

CURRICULUM VITAE:

KEIVAN GUADALUPE STASSUN

Vanderbilt University, Department of Physics & Astronomy

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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

Fisk University

Adjunct Professor of Physics, 2006-present

Vanderbilt University

Associate Professor of Physics and Astronomy, 2008-11

Assistant Professor of Physics and Astronomy, 2003-08

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

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

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, Astroinformatics 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
 Vice Chair, Committee on Diversity and the Future of the Workforce, Associated Universities for Research in Astronomy—2008-present
 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, Society for the Advancement of Chicanos and Native Americans in Science 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)

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)

Postdoctoral associates supervised:

1. Phillip Cargile (Vanderbilt University)—2010-present
2. Leslie Hebb (Vanderbilt University)—2009-present
3. Ian Nieves (Fisk University)—2009-present
4. Martin Paegert (Vanderbilt University)—2009-present
5. Erika Grundstrom (Vanderbilt University)—2007-10
6. Joshua Pepper (Vanderbilt University)—2007-present
7. David James (Vanderbilt University)—2004-08

PhD dissertations supervised, dissertation committees chaired:

1. Fabienne Bastien (Vanderbilt University, co-advised by K. Holley-Bockelmann)—2010-present
2. Matthew Richardson (Vanderbilt University)—2010-present
3. Trey Mack (Vanderbilt University)—2009-present
4. Julia Bodnarik (Vanderbilt University, NASA Co-op Fellow)—2007-present
5. Deatrick Foster (Vanderbilt University, co-advised by K. Holley-Bockelmann)—2007-present
6. Thompson LeBlanc (Vanderbilt University, NASA Graduate Research Fellow)—2006-present
7. Saurav Dhital (Vanderbilt University)—2006-present
8. Phillip Cargile (Vanderbilt University)—2005-10
9. Alicia Aarnio (Vanderbilt University)—2005-10
10. Yilen Gomez Maqueo Chew (Vanderbilt University)—2004-10

PhD dissertation committees served:

1. Cullen Blake (Harvard University)—2009
2. Ebonee Walker (Vanderbilt University)—2008-present
3. Sonali Shukla (Vanderbilt University)—2007-09
4. Soeren Meibom (University of Wisconsin—Madison)—2003-04

MA theses supervised, thesis committees chaired:

1. Eugenio Garcia (Fisk University)—2010-present
2. Michael Williams (Fisk University)—2009-present
3. Fabienne Bastien (Fisk University, now PhD student at Vanderbilt)—2008-10
4. Felipe Colazo (Fisk University, now technical staff at Gemini South Observatory)—2008-10
5. Sharina Haynes (Fisk University, now PhD student at Delaware State University)—2008-10
6. Brittany Kamai (Fisk University)—2008-present
7. Erica Morgan (Fisk University)—2008-present
8. Matthew Richardson (Fisk University, now PhD student at Vanderbilt University)—2008-10
9. Trey Mack (Fisk University, now PhD student at Vanderbilt University)—2007-09
10. Melissa Harrison (Fisk University, now PhD student at Vanderbilt University)—2005-07
11. Jedidah Isler (Fisk University, now PhD student at Yale University)—2005-07
12. Julia Bodnarik (Fisk University, now PhD student at Vanderbilt University)—2005-07
13. Luisa Zambrano (Fisk University, now PhD student at University of Texas Brownsville)—2005-06
14. Helen Jackson (Fisk University, now PhD student at Air Force Institute of Technology)—2004-06
15. Tomas Yan (Fisk University, now PhD student at Vanderbilt University)—2004-07
16. Thompson LeBlanc (Fisk University, now PhD student at Vanderbilt University)—2004-06

MA thesis committees served:

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

BA honors theses supervised, thesis committees chaired:

1. Kristie Canaday (Fisk University)—2010-present
2. Alisha Kundert (Vanderbilt University)—2010-present
3. Byron Price (Vanderbilt University)—2010-present
4. Daniel Lee (Fisk University)—2009-present
5. Dylan Wood (Vanderbilt University, now PhD student at UNLV)—2009-11
6. Rebecca Rattray (Vanderbilt University, now PhD student at Virginia Tech)—2010-11
7. Dan Burger (Vanderbilt University, now technical staff at Vanderbilt University)—2009-10
8. Calen Henderson (Vanderbilt University, now PhD student at Ohio State University)—2006-09
9. Lawrence Staten (Vanderbilt University, completed MBA at Vanderbilt University)—2006-07
10. James Ovelmen (Vanderbilt University, now PhD student at University of Texas)—2005-06
11. Felipe Colazo (Fisk University, now technical staff at Gemini South Observatory)—2005-08
12. David Hill (Fisk University, now MA student at Fisk University)—2005-08
13. Matthew Richardson (Fisk University, now PhD student at Vanderbilt University)—2005-08
14. Matthew Miller (Swarthmore College, now working in industry)—2003-04

