



<b>Research Experience</b> <i>continued</i>	<p>VISITING RESEARCHER, DECCAN COLLEGE POST-GRADUATE AND RESEARCH INSTITUTE, PUNE, INDIA Supervisor: K. Paddayya Investigated the possible astronomical orientation of megalithic sites.</p> <p>RESEARCH ASSISTANT, CAVENDISH ASTROPHYSICS, U. OF CAMBRIDGE Supervisor: Dave Green Studied the bulk dynamics of SNR Cas A from low-frequency radio observations.</p> <p>REU SUMMER STUDENT, ARECIBO OBSERVATORY Supervisor: Kiriaki Xilouris Correlated simultaneous dual-frequency radio observations to determine individual dispersion measures for 20 pulsars.</p> <p>SUMMER STUDENT, GRADUATE SCHOOL OF ARTS &amp; SCIENCES SUMMER PROGRAM, COLUMBIA U. Supervisor: Joe Patterson Analyzed observations of cataclysmic variables to obtain period of optical outbursts.</p>	<p>1998</p> <p>1996 – 1997</p> <p>Summer 1995</p> <p>Summer 1994</p>
<b>Recent Telescope Time</b>	<p>FINDING THE FRIENDS: HIGH-RESOLUTION SPECTROSCOPY OF NEW SDSS LOW-MASS WHITE DWARFS PI; Gemini North 8-m telescope, Semester 2007A, 17.3 hours of observing time</p> <p>THE COOLEST X-RAY EMITTING WHITE DWARFS? PI; XMM-Newton X-ray Observatory, Cycle 6, 40 ksec of observing time</p> <p>XMM-NEWTON SPECTRAL ENERGY DISTRIBUTION OF A NEW CANDIDATE ISOLATED NEUTRON STAR PI; XMM-Newton X-ray Observatory, Cycle 6, 18 ksec of observing time</p> <p>DETECTING PULSAR COMPANIONS TO VERY LOW-MASS WHITE DWARFS PI; Green Bank Telescope, Trimester 05C &amp; 06A, 14 hours of observing time</p> <p>A HIGH-PURITY DISCOVERY PROGRAM FOR ISOLATED NEUTRON STARS Co-I; Chandra X-ray Observatory, Cycle 7, 18 ksec of observing time</p> <p>IDENTIFYING STELLAR X-RAY SOURCES FROM THE RASS AND SDSS PI; Apache Point Observatory 3.5-m Telescope, over 40 half-nights of observing time</p>	<p>2007</p> <p>2007</p> <p>2007</p> <p>2005 – 2006</p> <p>2005</p> <p>2003 – 2006</p>
<b>Observing Experience</b>	<p>Optical spectroscopy (<i>Apache Point Observatory 3.5-m Telescope</i>) Radio interferometry (<i>Cambridge Low-Frequency Synthesis Telescope</i>) Radio single-dish observations (<i>Green Bank Telescope</i>) Survey data extraction (<i>GALEX, RASS, SDSS, 2MASS</i>) X-ray imaging and spectroscopy (<i>Chandra &amp; XMM-Newton</i>)</p>	
<b>Teaching &amp; Outreach</b>	<p>PROJECT ASTROBIO VOLUNTEER, THURGOOD MARSHALL ELEMENTARY SCHOOL Collaborated with teacher to include astronomy activities in curriculum for students in 4<sup>th</sup>/5<sup>th</sup> grade Bilingual Orientation Center (non-native English speakers).</p> <p>NSF GK-12 FELLOW, THURGOOD MARSHALL ELEMENTARY, SEATTLE Assisted teachers in implementing inquiry-based mathematics curriculum in 4<sup>th</sup>/5<sup>th</sup> grade BOC and mainstream 4<sup>th</sup> grade classroom.</p> <p>TEACHING ASSISTANT, U. OF WASHINGTON Led discussion sections for introductory Astronomy courses. Mean evaluation score: 4.25/5.00; mean for department TAs (2000 – 2001): 3.95/5.00.</p>	<p>2005 – 2006</p> <p>Part time, 2003 – 2005 Full time, 2002 – 2003</p> <p>5 quarters, 2000 – 2002</p>

