

# SARAH JANE SCHMIDT

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<b>Employment</b>	KARL SCHWARZSCHILD POSTDOCTORAL FELLOW Leibniz-Institut für Astrophysik Potsdam (AIP)	Sept 2015–present
	COLUMBUS PRIZE POSTDOCTORAL FELLOW The Ohio State University	Sept 2012–Aug 2015
<b>Education</b>	UNIVERSITY OF WASHINGTON Ph.D. in Astronomy Thesis Title: “Activity and Kinematics of Cool and Ultracool Dwarfs” Thesis Advisor: Suzanne Hawley	2012
	UNIVERSITY OF WASHINGTON Master of Science in Astronomy	2008
	BARNARD COLLEGE OF COLUMBIA UNIVERSITY Bachelor of Arts with honors in Physics and Astronomy	2006
<b>Research Interests</b>	Magnetic activity on small stars and warm brown dwarfs Determining the ages and metallicities of cool stars Using kinematics to place M and L dwarfs in a Galactic context Luminosity and mass function at the stellar/substellar boundary	
<b>Teaching Experience</b>	INSTRUCTOR, UNIVERSITY OF WASHINGTON Instructor for an introductory topical course that I designed based on the solar neighborhood.	Summer 2012
	INSTRUCTOR, UNIVERSITY OF WASHINGTON Instructor for introduction to astronomy.	Summer 2010, 2011
	INSTRUCTOR, UNIVERSITY OF WASHINGTON Instructor for the Pre-Major in Astronomy Seminar, which involved first-year undergraduates in research projects.	Fall 2008
	TEACHING ASSISTANT, UNIVERSITY OF WASHINGTON Taught the basics of UW’s 0.6-m telescope to advanced undergraduates.	Summer 2008–2012
	TEACHING ASSISTANT, UNIVERSITY OF WASHINGTON Teaching assistant for introductory astronomy classes.	2006–2007
<b>Honors &amp; Awards</b>	Washington NASA Space Grant Graduate Fellow, 2012 NSF Graduate Fellowship Honorable Mention, 2007 and 2008 Henry Borse Prize, 2006 New York NASA Space Grant Undergraduate Summer Research Program Award, 2004 and 2005	

<b>Invited Talks</b>	“PROBING THE DYNAMIC CHROMOSPHERES OF ULTRACOOOL DWARFS OVER TIMESCALES OF A DECADE” SDSS-IV Collaboration Meeting Plenary, July 2015	
	“THE PRE-MAJOR IN ASTRONOMY PROGRAM AT THE UNIVERSITY OF WASHINGTON” Inclusive Astronomy, June 2015	
	“HOT CHROMOSPHERES AND FLARES ON COOL AND ULTRACOOOL DWARFS” University of Texas Astronomy Colloquium, September 2014 University of Oklahoma Physics and Astronomy Colloquium, September 2014	
	“HOT CHROMOSPHERES ON COOL AND ULTRACOOOL DWARFS” Case Western Reserve University Astronomy Colloquium, February 2014 University of Toledo Physics and Astronomy Colloquium, December 2013	
	“BOSS ULTRACOOOL DWARFS” SDSS-III Collaboration Meeting Plenary, June 2013	
<b>Students Supervised</b>	AMBER MEDINA, NEW MEXICO STATE UNIVERSITY UNDERGRADUATE Identifying young M and L dwarfs in a large sample of SDSS ultracool dwarfs. <i>Currently:</i> Astronomy Graduate Student at Harvard University	2014–2015
	ERIKA WAGONER, OHIO STATE UNIVERSITY UNDERGRADUATE Analyzing APOGEE data of late-K and early-M dwarfs in comparison to model grids. <i>Currently:</i> Physics Graduate Student at University of Arizona	2013–2014
	COLLIN KIELTY, UNIVERSITY OF WASHINGTON UNDERGRADUATE Worked on the calculation of spectroscopic templates based on SDSS spectra of L dwarfs. Co-author of Schmidt et al. (2014). <i>Currently:</i> Astronomy Graduate Student at University of Victoria	2012
	HEATHER GUNNING, UNIVERSITY OF WASHINGTON UNDERGRADUATE Worked on observations, data reduction, and analysis of spectroscopic observations of a sample of wide M dwarf binaries. First author of Gunning et al. (2014). <i>Currently:</i> Research and Instrumental Analyst at Space Telescope Science Institute	2011–2014
	REFEREE Astronomical Journal, Astrophysical Journal	2014–present
<b>Service</b>	NASA K2 GUEST OBSERVER REVIEW PANEL	2014
	GRADUATE REPRESENTATIVE ON ADMISSIONS COMMITTEE Facilitated graduate student contact with prospective students and co-organized prospective visiting weekend.	2010–2011
	APACHE POINT OBSERVATORY TELESCOPE ALLOCATION COMMITTEE Graduate student member of the internal University of Washington TAC; quarterly review of ~20 applications.	2010
	COOL STARS 16 LOCAL ORGANIZING COMMITTEE Assisted with planning many aspects of the conference including excursions, facilities, poster arrangement and poster abstract sorting.	2010
	CO-ORGANIZER OF UNDERGRADUATE MENTORING WORKSHOP Facilitated an afternoon workshop for the Astronomy department including presentations from the campus Undergraduate Research Program staff	2008

