James R. A. Davenport
Curriculum Vitae

University of Washington
Department of Astronomy
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Seattle, WA, 98195

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Education

Ph.D. in Astronomy — 2009 – 2015
M.S. in Astronomy — 2010
University of Washington, Seattle, WA, USA

M.S. in Astronomy — 2009
San Diego State University, San Diego, CA, USA

B.S. in Astronomy — 2007
B.S. in Physics
University of Washington, Seattle, WA, USA

Research Experience

Graduate Research Assistant, U. Washington — 2009 – 2015
Supervisors: Dr. Suzanne L. Hawley (Ph.D. Thesis Advisor), Dr. A. C. Becker, Dr. Ž Ivezić
(Published: Davenport 2012, 2013)

Graduate Research Assistant, San Diego State U. — 2007 – 2009
Supervisor: Dr. Eric Sandquist (M.S. Thesis Advisor)
(Published: Davenport & Sandquist 2010)

Undergraduate Research Assistant, U. Washington — 2005 – 2007
Supervisors: Dr. Suzanne L. Hawley, Dr. A. A. West, Dr. J. J. Bochanski
(Published: Davenport et al. 2006, 2007)

Engineering Assistant, Apache Point Observatory — 2006 – 2009

Honors

AAS Chambliss Poster Award (Honorable Mention) — 2011, 2012
Cliff E. Smith & Ruth Kinnell Graduate Fellowship (SDSU) — 2008 – 2009
Awona Harrington Astronomy Scholarship (SDSU) — 2008
John Baer Prize Award (UW) — 2006
Masonic Tribute Award — 2002

Professional Affiliations

American Astronomical Society — 2006 – Present
Sloan Digital Sky Survey collaboration — 2007 – Present
Large Synoptic Survey Telescope (Stellar Populations working group) — 2009 – Present

Professional Experience

Graduate Student Intern, Microsoft Research — 2013

Blogger: http://www.ifweassume.com — 2012 – Present
Creator of research, visualization, and data science blog that has received TV, radio, and national news coverage.

3.5-m Observing Specialist, Apache Point Observatory — Summer 2007

Teaching Experience	Student Instructor, U. Washington Created and taught IDL programming technique class for upper level undergraduates.	2010, 2011
	Teaching Assistant, U. Washington	2005 – 2007, 2010 – 2013
	Teaching Assistant, San Diego State U.	2007
	Upward Bound Teaching Assistant, U. Washington Lab TA in summer program for under-represented high school students.	Summer 2006
Technical Experience	Optical Photometry Near-Infrared Photometry (Apache Point Observatory) Optical Spectroscopy (Apache Point Observatory) Data Reduction and Analysis in IDL, FORTRAN, Python, MYSQL, IRAF Survey & Time-Domain Data Retrieval and Analysis	
Leadership Experience	Journal Club Organizer (SDSU Astronomy)	2008 – 2009
	Student Director, Palen Radio Observatory	2003 – 2007
	President, League of Astronomers (UW Astronomy Club)	2006
Service & Outreach	Guest Speaker (Everett and Seattle Astronomical Societies)	2013
	Speaker (Seattle Ignite! 19)	Feb 2013
	AAS Chambliss Undergraduate Poster Judge	2011, 2012
	Journal Referee (MNRAS)	
	UW Astro Admissions Committee Grad Representative	2011 – 2012
	Science Olympiad Tutor (Aviation High School, Seattle)	2006
	Open House Volunteer Lecturer (Theodor Jacobson Observatory)	2003 – 2006

Selected Conference Proceedings

Talk: A Very Short Period M dwarf Binary from the SDSS Stripe 82
Davenport, J.R.A., et al.
Al-Fest: Current Insights and Future Prospects in Close Binary Research, 2012 (Seattle, WA)

Poster: A Very Short Period M dwarf Binary from the SDSS Stripe 82
Chambliss Student Achievement Award Honorable Mention
Davenport, J.R.A., Becker, A.
Presentation # 329.05, 220th AAS Conference, 2012 (Anchorage, AK)

Poster: Analysis of the 2MASS Calibration Scan Database: Variability in the NIR from Minutes to Years
Davenport, J.R.A., Becker, A.
Presentation # 428.09, 219th AAS Conference, 2012 (Austin, TX)

