. ** Protostars & Planets V Conference, University of Hawaii, 2005
44. American Astronomical Society Special Session, San Diego, 2005
45. University of Texas at Austin, Astronomy Colloquium, 2004
46. ** Large Synoptic Survey Telescope Science Workshop, Seattle, 2004
47. ** Gemini Observatory International Symposium, Vancouver, 2004
48. SUNY Stony Brook, Astronomy Colloquium, 2004
49. American Astronomical Society Special Session, Nashville, 2003
50. University of Washington, Astronomy Colloquium, 2003
51. Carnegie Institution of Washington, Astronomy Colloquium, 2003
52. University of Minnesota, Astronomy Colloquium, 2003
53. San Francisco State University, Astronomy Colloquium, 2003
54. American Astronomical Society Special Session, Albuquerque, 2002
55. McDonald Observatory, Astronomy Colloquium, 2002
56. Laboratoire d'Astrophysique Grenoble, Astronomy Colloquium, 2002
57. ** IAU Symposium on the Formation of Binary Stars, Potsdam, Germany, 2001
58. ** IAU Symposium on the Origin and Evolution of Young Stellar Clusters, 2001
59. Ohio State University, Astronomy Colloquium, 2001
60. ** IAU Symposium on Stellar Clusters and Associations, 2000
61. University of California at Berkeley, Astronomy Colloquium, 2000
62. Utrecht University, The Netherlands, Astronomy Colloquium, 2000
63. ** European Southern Observatory International Symposium, Palermo, Italy, 1999

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

1. Ohio State University, Graduate Division, Invited Talk, Feb 2014
2. UC Irvine DECADE Series, Invited Talk, Jan 2014
3. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2014
4. Penn State University, Diversity Seminar, Oct 2013
5. ** American Institutes for Research, Plenary Talk, Sept 2013
6. American Museum of Natural History, Invited Colloquium, Sept 2013
7. UC Irvine, Astronomy, Invited Colloquium, July 2013
8. American Astronomical Society Meeting, Invited Special Session Talk, Jan 2013
9. ** Ford Foundation Fellows Conference, National Academies of Science, Invited Plenary, Sept 2012
10. MIT, Committee on Race and Diversity, 2011
11. Yale University, Physics Department, 2011
12. American Physical Society Meeting, 2011
13. NSF MPS Distinguished Lecture, 2011
14. NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium, 2011
15. ** University of Michigan Symposium on Diversity in STEM, 2010
16. American Physical Society Meeting, 2010
17. Harvard University, Center for Astrophysics, 2009
18. Women and Minorities in Astronomy Meeting, 2009
19. ** The Future of Diversity and Opportunity in Higher Education Conference, Rutgers University, 2008
20. University of Iowa, Astronomy Department, 2008
21. Boston University, Astronomy Department, 2008

22. ** Ford Foundation Fellows Annual Conference, 2008
23. American Physical Society Meeting, 2008
24. Yale University, Astronomy Department, 2007
25. ** University of Michigan ADVANCE Symposium, 2007
26. American Physical Society Gender and Diversity Conference, 2007
27. Columbia University, Astronomy Department, 2006
28. University of Texas at Austin, Astronomy Department, 2004
29. NSF IGERT PI Meeting, 2004
30. ** Women in Astronomy II Meeting, 2003
31. ** American Association of Physics Teachers Meeting, 2003
32. University of Washington, Astronomy Department, 2003
33. University of Minnesota, Astronomy Department, 2003
34. American Astronomical Society Special Session, 2003
35. Ohio State University, Astronomy Department, 2001
36. 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))