BA honors thesis committees served:

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

Summer REU undergraduate interns supervised:

1. Charee Peters (University of Denver)—2010
2. Alex Richert (University of Hawaii)—2010
3. Roxanna Shohadaee (University of Tennessee)—2010
4. Mark Bryant (Southern University)—2009
5. Heather Cegla (Minnesota State University, now PhD student at Queens University Belfast)—2009
6. Eugenio Garcia (Johns Hopkins University, now MA student at Fisk)—2009
7. Francilia Samuel (Depauw University)—2008
8. Nathalia Alzate (Florida Tech, now MA student at Northern Arizona University)—2007
9. India Anderson (Southern University, now PhD student at Louisiana State University)—2007
10. Ximena Fernandez (Vassar College, now PhD student at Columbia University)—2007
11. Brittany Kamai (University of Hawaii, now MA student at Fisk University)—2007
12. Trey Mack (University of North Carolina, now PhD student at Vanderbilt University)—2006

GRANTS AS PI OR CO-PI

Agency	Period	Role	Type	Title	Amount
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 Institutional Integration of a Masters-to-PhD Bridge Program	\$1.25M
NSF AST	2009-12	PI	Research	Wide Low-Mass Binaries: Testing Theories of Star Formation and Evolution, and the Structure and Evolution of the Milky Way	\$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 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	2007-10	Co-PI	Outreach	Connecting Astronomy Research and Learning	\$120K

University				Sciences Research (E. Grundstrom, PI)	
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. Colloquium: University of Florida, 2011: “Empirical Constraints on the Formation of Low Mass Stars and Brown Dwarfs: A Panchromatic and Data-Intensive Approach”
2. ** International Symposium on the Origin of Stellar Masses, Exeter University, 2010, “Constraints on Stellar Models: Empirical Measurements of Masses and Brown Dwarfs at Young Ages”
3. Colloquium: University of California at San Diego, 2010, “Empirical Constraints on the Formation of Low Mass Stars and Brown Dwarfs: A Panchromatic and Data-Intensive Approach”
4. Colloquium: University of California at Berkeley, 2010, “Empirical Constraints on the Formation of Low Mass Stars and Brown Dwarfs: A Panchromatic and Data-Intensive Approach”
5. ** 16th Annual Cambridge Symposium on Cool Stars and the Sun, 2010, “Stellar Angular Momentum Evolution via Extreme Coronal Mass Ejections”
6. ** Gordon Research Conference, 2010, “Astrophysics in the Data-Intensive Era”
7. Distinguished Lecture: University of Denver, 2010, “Empirical Constraints on the Formation of Low Mass Stars and Brown Dwarfs: A Panchromatic and Data-Intensive Approach”
8. Colloquium: Carnegie Institution of Washington, 2010, “Empirical Constraints on the Formation of Low Mass Stars and Brown Dwarfs: A Panchromatic and Data-Intensive Approach”
9. Colloquium: University of Florida, 2010, “Stellar Astrophysics in the Data-Intensive Era”
10. ** IAU Symposium on the Ages of Stars, 2009, “Eclipsing binary stars as tests of stellar evolutionary models and stellar ages”
11. Colloquium: Space Telescope Science Institute, 2009, “Stellar Astrophysics in the Data-Intensive Era”
12. Colloquium: University of Chicago, 2009, “Stellar Astrophysics in the Data-Intensive Era”
13. Colloquium: Harvard University, 2009, “Stellar Astrophysics in the Data-Intensive Era”
14. Colloquium: University of Iowa, 2008, “Testing Star-Formation Models: Empirical Case Studies”
15. ** 14th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, 2008, “Empirical Constraints on the Interiors of Low-Mass Pre-Main-Sequence Stars and Young Brown Dwarfs”
16. Distinguished Lecture: Space Telescope Science Institute, 2008, “Testing Star-Formation Models: Empirical Case Studies”
17. ** International Gemini Observatory Key Science Symposium, 2007, “Discovery of the First Brown Dwarf Eclipsing Binary System: Fundamental Constraints on Substellar Astrophysics”
18. Colloquium: University of Michigan, 2007, “A Synthesis of Fundamental Issues in the Formation of Stars and Brown Dwarfs”
19. Colloquium: Boston University, 2007, “A Synthesis of Fundamental Issues in the Formation of Stars and Brown Dwarfs”
20. Colloquium: Villanova University, 2007, “A Synthesis of Fundamental Issues in the Formation of Stars and Brown Dwarfs”
21. ** From Stars to Planets Symposium, 2007, “Empirical Constraints on the Fundamental Properties of Young Stars and Brown Dwarfs in the Planet Building Epoch”
22. Colloquium: University of Maryland, 2007, “A Synthesis of Fundamental Issues in the Formation of Stars and Brown Dwarfs”
23. Colloquium: Yale University, 2006, “A Synthesis of Fundamental Issues in the Formation of Stars and Brown Dwarfs”
24. Colloquium: Columbia University, 2006, “A Synthesis of Fundamental Issues in the Formation of Stars

