

JAMES R. A. DAVENPORT
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Curriculum Vitae

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Personal

Birth date: December 31st, 1983, Charlottesville, Virginia

Education

PH.D. IN ASTRONOMY 2009 – Present
 University of Washington
 Seattle, WA, USA

M.S. IN ASTRONOMY July 2009
 San Diego State University
 San Diego, CA, USA

B.S. IN ASTRONOMY June 2007
 B.S. IN PHYSICS
 University of Washington
 Seattle, WA, USA

Honors

CLIFF E. SMITH & RUTH KINNELL GRADUATE FELLOWSHIP 2008-2009
 AWONA HARRINGTON ASTRONOMY SCHOLARSHIP 2008-2009
 JOHN BAER PRIZE AWARD, U. WASHINGTON, DEPT. OF ASTRONOMY 2006
 MASONIC TRIBUTE AWARD 2002

Professional Experience

ASSISTANT OBSERVING SPECIALIST, APACHE POINT OBSERVATORY June – Sept. 2007
 Supervisors: Mark Klaene, Dr. Suzanne L. Hawley
 Nightly operations of APO 3.5-m telescope, instruments and software

Research Experience

GRADUATE RESEARCH ASSISTANT, SAN DIEGO STATE U. Jan 2008 – July 2009
 Supervisor: Dr. Eric Sandquist (M.S. Thesis Advisor)
 A matched-filter analysis of the structure and composition of the open cluster M67. Developing software in *IDL* used for matched-filtering of large scale survey data such as SDSS and 2MASS.

UNDERGRADUATE RESEARCH ASSISTANT, U. WASHINGTON Sept. 2006 – June 2007
 Supervisors: Dr. Suzanne L. Hawley, Dr. John J. Bochanski
 Study of M-dwarfs from SDSS, including photometric calibrations and flare rates.

ENGINEERING ASSISTANT, APACHE POINT OBSERVATORY Summer 2006, Summer 2008
 Assisted in building, testing, characterizing, and assembling a new top-end and secondary mirror structure (2006) and tertiary mirror structure (2008) for APO ARC 3.5m optical/NIR telescope.

UNDERGRADUATE RESEARCH ASSISTANT, U. WASHINGTON June 2005 – Sept. 2006
 Supervisor: Dr. Andrew A. West
 Photometric transformations of SDSS photometry for red stars.

	UNDERGRADUATE RESEARCH ASSISTANT, U. WASHINGTON Supervisor: Dr. Zeljko Ivezic 3-D analysis of stellar density in the SDSS.	May 2005 – Sept 2005
	UNDERGRADUATE RESEARCH PI, U. WASHINGTON Faculty Supervisors: Dr. Ana Larson, Dr. Bruce Balick Building and operations of 3m radio telescope.	November 2003 – June 2007
Teaching Experience	TEACHING ASSISTANT, SAN DIEGO STATE U. Taught, graded, and designed material for introductory astronomy lab course.	Fall 2007
	UPWARD BOUND TEACHING ASSISTANT, U. WASHINGTON Designed and led lab section for under-represented high school students in Upward-Bound astronomy summer class.	Summer 2006
	TEACHING ASSISTANT, U. WASHINGTON Designed and led multiple lab/quiz sections for introductory college astronomy course.	Fall 2005, Spring 2006, Spring 2007
Observing Experience	OPTICAL PHOTOMETRY (MANASTASH RIDGE OBSERVATORY, APACHE POINT OBSERVATORY, MOUNT LAGUNA OBSERVATORY) NEAR-INFRARED PHOTOMETRY (APACHE POINT OBSERVATORY) OPTICAL SPECTROSCOPY (APACHE POINT OBSERVATORY) SMALL SINGLE DISH RADIO SPECTROSCOPY (PALEN RADIO OBSERVATORY) DATA REDUCTION AND ANALYSIS IN IDL, FORTRAN, IRAF, SM SURVEY DATA RETRIEVAL AND ANALYSIS (SDSS USING SQL – 2MASS USING GATOR)	
Service & Outreach	JOURNAL REFEREE Reviewed article for Monthly Notices of the Royal Astronomical Society	2008
	SENIOR OBSERVER (MANASTASH RIDGE OBSERVATORY) Trained new undergraduates in use of the 30 telescope facilities, assisted with observing programs and data reduction.	2006 – 2007
	SCIENCE OLYMPIAD TUTOR (AVIATION HIGH SCHOOL, SEATTLE) Helped 10 high school students learn astronomy for the Science Olympiad competition.	Jan. – April 2006
	VOLUNTEER LECTURER (CENTER FOR TALENTED YOUTH) Spoke to parents about telescopes and astronomical techniques during the Johns Hopkins Universitys CTY family session.	October 2006
	OPEN HOUSE VOLUNTEER LECTURER (THEODOR JACOBSON OBSERVATORY) Giving many introductory lectures to the general public at our bimonthly open house on a wide array of astronomical topics.	2003 – 2006
Leadership Experience	JOURNAL CLUB (SDSU ASTRONOMY) Started and organized a weekly astronomy Journal Club for fellow graduate students.	2008 – 2009
	DIRECTOR, PALEN RADIO OBSERVATORY Managing of several undergraduate researchers, writing an \$8000 grant, construction, calibration and first-light of 2.7m radio telescope.	June 2003 – June 2007
	PRESIDENT, LEAGUE OF ASTRONOMERS (ASTRONOMY CLUB) Helped start UW Astronomy Club for social activities, public outreach, and peer advising.	2006

Conference Proceedings POSTER: A MATCHED FILTER ANALYSIS OF THE OPEN CLUSTER M67 WITH SDSS PHOTOMETRY
Davenport, J.R.A., Sandquist, E.L.