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1. Bastien, F., **Stassun**, K.G., Pepper, J., Wright, J.T., Aigrain, S., Basri, G., Johnson, J.A., Howard, A.W., Walkowicz, L.M. 2014, “Radial Velocity Variations of Photometrically Quiet, Chromospherically Inactive Kepler Stars: A Link Between RV Jitter and Photometric Flicker”, *Astronomical Journal*, 147, 29
2. Cranmer, S.R., Bastien, F.A., **Stassun**, K.G., Saar, S.H. 2014, “Stellar Granulation as the Source of High-Frequency Flicker in Kepler Light Curves”, *Astrophysical Journal*, 781, 124
3. H. M. Cegla, K. G. **Stassun**, C. A. Watson, F. A. Bastien, J. Pepper, 2014, “Estimating Stellar Radial Velocity Variability from Kepler and GALEX: Implications for the Radial Velocity Confirmation of Exoplanets”, *Astrophysical Journal*, 780, 104
4. Cargile, P.A.; James, D.J.; Pepper, J.; Kuhn, R.B.; Siverd, R.; **Stassun**, K.G. 2014, “Evaluating Gyrochronology on the Zero-Age-Main-Sequence: Rotation Periods in the Southern Open Cluster Blanco 1 from the KELT-South Survey”, *Astrophysical Journal*, 782, 29
5. Conroy, K.E., Prsa, A., **Stassun**, K.G., Orosz, J.A., Fabrycky, D.A., Welsh, W.F. 2014, “Kepler Eclipsing Binary Stars. IV. Precise Eclipse Times for Close Binaries and Identification of Candidate Three-Body Systems”, *Astronomical Journal*, 147, 45
6. Bouvier, J., Matt, S., Mohanty, S., Scholz, A., **Stassun**, K.G., Zanni, C. 2013, “Angular momentum evolution of young low-mass stars and brown dwarfs: observations and theory”, *Protostars & Planets VI*, in press
7. Bastien, F., **Stassun**, K.G., Basri, G., Pepper, J. 2013, “An observational correlation between stellar brightness variations and surface gravity”, *Nature*, 500, 427
8. Gomez Maqueo Chew, Y., et al. 2013, “Discovery of WASP-65b and WASP-75b: Two Hot Jupiters Without Highly Inflated Radii”, *Astronomy & Astrophysics*, 559, 36
9. Desphande, R., et al. 2013, “The SDSS-III APOGEE Radial Velocity Survey of M Dwarfs. I. Description of the Survey and Science Goals”, *Astronomical Journal*, 146, 156
10. Burger, D., **Stassun**, K.G., Pepper, J., Siverd, R.J., Paegert, M., De Lee, N.M., Robinson, W. 2013, “Filtergraph: An Interactive Web Application for Visualization of Astronomy Datasets”, *Astronomy & Computing*, 2, 40
11. J.E. Rodriguez, J. Pepper, K.G. **Stassun**, R.J. Siverd, P. Cargile, T.G. Beatty, B.S. Gaudi. 2013, “Occultation of the T Tauri Star RW Aurigae A by its Tidally Disrupted Disk”, *Astronomical Journal*, 146, 112

12. Garcia, E.V., **Stassun**, K.G., Torres, G. 2013, "Reanalysis of the Radii of the Benchmark Eclipsing Binary V578 Mon", *Astrophysical Journal*, 769, 114
13. Pepper, J.A., Siverd, R.J., Beatty, T.G., Gaudi, B.S., **Stassun**, K.G., et al. 2013, "KELT-3b: A Hot Jupiter Transiting a V=9.8 Late-F Star", *Astrophysical Journal*, 773, 64
14. Peng, J., et al. 2013, "Very Low Mass Stellar and Substellar Companions to Solar-like Stars From MARVELS IV: A Candidate Brown Dwarf or Low-Mass Stellar Companion to HIP 67526", *Astronomical Journal*, 146, 65
15. 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", *Astron. Nach.*, 334, 77
16. 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", *Astron. Nach.*, 334, 14
17. Peters, C., Lopez, L., Ramirez-Ruiz, E., **Stassun**, K.G., Figueroa-Feliciano, E. 2013, "Constraining Explosion Type of Young Supernova Remnants Using 24 Micron Emission Morphology", *Astrophysical Journal*, 771, 38
18. Wright, J., et al. 2013, "MARVELS-1: A face-on double-lined binary star masquerading as a resonant planetary system; and consideration of rare false positives in radial velocity planet searches", *Astrophysical Journal*, 770, 119
19. Mack, C.E., Ge, J., Deshpande, R., Wisniewski, J., **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
20. De Lee, N., et al. 2013, "Very Low Mass Stellar and Substellar Companions to Solar-Like Stars From MARVELS V: A Low Eccentricity Brown Dwarf from the Driest Part of the Desert, MARVELS-6b", *Astrophysical Journal*, 145, 155
21. Robberto, M., et al. 2013, "The Hubble Space Telescope Treasury Program on the Orion Nebula Cluster", *Astrophysical Journal Supplements*, 207, 10
22. 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*, 432, 1375
23. 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
24. 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
25. 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
26. 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
27. **Stassun**, K. G. 2012, "Astrophysics: A pas de trois birth for wide binary stars", *Nature*, 492, 191
28. **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
29. 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
30. Richardson, M., Hill, F., & **Stassun**, K. G. 2012, "No Evidence Supporting Flare-Driven High-Frequency Global Oscillations", *Solar Physics*, Vol. 281, pp. 21-35
31. 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