<b>Outreach &amp; Diversity</b>	DIVERSITY JOURNAL CLUB	2012–2015
	Instigated and facilitated a monthly journal club in the OSU astronomy department to present and discuss diversity issues.	
	SDSS TWEET OF THE WEEK	2015
	Spent a week describing my research and engaging with the public on the SDSS twitter account.	
	ORGANIZER AND CHAIR OF AAS SPECIAL SESSION	2015
	Led the committee that put together the session on “Celebrating 10 Years of Diversity With Pre-MAP” at the 225th AAS.	
	SPEAKER AT UPPER ARLINGTON PUBLIC LIBRARY ASTRONOMY SERIES	2014
	Spoke to a group of children and parents about the solar neighborhood.	
	SPEAKER AT COLUMBUS ASTRONOMY ON TAP	2013, 2015
	Presented public talks to an adult audience at a local bar.	
	OSU ASTRONOMY COFFEE BRIEFS	2013, 2015
	Created two short videos explaining the results of my publications; a large flare on a small star ( <a href="http://y2u.be/uue8G0NnjJU">http://y2u.be/uue8G0NnjJU</a> ) and magnetic activity on a large sample of ultracool dwarfs ( <a href="http://y2u.be/wwX5WkuJCU4">http://y2u.be/wwX5WkuJCU4</a> ).	
	VOLUNTEER AT 4-H ASTRONOMY DAY CAMP	2013
	Led activities with a group of 8-12 year old kids.	
	PRE-MAJOR IN ASTRONOMY PROGRAM (PRE-MAP) STAFF	2006–2012
	<ul style="list-style-type: none"> <li>Planned and led the seminar component of the program</li> <li>Recruited students at campus events and in classrooms</li> <li>Assisted in writing NSF CCLI and ASP SEED grants</li> <li>Developed an evaluation plan and conducted student interviews</li> <li>Planned field trips for 10 students to Vancouver (UBC and TRIUMF) and Portland (OMSI)</li> <li>Worked as academic mentor to a cohort of students</li> </ul>	
	RESOURCE FOR PACIFIC SCIENCE CENTER EDUCATORS	2011
	Staffed a question and answer session and provide ongoing support for educators who teach astronomy at the Seattle Pacific Science Center.	
	SPEAKER IN ENGAGE SCIENCE SEMINAR SERIES	2010
	Public talk describing current research on low mass stars and brown dwarfs.	
<b>Telescope Time Awarded</b>	MCDONALD 2.7-M (IGRINS)	2015
	Co-I: 1 night	
	IRTF 3.0-M (SPEX)	2013–2014
	PI: 2.5 nights; Co-I: 3 nights	
	LBT TWIN 8-M (LUCI, MODS)	2012–2015
	PI: 20 hours	
	HST (COS)	2013
	Co-I: 8 orbits	
	MDM 1.3-M (OPTICAL SPECTROGRAPH AND IMAGER)	2013
	PI: 14 nights	