Presentation # 442.17, 213th AAS Conference, 2009 (Long Beach, CA)

POSTER: FLARE RATES IN LOW-MASS STARS

Krogsrud, D. A., **Davenport, J.R.A.**, Reid, I. N., Hawley, S. L.

213th AAS Conference, 2009 (Long Beach, CA)

TALK: PROGRESS OF SDSS PT CALIBRATIONS FOR RED-STARS

Davenport, J.R.A.

Spring 2007 SDSS-II Collaboration Meeting (Philadelphia, PA)

TALK: IMPROVEMENT IN THE SDSS PHOTOMETRIC CALIBRATION FOR RED STARS

Davenport, J. R. A., Bochanski, J., Covey, K. R., West, A. A., Hawley, S. L.

209th AAS Conference, 2007 (Seattle, WA)

POSTER: MEASURING THE LUMINOSITY FUNCTION OF LOW-MASS STARS
WITH MATCHED SURVEY DATASETS

K.R. Covey, J.J. Bochanski, S.L. Hawley, **J.R.A. Davenport**, I.N. Reid, D.A. Golimowski

209th AAS Conference, 2007 (Seattle, WA)

POSTER: IMPROVEMENT IN THE SDSS PHOTOMETRIC CALIBRATION FOR RED STARS

Davenport, J. R. A., Bochanski, J., Covey, K. R., West, A. A., Hawley, S. L.

209th AAS Conference, 2007 (Seattle, WA)

POSTER: SLOAN/JOHNSON-COUSINS/2MASS COLOR TRANSFORMATIONS FOR COOL STARS

Davenport, J. R. A., West, A. A.

Cool Stars 14 Conference, 2006 (Pasadena, CA)

TALK: THE UW UNDERGRADUATE RADIO TELESCOPE PROJECT

Davenport, J. R. A.

2006 Northwest Astronomers Meeting (Everett, WA)

References PROFESSOR SUZANNE L. HAWLEY

Chair, Department of Astronomy

University of Washington

Seattle, WA 98185

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PROFESSOR ANDREW A. WEST

Department of Astronomy

Boston University, CAS 422A

725 Commonwealth Ave

Boston, MA 02215

(617) 358-5879

aawest@bu.edu

PROFESSOR ERIC L. SANDQUIST

Department of Astronomy

San Diego State University

San Diego, CA 92182

erics@sciences.sdsu.edu

- Refereed Publications** A MATCHED FILTER ANALYSIS OF THE OPEN CLUSTER M67 WITH SDSS PHOTOMETRY
Davenport, J.R.A., Sandquist, E. L, (*In Prep*) (2009)
- THE LOW MASS MEMBERSHIP IN IC 2391
Davenport, J. R. A., Krogsrud, D. A., Reid, I. N., Hawley, S. L, (*In Prep*) (2009)
- THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY
Adelman-McCarthy, J.K, **et al.**, *ApJS*, 182, 543A (2009)
- THE LUMINOSITY AND MASS FUNCTIONS OF LOW-MASS STARS IN THE GALACTIC DISK: I. THE CALIBRATION REGION
K.R. Covey, S.L. Hawley, J.J. Bochanski, A.A. West, I.N. Reid, D.A. Golimowski, **J.R.A. Davenport**, T. Henry, A. Uomoto, J.A. Holtzman, *AJ*, 136, 1778 (2008)
- TIME-RESOLVED PHOTOMETRY OF THE OPTICAL COUNTERPART OF SWIFT J2319.4+2619
A.W. Shafter, **J.R.A. Davenport**, T. Gueth, S. Kattner, E. Marin, and N. Sreenivasamurthy, *PASP*, 120, 374-379, (2008)
- THE SIXTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY
Adelman-McCarthy, J.K, [31 authors], **Davenport, J.R.A.**, [118 authors], *ApJS*, 175, 297-313 (2008)
- IMPROVED PHOTOMETRIC CALIBRATIONS FOR RED STARS OBSERVED WITH THE SDSS PHOTOMETRIC TELESCOPE
Davenport, J.R.A., Bochanski, J., Covey, K.R., Hawley, S.L., West, A.A., Schneider, D., *AJ*, 134, 2430 (2007)
- SLOAN/JOHNSON-COUSINS/2MASS COLOR TRANSFORMATIONS FOR COOL STARS
Davenport, J. R. A., West, A. A., Kobelski, A., Matthiesen, C., Schmiedig, M., *PASP*, 118, 850 (2006)