32. 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
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
39. 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
40. 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
41. 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
42. 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, H. Isaacson, G. Marcy, D. Levitan, T. Diaz-Santos, L. Armus, J. Lloyd, 2012, *Astrophysical Journal*, "Characterizing the Cool KOIs III. KOI-961: A Small Star with Large Proper Motion and Three Small Planets", 747, 144
43. Henderson, C., **Stassun**, K.G. 2012, *Astrophysical Journal*, "Time-Series Photometry of Stars in and around the Lagoon Nebula. I. Rotation Periods of 290 Low-Mass Pre-Main-Sequence Stars in NGC 6530", 747, 51
44. S. Dhital, A.A. West, K.G. **Stassun**, J.J. Bochanski, A.P. Massey, F.A. Bastien, 2012, *Astronomical Journal*, "Refined Metallicity Indices for M Dwarfs Using the SLoWPoKES Catalog of Wide, Low-mass Binaries", 143, 67
45. Gomez Maqueo Chew, Y., **Stassun**, K.G., Prsa, A., Stempels, E., Hebb, L., Barnes, R., Heller, R., Mathieu, R.D. 2012, *Astrophysical Journal*, "Luminosity Discrepancy in the Equal-Mass, Pre-Main-Sequence Eclipsing Binary Par 1802: Non-Coevality or Tidal Heating?", 745, 58
46. N. Da Rio, M. Robberto, L. Hillenbrand, T. Henning, K.G. **Stassun**, 2012, *Astrophysical Journal*, "The Initial Mass Function of the Orion Nebula Cluster across the H-burning limit", 748, 14
47. Bastien, F., **Stassun**, K.G., Weintraub, D. 2011, *Astronomical Journal*, "High Cadence Time-Series Photometry of V1647 Orionis", Vol. 142, p. 141
48. LeBlanc, T., Covey, K., **Stassun**, K.G. 2011, *Astronomical Journal*, "Spectral Energy Distributions of Young Stars in IC 348: The Role of Disks in Angular Momentum Evolution of Young, Low-Mass Stars", Vol. 142, p. 55
49. Prsa, A., Pepper, J., **Stassun**, K.G. 2011, *Astronomical Journal*, "Expected Large Synoptic Survey Telescope (LSST) Yield of Eclipsing Binary Stars", Vol. 142, p. 52
50. Fleming, S., Maxted, P., Hebb, L., **Stassun**, K.G., Ge, J., Cargile, P., Ghezzi, L., De Lee, N., Wisniewski, J., Gary, B., Porto de Mello, G., Ferreira, L., Zhao, B., Anderson, D., Wan, X., Hellier, C., Guo, P., West,