	SDSS 2.5-M (BOSS) PI: 10,000 fibers; Co-I: 200 fibers	2010-2014
	ARC 3.5-M (TRIPLESPEC, DIS) PI: ~75 half-nights; Co-I: ~20 half-nights	2007-2012
	KPNO 2.1-M (SQUID) Co-I: 14 nights	2010-2011
	DAO 1.8-M (OPTICAL SPECTROGRAPH) PI: 4 nights; Co-I: 3 nights	2009
<b>Additional Observing Experience</b>	LBT TWIN 8-M Eighteen nights queue observing using LUCI (IR spectrograph and imager), MODS (optical spectrograph), and LBC (optical imager).	2012-2015
	MCDONALD 0.8-M Four nights of optical imaging.	2014
	ARC 0.5-M Fourteen nights of optical imaging using Flare-cam.	2009-2012
	MRO 0.8-M Supervisor for small groups of undergraduates using optical imaging; 20 nights.	2007-2012
	CTIO 4-M Two nights on the optical spectrograph.	2006

# PUBLICATIONS

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- First Author Refereed Publications**
- A8 BOSS ULTRACOOOL DWARFS I: COLORS AND MAGNETIC ACTIVITY OF M AND L DWARFS  
Schmidt, Sarah J.; Hawley, Suzanne L.; West, Andrew A.; Bochanski, John J.; Davenport, James R. A.; Ge, Jian; Schneider, Donald P.; 2015, AJ 149 158
  - A7 CALIBRATING ULTRACOOOL DWARFS: OPTICAL TEMPLATE SPECTRA, BOLOMETRIC CORRECTIONS, AND  $\chi$  VALUES  
Schmidt, Sarah J.; West, Andrew A.; Bochanski, John J.; Hawley, Suzanne L.; Kielty, Collin; 2014, PASP 126 642
  - A6 CHARACTERIZING A DRAMATIC  $\Delta V \sim 9$  MAGNITUDE FLARE ON AN ULTRACOOOL DWARF FOUND IN THE ASAS-AN SURVEY  
Schmidt, Sarah J.; Prieto, Jose L.; Stanek, K. Z.; Shappee, Benjamin J.; et al., 2014, ApJ 781 24L
  - A5 PROBING THE FLARE ATMOSPHERES OF M DWARFS USING INFRARED EMISSION LINES  
Schmidt, Sarah J.; Kowalski, Adam F.; Hawley, Suzanne L.; Hilton, Eric J.; Wisniewski, John P.; Tofflemire, Benjamin M., 2012, ApJ 745 14
  - A4 COLORS AND KINEMATICS OF L DWARFS FROM THE SLOAN DIGITAL SKY SURVEY  
Schmidt, Sarah J.; West, Andrew A.; Hawley, Suzanne L.; Pineda, J. Sebastian, 2010, AJ 139 1808
  - A3 DISCOVERY OF AN UNUSUALLY BLUE L DWARF WITHIN 10 PC OF THE SUN  
Schmidt, Sarah J.; West, Andrew A.; Burgasser, Adam J.; Bochanski, John J.; Hawley, Suzanne L., 2010, AJ 139 1045
  - A2 COOL STAR OXYGEN ABUNDANCES FROM SPECTRAL SYNTHESIS OF TiO BANDS  
Schmidt, Sarah J.; Wallerstein, George; Woolf, Vincent M.; Bean, Jacob L., 2009, PASP 121 884
  - A1 ACTIVITY AND KINEMATICS OF ULTRACOOOL DWARFS, INCLUDING AN AMAZING FLARE OBSERVATION  
Schmidt, Sarah J.; Cruz, Kelle L.; Bongiorno, Bethany J.; Liebert, James; Reid, I. Neill, 2007, AJ 133 2258
- Additional Refereed Publications**
- B17 THE BROWN DWARF KINEMATICS PROJECT (BDKP). IV. RADIAL VELOCITIES OF 85 LATE-M AND L DWARFS WITH MAGE  
Burgasser, Adam J.; Logsdon, Sarah E.; Gagne, Jonathan; Bochanski, John J.; Faherty, Jacqueline K.; West, Andrew A.; Mamajek, Eric E.; **Schmidt, Sarah J.**; Cruz, Kelle L., 2015 ApJS in press, ArXiv 1507.00057
  - B16 THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III  
Alam, Shadab and 302 co-authors including **Schmidt, Sarah J.**, 2015, ApJS 219 12
  - B15 THE CONTINUED OPTICAL TO MID-IR EVOLUTION OF V838 MONOCEROTIS  
Loebmen, Sarah R.; Wisniewski, John P.; **Schmidt, Sarah J.**; Kowalski, Adam F.; Barry, Richard K.; Bjorkman, Karen S.; Hammel, Heidi B.; Hawley, Suzanne L.; Kasliwal, Mansi M.; Lynch, David K.; Russel, Ray W.; Sitko, Michael L.; Szkody, Paula, 2015, AJ 149 17
  - B14 H $\alpha$  EMISSION FROM ACTIVE EQUAL-MASS, WIDE M DWARF BINARIES  
Gunning, Heather C.; **Schmidt, Sarah J.**; Davenport, James R. A.; Dhital, Saurav; West, Andrew A.; Hawley, Suzanne L., 2014, PASP 126 1081
  - B13 SPEX SPECTROSCOPY OF UNRESOLVED VERY LOW MASS BINARIES. II. IDENTIFICATION OF FOURTEEN CANDIDATE BINARIES WITH LATE-M/EARLY-L AND T DWARF COMPONENTS  
Bardalez Gagliuffi, Daniella C.; Burgasser, Adam J.; Gelino, Christopher R.; Looper, Dagny L.; Nicholls, Christine P.; **Schmidt, Sarah J.**; Cruz, Kelle; West, Andrew A.; Gizis, John E.; Metchev, Stanimir, 2014, ApJ 709 143

