

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Keivan G. Stassun

eRA COMMONS USER NAME (credential, e.g., agency login): kgstassun

POSITION TITLE: Stevenson Professor of Physics & Astronomy

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of California at Berkeley	Physics, Astronomy (double)	A.B.	1994
University of Wisconsin—Madison	Astronomy	Ph.D.	2000
University of Wisconsin—Madison	NSF GK-12 Postdoctoral Fellow		2000-01
University of Wisconsin—Madison	NASA Hubble Postdoctoral Fellow		2001-03

A. Positions and Honors

EMPLOYMENT HISTORY

Vanderbilt University

Director, Vanderbilt Initiative for Autism, Innovation, and the Workforce, 2017-present
Stevenson Endowed Professor of Physics & Astronomy, 2016-present
Senior Associate Dean for Graduate Education & Research, College of Arts & Science, 2015-present
Harvie Branscomb Distinguished Professor, 2015-16
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, 2004-15
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

HHMI Professor, finalist—2017
Research Corporation for Science Advancement SEED Award—2017
Research Corporation for Science Advancement TREE Award—2015

Diversity Visionary Award, Insight into Diversity—2015
 American Physical Society Nicholson Medal for Human Outreach—2013
 Fellow of the American Association for the Advancement of Science—2012-
 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
 Chancellor's Award for Faculty Research, Vanderbilt University—2007
 Research Corporation Cottrell Scholar Award, Vanderbilt University—2006-10
 Vanderbilt Affirmative Action and Diversity Initiatives Award, Vanderbilt University—2005
 NSF Career Award, Vanderbilt University—2004-11
 NASA Hubble Postdoctoral Fellowship, UW Madison—2001-03
 NSF Astronomy and Astrophysics Postdoctoral Fellowship (declined)—2001
 Ford Foundation Minority Postdoctoral Fellowship (declined)—2001
 NSF GK-12 Postdoctoral Fellowship, UW Madison—2000-01
 Minority Scholar-In-Residence, UW Madison—2000-01
 Ford Foundation Minority Dissertation Fellowship, UW Madison—1999-2000
 University of Wisconsin Graduate Fellowship, UW Madison—1998-99
 NSF Graduate Research Fellowship, UW Madison—1995-98
 Valedictorian, Physics/Astronomy, UC Berkeley—1994
 Dorothy K. Roberts Prize for Outstanding Achievement in Astronomy, UC Berkeley—1994
 Chancellor's Scholar, UC Berkeley—1990-94

B. Peer Reviewed Publications

(UP TO DATE LISTING AVAILABLE AT: [HTTP://ASTRO.PHY.VANDERBILT.EDU/~STASSUK/PUBS.HTM](http://astro.phy.vanderbilt.edu/~stassuk/pubs.htm))

Total publications in refereed journals: 229. Citation count as of 1 Nov 2017: 11,147 (**h index = 47**)

- Stassun, K.G., Collins, K., Gaudi, B.S. 2017, "Accurate, Empirical Radii and Masses of Planets and their Host Stars with Gaia Parallaxes", *Astronomical Journal*, 153, 136
 Gaudi, S., Stassun, K.G., Collins, K., et al. 2017, "A giant planet undergoing extreme-ultraviolet irradiation by its hot massive-star host", *Nature*, 546, 514
Stassun, K.G., Torres, G. 2016, "Eclipsing Binary Stars as Benchmarks for Trigonometric Parallaxes in the Gaia Era", *Astronomical Journal*, 152, 180
Stassun, K.G., Feiden, G., Torres, G. 2014, "Empirical Tests of Pre-Main-Sequence Stellar Evolution Models with Eclipsing Binaries", *New Astronomy Reviews*, 60, 1
 Miller, C., Stassun, K.G. 2014, "A test that fails: A standard test for admission to graduate school misses potential winners", *Nature*, 510, 303
 Bastien, F.A., Stassun, K.G., Basri, G., Pepper, J.A. 2013, "An observational correlation between stellar brightness variations and surface gravity", *Nature*, 500, 427
Stassun, K.G. 2012, "A pas de trois birth for wide binary stars", *Nature*, 492, 191
Stassun, K.G., Sturm, S., Holley-Bockelmann, K., Burger, A., Ernst, D., Webb, D. 2011, "Broadening Participating of Underrepresented Minorities in the Physical Sciences: Recognizing, enlisting, and cultivating 'unrealized potential' in students", *American Journal of Physics*, 79, 374
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*, 453, 1079
Stassun, K. G., Mathieu, R.D., & Valenti, J. A. 2006, "Discovery of Two Young Brown Dwarfs in an Eclipsing Binary System", *Nature*, 440, 311