- R., Mahadevan, S., Pollacco, D., Lee, B., Collier Cameron, A., van Eyken, J., Skillen, I., Crepp, J., Nguyen, D., Kane, S., Paegert, M., da Costa, L., Maia, M., Santiago, B. 2011, *Astronomical Journal*, “Eclipsing Binary Science Via the Merging of Transit and Doppler Exoplanet Survey Data -- A Case Study With the MARVELS Pilot Project and SuperWASP”, Vol. 142, p. 50
51. Garcia, E.V., **Stassun**, K.G., Hebb, L., Gomez Maqueo Chew, Y., Heiser, A. 2011, *Astronomical Journal*, Apsidal Motion of the Massive, Benchmark Eclipsing Binary V578 Mon, Vol. 142, p. 27
 52. Hebb, L., Cegla, H., **Stassun**, K.G., Stempels, E., Cargile, P., & Palladino, L. 2011, *Astronomy & Astrophysics*, “Precise Orbit Solution and Mass Measurements of MML 53, a Low-Mass, Pre--Main-Sequence Eclipsing Binary in the Lupus Cloud”, Vol. 531, p. 61
 53. Meibom, S., Mathieu, R.D., **Stassun**, K.G., Liebesny, P., Saar, S.H. 2011, *Astrophysical Journal*, “The Color-Period Diagram and Stellar Rotational Evolution: New Rotation Period Measurements in the Open Cluster M34”, Vol. 733, p. 115
 54. M. Povich, N. Smith, S. Majewski, K. Getman, L. Townsley, B. Babler, P. Broos, R. Indebetouw, M. Meade, T. Robitaille, K.G. **Stassun**, B. Whitney, Y. Yonekura, Y. Fukui 2011, *Astrophysical Journal*, “A Pan-Carina YSO Catalog: Intermediate-Mass Young Stellar Objects in the Carina Nebula Identified Via Mid-Infrared Excess Emission”, Vol. 194, p. 14
 55. Wolk, S., Broos, P., Getman, K., Feigelson, E., Preibisch, T., Townsley, L., Wang, J., **Stassun**, K.G., King, R., McCaughrean, M., Moffat, A., Zinnecker, H., 2011, *Astrophysical Journal*, “The Chandra Carina Complex Project View of Trumpler 16”, Vol. 194, p. 12
 56. Feigelson, E., Getman, K., Townsley, L., Broos, P., Povich, M., Garmire, G., King, R., Montmerle, T., Preibisch, T., Smith, N., **Stassun**, K.G., Wang, J., Wolk, S., Zinnecker, H. 2011, *Astrophysical Journal*, “X-ray Star Clusters in the Carina Complex”, Vol. 194, p. 9
 57. Wang, J., Feigelson, E., Townsley, L., Broos, P., Getman, K., Wolk, S., Preibisch, T., **Stassun**, K.G., Moffat, A., Garmire, G., King, R., McCaughrean, M., Zinnecker, H. 2011, *Astrophysical Journal*, “A Chandra ACIS Study of the Young Star Cluster Trumpler 15 in Carina and Correlation with Near-infrared Sources”, Vol. 194, p. 11
 58. Townsley, L., et al. 2011, *Astrophysical Journal*, “An Introduction to the Chandra Carina Complex Project”, Vol. 194, p. 1
 59. Lee, B., **Stassun**, K.G., and the SDSS-III MARVELS Team. 2011, “Discovery of a Substellar Mass Companion to TYC 1240: Evidence for a Brown Dwarf Residing in the ‘Brown Dwarf Desert’”, *Astrophysical Journal*, Vol. 728, p. 32
 60. **Stassun**, K.G., Sturm, S., Holley-Bockelmann, K., Burger, A., Ernst, D., Webb, D. 2011, “The Fisk-Vanderbilt Masters-to-PhD Bridge Program: Broadening Participating of Underrepresented Minorities in the Physical Sciences. Recognizing, enlisting, and cultivating 'unrealized or unrecognized potential' in students”, *American Journal of Physics*, Vol. 79, p. 374
 61. Aarnio, A.N., **Stassun**, K.G., & Hughes, J. 2010, “A Calibration of the Relationship Between Solar X-ray Flares and Coronal Mass Ejections”, *Solar Physics*, Vol. 268, p. 195
 62. Dhital, S., Burgasser, A., Looper, D., **Stassun**, K.G. 2010, “Resolved Spectroscopy of M Dwarf/L Dwarf Binaries. IV. Discovery of an M9 + L6 Binary Separated by Over 100 AU”, *Astronomical Journal*, Vol. 141, p. 7
 63. Mohanty, S., **Stassun**, K. G., & Doppmann, G. W. 2010, “High Resolution Spectroscopy during Eclipse of the Young Substellar Eclipsing Binary 2MASS 0535-0546. I. Primary Spectrum: Cool Spots versus Opacity Uncertainties”, *Astrophysical Journal*, Vol. 722, p. 1138
 64. Da Rio, N., Robberto, M., Soderblom, D. R., Panagia, N., Hillenbrand, L. A., Palla, F., & **Stassun**, K. G. 2010, “A Multi-color Optical Survey of the Orion Nebula Cluster. II. the H-R diagram”, *Astronomical Journal*, Vol. 722, p. 1092
 65. Exter, K., Bond, H., **Stassun**, K.G., Smally, B., Maxted, P., Pollacco, D. 2010, “The Exotic Eclipsing Nucleus of the Ring Planetary Nebula SuWt 2”, *Astrophysical Journal*, Vol. 140, p. 1414
 66. Hebb, L., Pollacco, D., Stempels, E., **Stassun**, K.G. 2010, “MML 53: a new low-mass, pre-main sequence eclipsing binary in the Lupus Cloud discovered by SuperWASP”, *Astronomy & Astrophysics*,

