

Julie N. Skinner

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EDUCATION

Dartmouth College **Ph.D. in Physics & Astronomy, 2014**
Hanover, New Hampshire

Dissertation: *Cataclysmic Variables and White Dwarf-M Dwarf Binaries from the SUPERBLINK Proper Motion Survey*
Advisors: John R. Thorstensen, Sébastien Lépine (Georgia State University)

University of Oklahoma, Norman, Oklahoma **B.S. in Astrophysics, 2007**
Norman, Oklahoma

National Hispanic Scholar, Oklahoma Academic Scholar (Full Tuition)
Thesis: *Detailed Photoionization Modeling of the Halo Planetary Nebula DdDm1*
Advisor: R.B.C. Henry

POSITIONS & FELLOWSHIPS

Postdoctoral Associate, Boston University 2014-present
Supervisors: Philip S. Muirhead (2016-present), Andrew West (2014-2016)

Graduate Research, Dartmouth College 2007-2014
Advisor: John Thorstensen

Graduate Fellow for Professional Development Programs 2013-2014
Dartmouth Center for the Advancement of Learning (DCAL)

GRANTS

NASA K2 Cycle 5 - Activity and Planets at the Bottom of the Main Sequence Science PI, \$50k
NASA K2 Cycle 4 - Activity and Planets at the Bottom of the Main Sequence Science PI, \$40k
NSF Graduate STEM Fellowship in K-12 Education 2010-2011 \$60k
Kitt Peak National Observatory REU Fellow 2006 \$8k
Undergraduate Research Grant, Honors College, Univ. of Oklahoma \$1k

HONORS & AWARDS

Honorable Mention, Poster Competition, Cool Stars 19 2016
Chair's Teaching Award, Dept. of Physics & Astronomy, Dartmouth College 2013
Astronomy Ambassador, American Astronomical Society 2013
J. Clarence Karcher Scholarship, Dept. of Physics & Astronomy, Univ. of Oklahoma 2006
Recognition for Meritorious Scholarship, Dept. of Physics & Astronomy, U. of Oklahoma 2004, '05, '07
National Hispanic Scholar 2003
Oklahoma Academic Scholar (Full Tuition), Univ. of Oklahoma 2003

INVITED TALKS

Talk, Special Session: Science with the Discovery Channel Telescope and Beyond, AAS #229 Jan 2017
"Proper Motions and Parallaxes of Very Low-Mass Stars using DCT Astrometry"
Colloquium, Institute for Astrophysical Research, Boston University Sept 2016
"Understanding the Solar Neighborhood through a Triptych of Low-Mass Star Populations"

Seminar, Dept. of Physics, UMass Lowell <i>“Magnetic Activity of Nearby White Dwarf-M Dwarf Binaries”</i>	June 2016
Seminar, Harvard-Smithsonian CfA Small Scale Phenomena <i>“DCT Astrometry of Very Low-Mass Stars”</i>	May 2016
Seminar, Harvard-Smithsonian CfA Exoplanet Lunch <i>“Magnetic Environments around Solar Neighborhood White Dwarf-M Dwarf Binaries”</i>	April 2016
Seminar, Carnegie Dept. of Terrestrial Magnetism <i>“Understanding the Solar Neighborhood through a Triptych of Low-Mass Star Populations”</i>	May 2015