- and Brown Dwarfs”
25. Colloquium: University of Virginia, 2006, “The Formation of Low-Mass Stars and Brown Dwarfs”
 26. Colloquium: University of Arizona, 2006, “A Synthesis of Fundamental Issues in the Formation of Stars and Brown Dwarfs”
 27. ** Protostars & Planets V, Hawaii, 2005, “Dynamical Mass Measurements of Pre-Main-Sequence Stars”
 28. American Astronomical Society, San Diego, 2005, “Using Small Telescopes for Critical Tests of Star Formation Theory”
 29. Colloquium: University of Texas at Austin, 2004, “Unsolved Problems in Star Formation”
 30. ** Large Synoptic Telescope Science Workshop, Seattle, 2004, “Testing Star Formation Theory and Setting the Clock for Planet Formation”
 31. ** Gemini Observatory Symposium, Vancouver, 2004, “Testing Star Formation Theory with Gemini”
 32. Colloquium: SUNY Stony Brook, 2004, “Accurate, Empirical Calibration of Stellar Evolution Models”
 33. American Astronomical Society, Nashville, 2003, “Calibrating Our Chronometer of Star Formation”
 34. Colloquium: University of Washington, 2003, “Testing Star-Formation Theory: Masses and Angular Momenta of Young Stars”
 35. Colloquium: Carnegie Institution of Washington, 2003, “Measuring the Masses and Angular Momenta of Newborn Stars”
 36. Colloquium: University of Minnesota, 2003, “Testing Pre-Main-Sequence Stellar Evolution Theory”
 37. Colloquium: San Francisco State University, 2003, “Understanding the Physics of How Stars are Made”
 38. American Astronomical Society, Albuquerque, 2002, “Future Research Directions in the Angular Momenta of Young Stars”
 39. Colloquium: McDonald Observatory, 2002, “Observational Tests of Star Formation Theory”
 40. Colloquium: Laboratoire d’Astrophysique Grenoble, France, 2002, “Observational Tests of Star Formation Theory”
 41. ** IAU Symposium on the Formation of Binary Stars, 2001, “A Brief Introduction to DQ Tau”
 42. ** IAU Symposium on the Origin and Evolution of Young Stellar Clusters, 2001, “A 10 Micron Test of Disk-Regulated Angular Momentum Among Low-Mass Pre-Main Sequence Stars”
 43. Colloquium: Ohio State University, 2001, “Angular Momentum Evolution of Pre-Main-Sequence Stars”
 44. ** IAU Symposium on Stellar Clusters and Associations, 2000, “Examining the case for regulation of pre-main-sequence rotation by circumstellar disks”
 45. Colloquium: UC Berkeley, 2000, “The Rotational Evolution of Pre-Main-Sequence Stars”
 46. Colloquium: Utrecht University, The Netherlands, 2000, “The Role of Circumstellar Disks in the Rotation of Young Stars”
 47. ** European Southern Observatory, Palermo, Italy, 1999, “Examining the Regulation of Pre-Main-Sequence Rotation by Disks”