- Vol. 522, p. 37
67. Law, N., Dhital, S., Kraus, A., **Stassun**, K.G., & West, A.A. 2010, "The High-Order-Multiplicity of Unusually Wide M-dwarf Binaries: Eleven New Triple and Quadruple Systems", *The Astrophysical Journal*, Vol. 720, pp. 1727-1737
 68. **Stassun**, K.G., Burger, A., & Lange, S.E. 2010, "The Fisk-Vanderbilt Masters-to-PhD Bridge Program: A Model for Broadening Participation of Underrepresented Groups in Physical Sciences through Effective Partnerships with Minority-Serving Institutions", *Journal of Geosciences Education*, Vol. 58, p. 3
 69. Smith, N., Povich, M. S., Whitney, B. A., Churchwell, E., Babler, B. L., Meade, M. R., Bally, J., Gehrz, R. D., Robitaille, T. P., & **Stassun**, K. G. 2010, "Spitzer Space Telescope observations of the Carina nebula: the steady march of feedback-driven star formation", *Monthly Notices of the Royal Astronomical Society*, Vol. 406, pp. 952-974
 70. Fleming, S. W., Ge, J., Mahadevan, S., Lee, B., Eastman, J. D., Siverd, R. J., Gaudi, B. S., Niedzielski, A., Sivarani, T., **Stassun**, K. G., Wolszczan, A., Barnes, R., Gary, B., Cuong Nguyen, D., Morehead, R. C., Wan, X., Zhao, B., Liu, J., Guo, P., Kane, S. R., van Eyken, J. C., De Lee, N. M., Crepp, J. R., Shelden, A. C., Laws, C., Wisniewski, J. P., Schneider, D. P., Pepper, J., Snedden, S. A., Pan, K., Bizyaev, D., Brewington, H., Malanushenko, O., Malanushenko, V., Oravetz, D., Simmons, A., & Watters, S. 2010, "Discovery of a Low-mass Companion to a Metal-rich F Star with the MARVELS Pilot Project", *The Astrophysical Journal*, Vol. 718, pp. 1186-1199
 71. Aarnio, A. N., **Stassun**, K. G., & Matt, S. P. 2010, "A Search for Star-Disk Interaction among the Strongest X-ray Flaring Stars in the Orion Nebula Cluster", *The Astrophysical Journal*, Vol. 717, pp. 93-106
 72. Dhital, S., West, A. A., **Stassun**, K. G., & Bochanski, J. J. 2010, "Sloan Low-mass Wide Pairs of Kinetically Equivalent Stars (SLOWPoKES): A Catalog of Very Wide, Low-mass Pairs", *The Astronomical Journal*, Vol. 139, pp. 2566-2586
 73. Da Rio, N., Robberto, M., Soderblom, D. R., Panagia, N., Hillenbrand, L. A., Palla, F., **Stassun**, K.G. 2009, "A Multi-color Optical Survey of the Orion Nebula Cluster. I. The Catalog", *Astrophysical Journal Supplement*, Vol. 183, pp. 261-277
 74. Gomez Maqueo Chew, Y., **Stassun**, K.G., Prsa, A., Mathieu, R.D. 2009, "Near-Infrared Light Curves of the Brown Dwarf Eclipsing Binary 2MASS J05352184-0546085: Can Spots Explain the Temperature Reversal?", *Astrophysical Journal*, Vol. 699, pp. 1196-1208
 75. Mohanty, S., **Stassun**, K.G., Mathieu, R.D. 2009, "Circumstellar Environment and Effective Temperature of the Young Substellar Eclipsing Binary 2MASS J05352184-0546085", *Astrophysical Journal*, Vol. 697, pp. 713-720
 76. Meibom, S., Mathieu, R.D., **Stassun**, K.G. 2009, "Stellar Rotation in M35: Mass-Period Relations, Spin-Down Rates, and Gyrochronology", *Astrophysical Journal*, Vol. 679, pp. 679-694
 77. Aarnio, A. N., Weinberger, A. J., **Stassun**, K. G., Mamajek, E. E., & James, D. J. 2008, "A Survey for a Coeval, Comoving Group Associated with HD 141569", *Astronomical Journal*, Vol. 136, pp. 2483-2492
 78. **Stassun**, K. G., Mathieu, R. D., Cargile, P. A., Aarnio, A. N., Stempels, E., & Geller, A. 2008, "Surprising dissimilarities in a newly formed pair of 'identical twin' stars", *Nature*, Vol. 453, pp. 1079-1082
 79. Stempels, H. C., Hebb, L., **Stassun**, K. G., Holtzman, J., Dunstone, N., Glowienka, L., & Frandsen, S. 2008, "The pre-main-sequence eclipsing binary ASAS J052821+0338.5", *Astronomy and Astrophysics*, Vol. 481, pp. 747-755
 80. Cargile, P. A., **Stassun**, K. G., & Mathieu, R. D. 2008, "Discovery of Par 1802 as a Low-Mass, Pre-Main-Sequence Eclipsing Binary in the Orion Star-Forming Region", *Astrophysical Journal*, Vol. 674, pp. 329-335
 81. Aigrain, S., Irwin, J., Hebb, L., Hodgkin, S., Miller, A., Moraux, E., & **Stassun**, K. 2007, "The Monitor Project: Tracking the Evolution of Low-Mass and Pre-Main-Sequence Stars", *The Messenger*, Vol. 130, pp. 36-
 82. Reiners, A., Seifahrt, A., **Stassun**, K. G., Melo, C., & Mathieu, R. D. 2007, "Detection of Strong Activity