C. Research Support

Investigator: Keivan Stassun

Other agencies (including NSF) to which this proposal has been/will be

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: Collaborative Research: Triangulating on the Ages of Stars: Using Open Clusters to Calibrate Stellar Chronometers from Myr to Gyr Ages

0.1 months uncommitted academic year effort funded by Vanderbilt for this project

Source of Support: NSF AST-1109612
Total Award Amount: \$ 363,022 Total Award Period Covered: 08/01/2011 – 07/31/2017
Location of Project: Vanderbilt University
Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: _____

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title REU site: Research Experiences for Undergraduates in Physics and Astronomy at Vanderbilt University

0.1 months uncommitted academic year effort funded by Vanderbilt for this project

Source of Support: NSF
Total Award Amount: \$ 336,878 Total Award Period Covered: 05/01/2016 – 04/30/2019
Location of Project: Vanderbilt University
Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: _____

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: The Fisk-Vanderbilt Biomedical Bridge to the Doctorate

Source of Support: NIH R25 (David Cliffl, PI)
Total Award Amount: \$ 2,034,500 Total Award Period Covered: 07/01/2013 – 06/30/2018
Location of Project: Vanderbilt University
Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: 0.15 Sumr: 0.15

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: Graduate Opportunities at Fisk in Astronomy and Astrophysics Research (GO-FAAR)

Source of Support: NSF PAARE
Total Award Amount: \$ 2,200,000 Total Award Period Covered: 08/01/2014 – 07/31/2019
Location of Project: Fisk University
Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: 0.75

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: Tennessee Louis Stokes Alliance for Minority Participation Bridge to the Doctorate

0.1 months uncommitted academic year effort funded by Vanderbilt for this project

Source of Support: NSF LSAMP
Total Award Amount: \$ 987,000 Total Award Period Covered: 08/01/2015 – 07/31/2017
Location of Project: Vanderbilt University

Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: _____

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: NASA TESS Mission

0.1 months uncommitted academic year effort funded by Vanderbilt for this project

Source of Support: NASA (MIT subaward)

Total Award Amount: \$ 150,000 Total Award Period Covered: 08/01/2015 – 07/31/2019

Location of Project: Vanderbilt University

Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: _____

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: Graduate Assistance in Areas of National Need in Physics

0.1 months uncommitted academic year effort funded by Vanderbilt for this project

Source of Support: Dept Education

Total Award Amount: \$ 616,000 Total Award Period Covered: 09/01/2015 – 08/31/2017

Location of Project: Fisk University

Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: _____

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: Collaborative Research: AGEP Transformation Alliance: Bridging the PhD to Postdoc to Faculty Transitions for Women of Color in STEM

Source of Support: NSF

Total Award Amount: \$ 1,323,416 Total Award Period Covered: 09/01/2016 – 08/31/2021

Location of Project: Vanderbilt University

Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: 0.5

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: CDS&E: A New Framework for Visualization of Astronomical Datasets: A Human-in-the-Loop, Visual Cognition Approach

Source of Support: NSF

Total Award Amount: \$ 995,930 Total Award Period Covered: 07/01/2017 – 06/30/2020

Location of Project: Vanderbilt University

Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: 0.5

Support: Current Pending Submission Planned in Near Future *Transfer of Support
Project/Proposal Title: The Hypatia Catalog of Detailed Stellar Abundances: Understanding Chemical Influences on Stars and Planets in the Solar Neighborhood

Source of Support: NSF

Total Award Amount: \$ 369,637 Total Award Period Covered: 07/01/2017 – 06/30/2020

Location of Project: Vanderbilt University

Person-Months Per Year Committed to the Project. _____ Cal: _____ Acad: _____ Sumr: _____