Dr. Kenneth W. Cavagnolo Curriculum Vitae

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University of Waterloo Department of Physics & Astronomy 200 University Avenue West Waterloo, Ontario, Canada N2L 3G1		Office: 519-888-4567 ext. 35074 Home: 517-285-9062 E-mail: kencavagnolo@gmail.com Web: www.pa.msu.edu/people/cavagnolo/	
Education	Michigan State University Ph.D., Astronomy & Astrophysics	2005 - 2008	
	Michigan State University M.S., Astronomy & Astrophysics	2002 - 2005	
	Georgia Institute of Technology B.S., Physics	1998 - 2002	
Research Experience	Postdoctoral Fellow Supervisor: Dr. Brian McNamara, Un	2008 - Present aiv. of Waterloo	
	Graduate Research Assistant Supervisor: Dr. Megan Donahue, Mic	2003 - 2008 ch. St. Univ.	
	Graduate Research Assistant Supervisor: Dr. Jack Baldwin, <i>Mich</i> .	2002 - 2003 St. Univ.	
	Undergraduate Research Assistant Supervisor: Dr. James Sowell, <i>Geor</i> .	2000 - 2002 Inst. of Tech.	
Research Interests	 Active galactic nuclei and jets Galaxy clusters and groups Black hole formation and evolution Galaxy evolution and formation Large scale structure and cosmolog 		
Honors	 Referee for ApJ, AJ, and CanTAC Sherwood K. Haynes Award for Ou MSU College of Natural Science D American Physical Society Membe ΣΠΣ National Physics Honor Socie ΣΞ National Scientific Research So Perimeter Institute Black Hole Read Dean's List, Georgia Inst. of Tech. 	issertation Fellow 2007 - 2008 r 2002 - Present ty Member 2001 - Present ciety Member 2009 - Present	

Scientific Skills	 Extensive experience with X-ray and radio data analysis Familiarity with infrared, optical, and UV data analysis Understanding of AIPS, CASA, CIAO, and IRAF analysis software Fluent in HTML, IDL, LATEX, and PERL programming languages Worked with C, FLASH, FORTRAN, MYSQL, PYTHON, SUPERMONGO Mastery of DOS, Linux, Macintosh, and Windows computing architecture Expert of computer maintenance, system construction, and troubleshootice 	res	L
Observing Experience	Giant Metrewave Radio Telescope (GMRT) 59 hours observing 13 galaxy groups	Jan. 2	2010
	GMRT 109 hours observing 20 galaxy clusters	Feb. 2	2010
	Chandra X-ray Observatory (CXO) 21 hours observing IRAS 09104+4109	Jan. 2	2009
	Very Large Array Radio Telescope (VLA) 39 hours observing 13 giant ellipticals	Dec. 2	2008
Proposals & Grants	GMRT Cycle 17, Co-I The Power and Particle Content of Extragalactic Radio Sources PI: Dr. Somak Raychaudhury, <i>Univ. Birmingham</i>	2	2009
	GMRT Cycle 17, Co-I The Morphology of Steepest Spectrum Radio Sources in Galaxy Cluster C PI: Dr. Alastair Edge, <i>Durham Univ</i> .		2009
	GMRT Cycle 16, Co-I The Content of Giant Cavities in the IGM of Galaxy Clusters PI: Dr. Somak Raychaudhury, <i>Univ. Birmingham</i>	2	2008
	CXO Cycle 10, PI IRAS 09104+4109: An Extreme Brightest Cluster Galaxy	2	2008
	CXO Cycle 10, Co-I Conduction and Multiphase Structure in the ICM PI: Dr. Mark Voit, <i>Mich. St. Univ.</i>	2	2008
	Spitzer Cycle 5, Co-I Star Formation and AGN Feedback in BCGs PI: Dr. Megan Donahue, <i>Mich. St. Univ.</i>	2	2008
	Spitzer Cycle 5, Co-I Infrared Properties of a Control Sample of Brightest Cluster Galaxies PI: Dr. Megan Donahue, <i>Mich. St. Univ.</i>	2	2008
	NSF Grant, Co-I Star Formation in the Universe's Largest Galaxies PI: Dr. Mark Voit, <i>Mich. St. Univ.</i>	2	2008

	CXO Cycle 9, Co-I Quantifying Cluster Temperature Substructure PI: Dr. Mark Voit, <i>Mich. St. Univ.</i>	2007	
	VLA A-configuration Cycle, Co-I Radio Feedback in Clusters and Galaxies PI: Dr. Brian McNamara, <i>Univ. Waterloo</i>	2007	
Public Outreach	Astronomers Without Borders (AWB) Organized the affiliate chapter of AWB at the University	2009-present y of Waterloo.	
	International Year of Astronomy (IYA) Helped with events in Waterloo, Ontario for IYA such a and workshops.	2009 s observing nights, public talks,	
Teaching Experience	Substitute Instructor Course: "Visions of the Universe"	Fall 2006	
	Honors Physics Tutor Course: "Introductory Honors Physics I & II"	Summer 2003	
	Graduate Teaching Assistant Course: "Visions of the Universe"	2002 - 2003	
References (ordered by preference)	Dr. Megan Donahue, donahue@pa.msu.edu Tenured professor, Michigan State University	+00-1-517-884-5618	
	Dr. Brian McNamara, mcnamara@uwaterloo.ca Tenured professor, University of Waterloo	+00-1-519-888-4567 ext. 38170	
	Dr. G. Mark Voit, voit@pa.msu.edu Tenured professor, Michigan State University	+00-1-517-884-5619	
	Dr. Chris Carilli, ccarilli@nrao.edu National Radio Astronomy Observatory Chief Scientist	+00-1-505-835-7000	
	Dr. Jack Baldwin, baldwin@pa.msu.edu Associate Chair for Astronomy, Michigan State Univers	+00-1-517-884-5611	
	Dr. Paul Nulsen, pnulsen@cfa.harvard.edu Research Scientist, Center for Astrophysics at Harvard	+00-1-617-495-7043 University	
	Dr. Mike Wise, wise@science.uva.nl LOFAR Radio Observatory Chief Scientist	+31-0-521-595-564	
Personal Interests	 Academic: Environmental sciences, "Cradle2Cradle" design, and urban planning Athletics: Triathlons, baseball, rock climbing, and Georgia Tech sports 		

• Hobbies: Backpacking, reading, building model airplanes, and raising bonsai trees