- B12 SPATIALLY RESOLVED MEASUREMENTS OF H<sub>2</sub>O, HCl, CO, OCS, SO<sub>2</sub>, CLOUD OPACITY, AND ACID CONCENTRATION IN THE VENUS NEAR-INFRARED SPECTRAL WINDOWS  
Arney, Giada; Meadows, Victoria; Crisp, David; **Schmidt, Sarah J.**; Bailey, Jeremy; Robinson, Tyler, 2014, J. Geophys. Res. Planets, 119, 1860–1891
- B11 THE TENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III APACHE POINT OBSERVATORY GALACTIC EVOLUTION EXPERIMENT  
Ahn, Christopher P. and 231 co-authors including **Schmidt, Sarah J.**, 2014, ApJS 211 17
- B10 TIME-RESOLVED PROPERTIES AND GLOBAL TRENDS IN dME FLARES FROM SIMULTANEOUS PHOTOMETRY AND SPECTRA  
Kowalski, Adam F.; Hawley, Suzanne L.; Wisniewski, John P.; Osten, Rachel A.; Hilton, Eric J.; Holtzman, Jon A.; **Schmidt, Sarah J.**; Davenport, James R. A., 2013 ApJS 207, 15
- B9 THE BARYON OSCILLATION SPECTROSCOPIC SURVEY OF SDSS-III  
Dawson, Kyle S. and 164 co-authors including **Schmidt, Sarah J.**, 2013 AJ 145 10
- B8 THE NINTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY  
Ahn, Christopher P. and 235 co-authors including **Schmidt, Sarah J.**, 2012 ApJS 203 21
- B7 MULTI-WAVELENGTH CHARACTERIZATION OF STELLAR FLARES ON LOW-MASS STARS USING SDSS AND 2MASS TIME DOMAIN SURVEYS  
Davenport, James R. A.; Becker, Andrew C.; Kowalski, Adam F.; Hawley, Suzanne L.; **Schmidt, Sarah J.**; Hilton, Eric J.; Sesar, Branimir; Cutri, Roc, 2012, ApJ 748 58
- B6 THE IMPLICATIONS OF M DWARF FLARES ON THE DETECTION AND CHARACTERIZATION OF EXOPLANETS AT INFRARED WAVELENGTHS  
Tofflemire, Benjamin M.; Wisniewski, John P.; Kowalski, Adam F., **Schmidt, Sarah J.**; Kundurthy, Praveen; Hilton, Eric J.; Holtzman, Jon A.; Hawley, Suzanne L., 2012, AJ 143, 12
- B5 SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY GALAXY, AND EXTRA-SOLAR PLANETARY SYSTEMS  
Eisenstein, Daniel J.; and 239 coauthors including **Schmidt, Sarah J.**, 2011, AJ 142 72
- B4 THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III  
Aihara, Horoaki.; and 189 coauthors including **Schmidt, Sarah J.**, 2011, ApJS 193 29
- B3 A POPULATION OF X-RAY WEAK QUASARS: PHL 1811 ANALOGS AT HIGH REDSHIFT  
Wu, Jianfeng; Brandt, W. N.; Hall, Patrick B.; Gibson, Robert R.; Richards, Gordon T.; Schneider, Donald P.; Shemmer, Ohad; Just, Dennis W.; **Schmidt, Sarah J.**, 2011, ApJ 736 28
- B2 THE SLOAN DIGITAL SKY SURVEY DATA RELEASE 7 SPECTROSCOPIC M DWARF CATALOG. I. DATA  
West, Andrew A.; Morgan, Dylan P.; Bochanski, John J.; Andersen, Jan Marie; Bell, Keaton J.; Kowalski, Adam F.; Davenport, James R. A.; Hawley, Suzanne L.; **Schmidt, Sarah J.**; Bernat, David; Hilton, Eric J.; Muirhead, Philip; Covey, Kevin R.; Rojas-Ayala, Brbara; Schlawin, Everett; Gooding, Mary; Schluns, Kyle; Dhital, Saurav; Pineda, J. Sebastian; Jones, David O., 2011, AJ 141 97
- B1 MEETING THE COOL NEIGHBORS. IX. THE LUMINOSITY FUNCTION OF M7-L8 ULTRACOOL DWARFS IN THE FIELD  
Cruz, Kelle L.; Reid, I. Neill; Kirkpatrick, J. Davy; Burgasser, Adam J.; Liebert, James; Solomon, Adam R.; **Schmidt, Sarah J.**; Allen, Peter R.; Hawley, Suzanne L.; Covey, Kevin R., 2007, AJ 133 439