- in the Eclipsing Binary Brown Dwarf 2MASS J05352184-0546085: A Possible Explanation for the Temperature Reversal”, *Astrophysical Journal*, Vol. 671, pp. L149-L152
83. Irwin, J., Aigrain, S., Hodgkin, S., **Stassun**, K. G., Hebb, L., Irwin, M., Moraux, E., Bouvier, J., Alapini, A., Alexander, R., Bramich, D. M., Holtzman, J., Martin, E. L., McCaughrean, M. J., Pont, F., Verrier, P. E., & Zapatero Osorio, M. R. 2007, “The Monitor project: JW 380 - a 0.26-, 0.15-Msolar, pre-main-sequence eclipsing binary in the Orion nebula cluster”, *Monthly Notices of the Royal Astronomical Society*, Vol. 380, pp. 541-550
 84. Meibom, S., Mathieu, R. D., & **Stassun**, K. G. 2007, “The Effect of Binarity on Stellar Rotation: Beyond the Reach of Tides”, *Astrophysical Journal*, Vol. 665, pp. L155-L158
 85. **Stassun**, K. G., Mathieu, R. D., & Valenti, J. A. 2007, “A Surprising Reversal of Temperatures in the Brown Dwarf Eclipsing Binary 2MASS J05352184-0546085”, *Astrophysical Journal*, Vol. 664, pp. 1154-1166
 86. Jensen, E. L. N., Dhital, S., **Stassun**, K. G., Patience, J., Herbst, W., Walter, F. M., Simon, M., & Basri, G. 2007, “Periodic Accretion from a Circumbinary Disk in the Young Binary UZ Tau E”, *Astronomical Journal*, Vol. 134, pp. 241-251
 87. **Stassun**, K. G., van den Berg, M., & Feigelson, E. 2007, “A Simultaneous Optical and X-Ray Variability Study of the Orion Nebula Cluster. II. A Common Origin in Magnetic Activity”, *Astrophysical Journal*, Vol. 660, pp. 704-711
 88. Mathieu, R. D., Baraffe, I., Simon, M., **Stassun**, K. G., & White, R. 2007, “Dynamical Mass Measurements of Pre-Main-Sequence Stars: Fundamental Tests of the Physics of Young Stars”, *Protostars and Planets V*, Vol. pp. 411-425
 89. Feigelson, E., Townsley, L., Gudel, M., & **Stassun**, K. 2007, “X-Ray Properties of Young Stars and Stellar Clusters”, *Protostars and Planets V*, Vol. pp. 313-328
 90. Meibom, S., Mathieu, R. D., & **Stassun**, K. G. 2006, “An Observational Study of Tidal Synchronization in Solar-Type Binary Stars in the Open Clusters M35 and M34”, *Astrophysical Journal*, Vol. 653, pp. 621-635
 91. **Stassun**, K. G., van den Berg, M., Feigelson, E., & Flaccomio, E. 2006, “A Simultaneous Optical and X-Ray Variability Study of the Orion Nebula Cluster. I. Incidence of Time-correlated X-Ray/Optical Variations”, *Astrophysical Journal*, Vol. 649, pp. 914-926
 92. Stark, D. P., Whitney, B. A., **Stassun**, K., & Wood, K. 2006, “Near-Infrared Synthetic Images of Protostellar Disks and Envelopes”, *Astrophysical Journal*, Vol. 649, pp. 900-913
 93. Gomez Maqueo Chew, Y., **Stassun**, K. G., Vaz, L. P., Mathieu, R., & Valenti, J. 2006, “Eclipsing Binary Systems as Calibration for Star Formation Models”, *Revista Mexicana de Astronomia y Astrofisica Conference Series*, Vol. 26, pp. 170-
 94. **Stassun**, K. G., Mathieu, R. D., & Valenti, J. A. 2006, “Discovery of two young brown dwarfs in an eclipsing binary system”, *Nature*, Vol. 440, pp. 311-314
 95. Favata, F., Flaccomio, E., Reale, F., Micela, G., Sciortino, S., Shang, H., **Stassun**, K. G., & Feigelson, E. D. 2005, “Bright X-Ray Flares in Orion Young Stars from COUP: Evidence for Star-Disk Magnetic Fields?”, *Astrophysical Journal Supplement Series*, Vol. 160, pp. 469-502
 96. Preibisch, T., Kim, Y.-C., Favata, F., Feigelson, E. D., Flaccomio, E., Getman, K., Micela, G., Sciortino, S., **Stassun**, K., Stelzer, B., & Zinnecker, H. 2005, “The Origin of T Tauri X-Ray Emission: New Insights from the Chandra Orion Ultradeep Project”, *Astrophysical Journal Supplement Series*, Vol. 160, pp. 401-422
 97. Smith, N., **Stassun**, K. G., & Bally, J. 2005, “Opening the Treasure Chest: A Newborn Star Cluster Emerges from Its Dust Pillar in Carina”, *Astronomical Journal*, Vol. 129, pp. 888-899
 98. **Stassun**, K. G., Ardila, D. R., Barsony, M., Basri, G., & Mathieu, R. D. 2004, “X-Ray Properties of Pre-Main-Sequence Stars in the Orion Nebula Cluster with Known Rotation Periods”, *Astronomical Journal*, Vol. 127, pp. 3537-3552
 99. **Stassun**, K. G., Mathieu, R. D., Vaz, L. P. R., Stroud, N., & Vrba, F. J. 2004, “Dynamical Mass Constraints on Low-Mass Pre-Main-Sequence Stellar Evolutionary Tracks: An Eclipsing Binary in Orion