Poster: Multi-Wavelength Stellar Variability in the Time Domain Era: M dwarf Flares from 0.3 to 2.5μm
Davenport, J.R.A., Becker, A., et al.
IAUs 285, 2011 (Oxford, UK)

Poster: M Dwarf Photometric Variability in the Optical and NIR
Chambliss Student Achievement Award Honorable Mention
Davenport, J.R.A., Becker, A., Kowalski, A.F., Hawley, S.L, Hilton, E.J.
Presentation # 326.03, 218th AAS Conference, 2011 (Boston, MA)

Poster: Mining Databases for Low Mass Star Variability
Davenport, J.R.A., Becker, A., Hawley, S.L, Kowalski, A.F., Sesar, B., Cutri, R.
Cool Stars 16 Conference, 2010 (Seattle, WA) arXiv#1101.1363

Poster: The number of rotations per stellar activity cycle in G and K main sequence stars
Erika Böhm-Vitense, **Davenport, J.R.A.**
Cool Stars 16 Conference, 2010 (Seattle, WA)

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)

Talk: Progress of SDSS PT Calibrations for Red-Stars
Davenport, J.R.A.
Spring 2007 SDSS-II Collaboration Meeting (Philadelphia, PA)

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)

First Author Publications

The SDSS–2MASS–WISE 11 Dimensional Stellar Color Locus
Davenport, J.R.A., et al., *In Prep* (2013)

SDSS J001641-000925: A Very Short Period M Dwarf Binary in the SDSS Stripe 82
Davenport, J.R.A., et al., *ApJ*, 764, 62 (2013)

Multi-wavelength characterization of stellar flares on low-mass stars using SDSS and 2MASS time domain surveys
Davenport, J.R.A., et al. *ApJ*, 748, 58 (2012)

Death of a cluster: the destruction of M67 as seen by the SDSS
Davenport, J.R.A. & Sandquist, E. L, *ApJ*, 711, 559 (2010)

Improved Photometric Calibrations for Red Stars Observed with the SDSS Photometric Telescope
Davenport, J.R.A., Bochanski, Covey, Hawley, West, Schneider, *AJ*, 134, 2430 (2007)

Sloan/Johnson-Cousins/2MASS Color Transformations for Cool Stars
Davenport, J. R. A., West, A. A., et al., *PASP*, 118, 850 (2006)

Co-Author Publications (Abridged)

Dawson, K., **et al.**, *AJ*, 145, 10 (2013)

Ahn, C. P., **et al.**, *ApJS*, 203, 21 (2012)

Characterizing the Optical Variability of Bright Blazars: Variability-based Selection of Fermi Active Galactic Nuclei
J. J. Ruan, **et al.**, *ApJ*, 760, 51 (2012)

Sayres, C., **et al.**, *AJ*, 143, 103 (2012)

Hα Emission Variability in Active M Dwarfs
Bell, K. J.; Hilton, E.J.; **Davenport, J.R.A.**; Hawley, S.L.; West, A.A.; Rogel, A.B., *PASP*, 124, 14 (2012)

Aihara, H., **et al.**, *ApJS*, 193, 29 (2011)

Eisenstein, D.J., **et al.** *AJ*, 142, 72 (2011)

The Sloan Digital Sky Survey DR7 Spectroscopic M Dwarf Catalog. I: Data
A.A. West, **et al.**, *AJ* 141, 97 (2011)

Abazajian, K. N. **et al.**, *ApJS*, 182, 543 (2009)

The Luminosity and Mass Functions of Low-Mass Stars in the Galactic Disk: I. The Calibration Region
K.R. Covey, **et al.**, *AJ*, 136, 1778 (2008)

A.W. Shafter, **J.R.A. Davenport**, et al., *PASP*, 120, 374-379, (2008)

The Sixth Data Release of the Sloan Digital Sky Survey
Adelman-McCarthy, J.K, **et al.**, *ApJS*, 175, 297-313 (2008)

References

Professor Suzanne L. Hawley
Department of Astronomy
University of Washington
Seattle, WA 98185

Professor Andrew A. West
Department of Astronomy
Boston University, CAS 422A
725 Commonwealth Ave
Boston, MA 02215

Professor Eric L. Sandquist
Department of Astronomy
San Diego State University
San Diego, CA 92182

Current as of March 20, 2013