**White  
Papers &  
Conference  
Proceedings**

- C7 EXAMINING THE AGE/ACTIVITY RELATIONSHIP OF ULTRACOOL DWARFS WITH GAIA  
**Schmidt, Sarah J.**, 2014, GAIA and the Unseen—The Brown Dwarf Question, eds. Ricky Smart, David Barrado, Jackie Faherty; ArXiv 1405.6206

- C6 EVALUATION OF A COLLEGE FRESHMAN DIVERSITY RESEARCH PROGRAM  
Garner, Sarah; Tremmel, Michael J.; **Schmidt, Sarah J.**; Wisniewski, John P.; Agol, Eric;  
ArXiv 1311.5486
- C5 MAPPING THE MILKY WAY'S ULTRACOOOL DWARFS, SUBDWARFS, AND WHITE DWARFS  
Dhital et al. 2011, Science White Paper for LSST Deep-Drilling Field Observations
- C4 LSST SCIENCE BOOK, VERSION 2.0  
LSST Science Collaboration, 2009; ArXiv 0912.0201
- C3 INCREASING THE NUMBER OF UNDERREPRESENTED MINORITIES IN ASTRONOMY: EXECUTIVE SUMMARY  
Norman, D. et al. 2009; Astro2010: The Astronomy and Astrophysics Decadal Survey, Position Papers, no. 38
- C2 INCREASING THE NUMBER OF UNDERREPRESENTED MINORITIES IN ASTRONOMY AT THE UNDERGRADUATE, GRADUATE, AND POSTDOCTORAL LEVELS (PAPER I)  
Norman, D. et al. 2009; Astro2010: The Astronomy and Astrophysics Decadal Survey, Position Papers, no. 39
- C1 INCREASING THE NUMBER OF UNDERREPRESENTED MINORITIES IN ASTRONOMY THROUGH K-12 EDUCATION AND PUBLIC OUTREACH (PAPER II)  
Norman, D. et al. 2009; Astro2010: The Astronomy and Astrophysics Decadal Survey, Position Papers, no. 40
- Contributed Talks**
- D4 CHROMOSPHERIC ACTIVITY ON L DWARFS  
Schmidt, Sarah J., Splinter Session: Magnetic Fields, Dynamos and Aurorae: From Brown Dwarfs to Exoplanets, 2014, Cool Stars 18
- D3 ASASSN-13BC: A DRAMATIC FLARE ON AN ULTRACOOOL DWARF  
Schmidt, Sarah J.; Prieto, Jose L.; Stanek, K. Z.; Shappee, Benjamin J., 2014, AAS 223 #315.04
- D2 KINEMATICS, COLORS, AND AGES OF ULTRACOOOL DWARFS  
Schmidt, Sarah J.; Hawley, Suzanne L., 2012, AAS 219 #330.06D
- D1 KINEMATICS OF L DWARFS  
Schmidt, Sarah J.; West, Andrew A.; Hawley, Suzanne L., 2010, Cool Stars 16
- Selected Posters**