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

1. NSF MPS Distinguished Lecture, 2011, “Broadening Participation of Underrepresented Minorities in the Physical Sciences”
2. ** University of Michigan Symposium on Diversity in STEM, 2010, “The Fisk-Vanderbilt Masters-to-PhD Bridge Program”
3. American Physical Society Meeting, 2010, “The Fisk-Vanderbilt Masters-to-PhD Bridge Program”
4. Harvard University, 2009, “The Fisk-Vanderbilt Masters-to-PhD Bridge Program”
5. Women and Minorities in Astronomy Meeting, 2009, “Enhancing Diversity in Astronomy and Astrophysics”
6. ** The Future of Diversity and Opportunity in Higher Education, Conference at Rutgers University, 2008, “Networks, Collaboration, and Partnerships as Strategic Approaches to Diversity”
7. University of Iowa, 2008, “The Fisk-Vanderbilt Masters-to-PhD Bridge Program”
8. Boston University, 2008, “Building Bridges to Diversity in Physics & Astronomy”

9. ** Ford Foundation Annual Conference, 2008, “Advancing Diversity in Science and Engineering”
10. American Physical Society, 2008, “Partnerships with Minority-Serving Institutions as a Strategy for Broadening Participation of Underrepresented Minorities in Physics”
11. Yale University, 2007, “Building Bridges to Diversity in Physics and Astronomy”
12. ** University of Michigan ADVANCE Symposium, 2007, “Building Bridges to Diversity in STEM Disciplines”
13. American Physical Society Gender and Diversity Conference, 2007, “Building Bridges to Diversity in Physics and Astronomy”
14. Columbia University, 2006, “Building Bridges to Diversity in Physics and Astronomy”
15. University of Texas at Austin, 2004, “Enhancing Diversity in the Physical Sciences”
16. NSF IGERT PI Meeting, 2004, “Strategies for Improving Minority Graduate Enrollment and Retention”
17. ** Women in Astronomy II Meeting, 2003, “Enhancing Diversity in Astronomy”
18. ** American Association of Physics Teachers, 2003, “The Search for Extrasolar Planets”
19. University of Washington, 2003, “Strategies for Enhancing Diversity in Astronomy”
20. University of Minnesota, 2003, “Preparing Graduate Students as Future College Science Teachers”
21. American Astronomical Society, 2003, “The Role of Minority Serving Institutions and REU Programs for Enhancing Diversity”
22. University of Wisconsin—Madison, 2002, “Graduate Student Professional Development in Research and Teaching”
23. Ohio State University, 2001, “Teaching and the Professional Development of Graduate Students”
24. American Astronomical Society, Pasadena, 2001, “Research as a Model for the Scholarship of Teaching”
25. American Astronomical Society, Atlanta, 2000, “Scopes for Schools: An Astronomy Outreach Program for Underrepresented Minorities”

PUBLICATIONS—PEER REVIEWED JOURNALS—IN PRINT OR ACCEPTED

Citation count as of 22 May 2011 for first-author papers: 587. Citation count for all papers: 1407. (h index = 19)

1. Garcia, E.V., **Stassun**, K.G., Hebb, L., Gomez Maqueo Chew, Y., Heiser, A. 2011, *Astronomical Journal*, Apical Motion of the Massive, Benchmark Eclipsing Binary V578 Mon, in press
2. Hebb, L., Cegla, H., **Stassun**, K.G., Stempels, E., Cargile, P., & Palladino, L. “Precise Orbit Solution and Mass Measurements of MML 53, a Low-Mass, Pre--Main-Sequence Eclipsing Binary in the Lupus Cloud”, *Astronomy & Astrophysics*, in press
3. Meibom, S., Mathieu, R.D., **Stassun**, K.G., Liebesny, P., Saar, S.H. “The Color-Period Diagram and Stellar Rotational Evolution: New Rotation Period Measurements in the Open Cluster M34”, *Astronomical Journal*, in press
4. 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”, in press
5. 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
6. 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
7. 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
8. 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
 9. Townsley, L., et al. 2011, *Astrophysical Journal*, “An Introduction to the Chandra Carina Complex Project”, Vol. 194, p. 1
 10. 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
 11. **Stassun**, K.G., Sturm, S., Holley-Bockelmann, K., Burger, A., Ernst, D., Webb, D. 2010, “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
 12. Aarnio, A.N., **Stassun**, K.G., & Hughes, J. “A Calibration of the Relationship Between Solar X-ray Flares and Coronal Mass Ejections”, *Solar Physics*, Vol. 268, p. 195
 13. 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
 14. 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
 15. 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
 16. 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
 17. 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
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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 is a seminar course focusing on college teaching in the sciences. The course is primarily aimed at first-time teaching assistants, and other graduate students who are interested in improving their 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?