- with a 1.0 Msolar Primary and a 0.7 Msolar Secondary”, *Astrophysical Journal Supplement Series*, Vol. 151, pp. 357-385
100. Mathieu, R. D., van den Berg, M., Torres, G., Latham, D., Verbunt, F., & **Stassun**, K. 2003, “Sub-Subgiants in the Old Open Cluster M67?”, *Astronomical Journal*, Vol. 125, pp. 246-259
 101. **Stassun**, K. G., & Terndrup, D. 2003, “Angular Momentum Evolution of Young Stars: Toward a Synthesis of Observations, Theory, and Modeling”, *Publications of the Astronomical Society of the Pacific*, Vol. 115, pp. 505-512
 102. **Stassun**, K. G., van den Berg, M., Mathieu, R. D., & Verbunt, F. 2002, “Photometric variability in the old open cluster M 67. II. General survey”, *Astronomy and Astrophysics*, Vol. 382, pp. 899-909
 103. van den Berg, M., **Stassun**, K. G., Verbunt, F., & Mathieu, R. D. 2002, “Photometric variability in the open cluster M 67. I. Cluster members detected in X-rays”, *Astronomy and Astrophysics*, Vol. 382, pp. 888-898
 104. Wood, K., Smith, D., Whitney, B., **Stassun**, K., Kenyon, S. J., Wolff, M. J., & Bjorkman, K. S. 2001, “Scattered Light Models of Protostellar Envelopes: Multiple Outflow Cavities and Misaligned Circumstellar Disks”, *Astrophysical Journal*, Vol. 561, pp. 299-307
 105. van den Berg, M., Orosz, J., Verbunt, F., & **Stassun**, K. 2001, “The blue straggler S 1082: A triple system in the old open cluster M 67”, *Astronomy and Astrophysics*, Vol. 375, pp. 375-386
 106. **Stassun**, K. G., Mathieu, R. D., Vrba, F. J., Mazeh, T., & Henden, A. 2001, “A 10 Micron Search for Truncated Disks Among Pre-Main-Sequence Stars with Photometric Rotation Periods”, *Astronomical Journal*, Vol. 121, pp. 1003-1012
 107. Wood, K., Wolk, S. J., Stanek, K. Z., Leussis, G., **Stassun**, K., Wolff, M., & Whitney, B. 2000, “Optical Variability of the T Tauri Star HH 30 IRS”, *Astrophysical Journal*, Vol. 542, pp. L21-L24
 108. **Stassun**, K. G., Mathieu, R. D., Mazeh, T., & Vrba, F. J. 1999, “The Rotation Period Distribution of Pre-Main-Sequence Stars in and around the Orion Nebula”, *Astronomical Journal*, Vol. 117, p. 2941
 109. **Stassun**, K., & Wood, K. 1999, “Magnetic Accretion and Photopolarimetric Variability in Classical T Tauri Stars”, *Astrophysical Journal*, Vol. 510, pp. 892-904
 110. Mathieu, R. D., **Stassun**, K., Basri, G., Jensen, E. L. N., Johns-Krull, C. M., Valenti, J. A., & Hartmann, L. W. 1997, “The Classical T Tauri Spectroscopic Binary DQ Tau. I. Orbital Elements and Light Curves”, *Astronomical Journal*, Vol. 113, pp. 1841-