- E11 DIVERSITY JOURNAL CLUB: A TOOL TO EDUCATE ASTRONOMERS ABOUT DIVERSITY AND INCLUSION  
Schmidt, Sarah J., 2015, Inclusive Astronomy
- E10 USING APOGEE DATA TO EXAMINE LATE-K AND EARLY-M DWARFS  
Schmidt, Sarah J.; Wagoner, Erika L.; Johnson, Jennifer; Gregorio Fernandez Trincado, Jose; Robin, Annie; Reyle, Celine; Terrien, Ryan; Allende-Prieto, Carlos; Hearty, Fred; Majewski, Steven R.; Schiavon, Ricardo P., 2015, AAS 225 #138.10
- E9 TOWARDS AN AGE/ACTIVITY RELATIONSHIP FOR ULTRACOOOL DWARFS  
Schmidt, Sarah J.; West, Andrew A.; Hawley, Suzanne L.; Bochanski, John J., 2014, Cool Stars 18
- E8 ULTRACOOOL DWARF SPECTROSCOPIC TEMPLATES, BOLOMETRIC FLUXES, AND  $\chi$  FACTORS  
Schmidt, Sarah J.; West, Andrew A.; Bochanski, John J.; Hawley, Suzanne L., 2013, AAS 222 #116.17
- E7 FIRST RESULTS FROM THE BOSS ULTRACOOOL DWARF (BUD) SAMPLE  
Schmidt, Sarah J.; Hawley, Suzanne L.; Davenport, James R. A.; West, Andrew A.; Bochanski, John J., 2013, AAS 221 #158.21
- E6 USING H $\alpha$  EMISSION TO EXAMINE THE CHROMOSPHERES OF M AND L DWARFS  
Schmidt, Sarah J.; Hawley, Suzanne L.; Bochanski, John J.; West, Andrew A., 2012, Cool Stars 17

- E5 THE FIRST DETECTION OF TIME-VARIABLE INFRARED LINE EMISSION DURING M DWARF FLARES  
Schmidt, Sarah J.; Hilton, E. J.; Tofflemire, B.; Wisniewski, J. P.; Kowalski, A. F.; Holtzman, J.; Hawley, S. L., 2011, AAS 218 #326.04
- E4 X-RAY AND RADIO OBSERVATIONS OF LP349-25  
Schmidt, Sarah J.; Osten, R. A.; Hawley, S. L.; Ngoc, P.; Reid, N., 2011, AAS 217 #242.18
- E3 COLORS AND KINEMATICS OF L DWARFS IN THE SLOAN DIGITAL SKY SURVEY  
Schmidt, Sarah J.; West, Andrew A.; Hawley, Suzanne L., 2009, Joint Annual Conference of the National Society of Black Physicist and National Society of Hispanic Physicists
- E2 COOL STAR OXYGEN ABUNDANCES FROM SPECTRAL SYNTHESIS OF TiO BANDS  
Schmidt, Sarah J.; Wallerstein, G.; Woolf, V. M.; and Bean, J. L., 2008, Cool Stars 15
- E1 ACTIVITY AND KINEMATICS OF ULTRACOOOL DWARFS  
Schmidt, Sarah J.; Cruz, K. L., 2006, Cool Stars 14