TEACHING, MENTORING, & OUTREACH

Associate Director, Boston University NSF REU Program <i>Coordinated research and career development seminars for REU student cohort</i>	2015-2016
Co-Instructor, “From the Big Bang to Humankind”, Tufts University <i>Taught origin of the elements and exoplanet systems for cross-disciplinary non-majors course</i>	Spring 2016
Mentor, Sheila Sagar, Boston University Undergraduate	2016-2017
Co-founder & Director, Boston Univ. Women in Astronomy Lunch Assc. <i>Created and now direct a cross-hierarchical mentoring group for women in the BU Dept. of Astronomy</i>	2015-present
Workshop Facilitator, Dartmouth Center for the Advancement of Learning <i>Led workshops on teaching & learning for graduate students and postdocs. Selected topics include Collaborative Learning Techniques, Difficult Situations as a TA, Answering Controversial Questions</i>	2013-2014
Lab Instructor, Dartmouth College <i>Taught undergraduate laboratory sessions of 10-15 students each. Classes included Exploring the Universe (Intro. Astronomy), Introductory Physics II (E&M), Observational Techniques</i>	2007-2013
Teaching Assistant, Dartmouth College <i>Taught undergraduates in recitation-style office hours with example problems and assisted with homework problems. Classes included Stars and the Milky Way, High Energy Astrophysics</i>	2007-2013
Developer & Instructor, Observational Astronomy March Intensive, Hanover High School <i>Developed and instructed a short course for high school students alongside two high school teachers. Students learned about astronomical imaging and spectroscopy and manipulated their own data</i>	March 2013
MDM Observatory Observing Mentor <i>Trained undergraduate students in observing techniques. Students observed with me and independently.</i>	Various
NSF Graduate STEM Fellow in K-12 Education, Hanover, NH <i>“Resident Scientist” & Instructor in 8th grade physical science course</i>	2010-2011
Mentor, Dartmouth Women’s Mentoring Group <i>Mentor to High School girls from school-in-need</i>	Coordinator, 2010-2011 2009-2010
Instructor, Montshire Museum of Science <i>Engaged preschoolers in the scientific method</i>	2008-2013
Public Talks & Demonstrations <i>Science by the Pint, Middle School Science Cafes, Night Sky Tour at Hanover Town Library, McAuliffe-Shepard Discovery Center Summer Camps & Teen Night, Montshire Museum of Science Earth & Space Day, USA Science & Engineering Festival</i>	2007-present

PROFESSIONAL SERVICE

Organizing Committee Member, Dwarf Stars & Clusters with K2: A Workshop	2017-2018
LOC Member, Cool Stars 20	2017-2018
Referee, AAS Journals	2014-present
Organizer, BU Lunch Seminar	2015
Future Faculty Advisory Board, Dartmouth Center for the Advancement of Learning	2009-2014
Coordinator, Astronomy Journal Lunch, Dartmouth College	2012-2013
Physics & Astronomy Representative, Dartmouth Graduate Student Council	2009-2010

PROFESSIONAL SOCIETIES

Full Member, American Astronomical Society

SELECTED PROFESSIONAL DEVELOPMENT

Participated in numerous workshops on teaching associated with NSF GK-12 program, DCAL	2010-2011
<i>Principles of Learning, Collaborative Learning Techniques, Critical Moments & Diversity, Enhancing Scientific Creativity</i>	
Presenter, New England Faculty Development Consortium Conference	Fall 2008

TELESCOPE TIME AWARDED

Parallaxes of Very Low-Mass Stars	4.3m Discovery Channel Telescope
22 nights	Lowell Observatory
Metallicities of M Dwarfs with White Dwarf Companions	NASA Infrared Telescope Facility
1.5 nights	
Spectroscopy & Photometry of Cataclysmic Variables and White Dwarf-M Dwarf Binaries	
81 nights	2.4m Hiltner Telescope, MDM Observatory
34 nights	1.3m McGraw-Hill Telescope, MDM Observatory

REFEREED PUBLICATIONS

Julie N. Skinner, Dylan P. Morgan, Andrew A. West, Sébastien Lépine, John R. Thorstensen
Activity and Kinematics of White Dwarf-M Dwarf Binaries from the SUPERBLINK Proper Motion Survey
The Astronomical Journal, Vol. 154, Issue 3, article id. 118 (2017)

John R. Thorstensen, Cynthia J. Taylor, Christopher S. Peters, **Julie N. Skinner** et al.
Spectroscopic Orbital Periods for 29 Cataclysmic Variables from the Sloan Digital Sky Survey
The Astronomical Journal, Vol. 149, Issue 4, article id. 128 (2015)

Julie N. Skinner, John R. Thorstensen, Sébastien Lépine
Cataclysmic Variables in the SUPERBLINK Proper Motion Survey
The Astronomical Journal, Vol. 148, Issue 6, article id. 115 (2014)