PUBLICATIONS—CONTRIBUTIONS IN CONFERENCE PROCEEDINGS

1. **Stassun**, K.G., Kratter, K.M., Scholz, A., Dupuy, T.J. 2012, *Cool Stars 17*, “An Empirical Correction for Activity Effects on the Temperatures, Radii, and Estimated Masses of Low-Mass Stars and Brown Dwarfs”
2. D. Burger, K.G. **Stassun**, J. Pepper, R. Siverd, M. Paegert, N. De Lee, 2012, ADASS 2012 Conference, “Filtergraph: A Flexible Web Application for Instant Data Visualization of Astronomy Datasets”
3. **Stassun**, K.G.; Hebb, L.; Covey, K.; West, A.A.; Irwin, J.; Jackson, R.; Jardine, M.; Morin, J.; Mullan, D.; Reid, N. 2010, *Cool Stars 16*, “The M4 Transition: Toward a comprehensive understanding of the transition into the fully convective regime”
4. **Stassun**, K. G., Hebb, L., Lopez-Morales, M., & Prsa, A. 2009, “Eclipsing binary stars as tests of stellar evolutionary models and stellar ages”, *IAU Symposium*, Vol. 258, pp. 161-170
5. Liu, M. C., **Stassun**, K. G., Allard, F., Blake, C. H., Bonnefoy, M., Cody, A. M., Day-Jones, A. C., Dupuy, T. J., Kraus, A., & Lopez-Morales, M. 2009, “Fundamental Properties of Low-Mass Stars and Brown Dwarfs”, *American Institute of Physics Conference Series*, Vol. 1094, pp. 258-266
6. **Stassun**, K. G. 2008, “Empirical Constraints on the Interiors of Low-Mass Pre-Main-Sequence Stars and Young Brown Dwarfs”, *14th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, Vol. 384, pp. 214-
7. **Stassun**, K. 2005, “What are the Drivers of X-ray Production in Pre-Main-Sequence Stars”, *Star Formation in the Era of Three Great Observatories*, Vol. pp.

8. **Stassun**, K.G., Vaz, R. L. P., Mathieu, D. R., & Stroud, N. S. 2003, "Testing Pre-Main Sequence Evolution Theory Discovery and Analysis of a Young, Low-Mass Eclipsing Binary", *Open Issues in Local Star Formation*, Vol. 299, pp. 38P-
9. **Stassun**, K. G. 2001, "A Brief Introduction to DQ Tau", *The Formation of Binary Stars*, Vol. 200
10. **Stassun**, K. G. 2001, "A 10 Micron Test of Disk-Regulated Angular Momentum Among Low-Mass Pre-Main Sequence Stars", *From Darkness to Light: Origin and Evolution of Young Stellar Clusters*, 243, 599
11. **Stassun**, K. G., Mathieu, R. D., Mazeh, T., & Vrba, F. J. 2000, "Examining the case for regulation of pre-main-sequence rotation by circumstellar disks", *Stellar Clusters and Associations: Convection, Rotation, and Dynamos*, Vol. 198, pp. 309-
12. Wood, K., Whitney, B., & **Stassun**, K. 2000, "Testing Magnetic Accretion in Classical T Tauri Stars", *Amateur - Professional Partnerships in Astronomy*, Vol. 220, pp. 404-

PUBLICATIONS—OTHER CONTRIBUTIONS

1. **Stassun**, K.G. 2010, Witness Testimony, [US House of Representatives Committee on Science and Technology, Broadening Participation in STEM](#)
2. **Stassun**, K.G. & Burger, A. 2007, "Bridging the Gap: The Fisk-Vanderbilt Masters-to-PhD Bridge Program", *American Association of Physics Teachers Interactions*
3. **Stassun**, K. G. 2005, "Building Bridges to Diversity in Physics and Astronomy", *Mercury*, Vol. 34, pp. 3-
4. **Stassun**, K.G. 2003, "Enhancing Diversity in Astronomy: Minority-Serving Institutions and Research Experiences for Undergraduates Programs", *Bulletin of the American Astronomical Society*

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: 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 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?

8. **** [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.