<b>Teaching &amp; Outreach</b> <i>continued</i>	RESEARCH ASSOCIATE, CAVENDISH ASTROPHYSICS, U. OF CAMBRIDGE Produced educational materials for the Mullard Radio Astronomy Observatory. Organized public open days held July 3–4, 1999; 3000 visitors.	1998 – 1999
	INSTRUCTOR, LIBERTY PARTNERSHIP & SCIENCE AND TECHNOLOGY ENTRY PROGRAMS, BARNARD COLLEGE, COLUMBIA U. Designed and taught curricula for five–week mathematics and astronomy courses for junior–high and high school students.	Summer 1997
	CERTIFIED TO TEACH HIGH SCHOOL PHYSICS Barnard College Education Program, Columbia University Student–taught 11 <sup>th</sup> grade physics at Frederick Douglass Academy, New York, NY.	1996
<b>Selected Talks</b>	SCAVENGING FOR DEAD STARS: NEUTRON STARS AND WHITE DWARFS IN LARGE–SCALE SURVEYS New Explorations Into Science, Technology and Math K–12 School, New York, NY	Apr. 2007
	SCAVENGING FOR DEAD STARS: NEUTRON STARS AND WHITE DWARFS IN LARGE–SCALE SURVEYS Borough of Manhattan Community College Research Seminar Club, New York, NY	Apr. 2007
	STELLAR X–RAY EMITTERS FROM THE RASS AND SDSS: FROM FLARING M DWARFS TO CANDIDATE ISOLATED NEUTRON STARS Kyoto University Dept. of Astronomy, Kyoto, Japan	Dec. 2006
	CANDIDATE ISOLATED NEUTRON STARS AND OTHER EXOTIC COMPACT OBJECTS FROM SDSS American Museum of Natural History Dept. of Astrophysics, New York, NY	Nov. 2006
	MINING THE SKY TO SOLVE THE ENIGMA OF NEUTRON STARS Society for the Advancement of Chicanos and Native Americans in Science, Tampa, FL	Oct. 2006
	(MIS)USING THE WORLD’S BEST OPTICAL SURVEY: SDSS AND NEUTRON STARS Vanderbilt University Dept. of Physics & Astronomy, Nashville, TN	Feb. 2006
	CURRENT RESEARCH IN X–RAY ASTRONOMY: ONE GROUP’S WORK National Society of Black Physicists, Orlando, FL	Feb. 2005
<b>Diversity &amp; Service</b>	A PROPOSAL TO INCREASE UNDERREPRESENTED STUDENT PARTICIPATION IN ASTRONOMY: THE PRE–MAJOR IN ASTRONOMY PROGRAM (PRE–MAP) Co–wrote one of 13 proposals funded by the President’s Diversity Appraisal Implementation Fund, U. of Washington, \$21,700. See <a href="http://www.astro.washington.edu/premap/">http://www.astro.washington.edu/premap/</a>	2005
	TO FEED, TO FIX: DIVERSITY AND THE ASTRONOMY PIPELINE AT THE U.W. Co–wrote diversity plan for the U. of Washington Department of Astronomy. Available at <a href="http://www.astro.washington.edu/grad/Diversity_plan.pdf">http://www.astro.washington.edu/grad/Diversity_plan.pdf</a>	2002 – 2003
	SENATOR, GRADUATE AND PROFESSIONAL STUDENT SENATE Represented Astronomy graduate students in shared governance body, U. of Washington.	2000 – 2002
	GRADUATE CURRICULUM REFORM COMMITTEE Developed recommendations for improving the experience of first–year students in the U. of Washington Department of Astronomy’s graduate program.	2000 – 2001

**References**

PROFESSOR SCOTT ANDERSON  
University of Washington Department of Astronomy  
Box 351580  
Seattle WA 98195  
(206) 543 6307, anderson@astro.washington.edu

PROFESSOR DAVID HELFAND  
Columbia University Department of Astronomy  
Mail Code 5246  
550 West 120<sup>th</sup> Street  
New York NY 10027  
(212) 854 2150, djh@astro.columbia.edu

DR BRUCE MARGON  
Department of Astronomy & Astrophysics  
University of California  
1156 High Street  
Santa Cruz CA 95064  
(831) 459 2425, margon@ucsc.edu