John R. Thorstensen, **Julie N. Skinner**
Spectroscopy and Photometry of Cataclysmic Variable Candidates from the Catalina Real Time Survey
The Astronomical Journal, Vol. 144, Issue 3, article id. 81 (2012)

S. Vennes, J.R. Thorstensen, A. Kawka, P. Németh, **J. N. Skinner** et al.
Discovery of a Bright, Extremely Low Mass White Dwarf in a Close Double Degenerate System
The Astrophysical Journal Letters, Vol. 737, Issue 1, article id. L16 (2011)

Julie N. Skinner, John R. Thorstensen, Eve Armstrong, Steve Brady
The New Eclipsing Cataclysmic Variable SDSS 154453+2553
Publications of the Astronomical Society of the Pacific, Vol. 123, issue 901, pp. 259-262 (2011)

John R. Thorstensen, Christopher S. Peters, **Julie N. Skinner**
Optical Studies of 20 Longer-Period Cataclysmic Binaries
Publications of the Astronomical Society of the Pacific, Vol. 122, Issue 897, pp1285-1302 (2010)

R.B.C. Henry, K.B. Kwitter, R.J. Dufour, **J.N. Skinner**
A Multiwavelength Analysis of the Halo Planetary Nebula DdDm-1
The Astrophysical Journal, Vol. 680, Issue 2, pp. 1162-1173 (2008)

SELECTED MEETING ABSTRACTS

Julie N. Skinner, Dylan P. Morgan, Andrew A. West, John R. Thorstensen, Sébastien Lépine
Activity and Kinematics of Solar Neighborhood White Dwarf-M Dwarf Binaries
The 19th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun DOI 10.5281/zenodo.163437 (2016)

Julie N. Skinner, Andrew A. West, Jacqueline K. Faherty, Philip S. Muirhead
DCT Astrometry of Very Low-Mass Stars
The 19th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, DOI 10.5281/zenodo.163442 (2016)

Julie N. Skinner, Dylan P. Morgan, John R. Thorstensen, Sébastien Lépine
White Dwarf-M Dwarf Binaries in the Solar Neighborhood
American Astronomical Society, AAS Meeting #227, (2016)

Julie N. Skinner, John R. Thorstensen, Sébastien Lépine
Results from a Search for Nearby Cataclysmic Variables and Related Objects
American Astronomical Society, AAS Meeting #221, #148.05 (2013)

Julie N. Skinner, J. Thorstensen, S. Lépine
First Results from a Search for Nearby Cataclysmic Variables and Related Objects
American Astronomical Society, AAS Meeting #218, #127.10 (2011)

Julie Skinner, John Thorstensen, Eve Armstrong & Steve Brady
The Eclipsing Cataclysmic Variable SDSS 154453+2553
14th North American Workshop on Cataclysmic Variables & Related Objects, Poster #51, (2009)

John R. Thorstensen, C.S. Peters, H.A. Sheets, **J.N. Skinner**
New Orbital Periods for Seven Cataclysmic Variable Stars
American Astronomical Society, AAS Meeting #213, #491.07 (2009)

J.N. Skinner, R.B.C. Henry, K.B. Kwitter, R.J. Dufour
A Multiwavelength Abundance Analysis of the Halo Planetary Nebula DdDm-1
American Astronomical Society, AAS Meeting #211, #100.12 (2007)

TELEGRAMS & ANNOUNCEMENTS

D. Milisavljevic, G.H. Marion, E.Y. Hsiao, A. Soderberg, R. Margutti, M. Drout, N. Sanders, P. Challis, R. Kirshner, R. Chornock, R. Foley, and **J. Skinner**
Optical and near-infrared spectroscopy of SN 2013ak (=PSN J08070669-2803101)
The Astronomer's Telegram, #4943, Apr. 2013

J.P. Halpern, **Julie Skinner**
Outburst spectroscopy of Swift J1922.7-1716 and Optical Imaging in Quiescence
The Astronomer's Telegram, #3742, Nov. 2011