KENNETH W. CAVAGNOLO
CURRICULUM VITAE

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EDUCATION

Ph.D. Astrophysics, Michigan State University	2008
M.S. Astrophysics, *magna cum laude*, Michigan State University	2005
B.S. Physics, *magna cum laude*, Georgia Institute of Technology	2002

EMPLOYMENT

ANR Opales Postdoctoral Fellow, Observatoire de la Côte d'Azur	2010–Present
Waterloo Scholars Postdoctoral Fellow, University of Waterloo	2008–10
Research Assistant, X-ray astrophysics, Michigan State University	2003–08
Research Assistant, Planetary nebulae, Michigan State University	2002–03
Research Assistant, Eclipsing stellar binaries, Georgia Institute of Technology	2000–02

AWARDS & HONORS

- Referee for AJ, ApJ, ApJL, CanTAC, & MNRAS
- Sherwood K. Haynes Award for Outstanding Graduate Student
- MSU College of Natural Science Dissertation Fellow
- Georgia Institute of Technology President's List
- Georgia Institute of Technology Four Year Dean's List
- Perimeter Institute Black Hole Reading Group

COLLABORATIONS & MEMBERSHIPS

- IXO Science Associate	2011–Present
- Consortiums: LOFAR, ASKAP (*EMU, POSSUM*), & SKA-Africa (*MeerKAT*)	2010–Present
- ΣΞ National Scientific Research Society	2009–Present
- American Astronomical Society	2002–Present
- American Physical Society	2002–Present
- ΣΠΣ National Physics Honor Society	2001–Present

SCIENTIFIC SKILLS

- Expert of radio and X-ray data reduction, analysis and interpretation
- Extensive experience analyzing IR, optical, UV, and γ-ray data
- Mastery of AIPS, CASA, CIAO, IRAF, OSA, and SAS analysis software
- Fluent in HTML, IDL, LaTeX, PERL, and PYTHON programming languages
- Familiar with C/C++, FORTRAN, MEQTREES, MYSQL, SUPERMONGO, and TCL
- Command of DOS, Linux, Macintosh, and Windows computing architectures

OBSERVING EXPERIENCE

ASKAP-Boolardy Engineering Test Array (BETA)	2011
Low Frequency Array (LOFAR)	2011
Very Long Baseline Array (VLBA)	2011
Giant Metrewave Radio Telescope (GMRT)	2010
Very Large Array Radio Telescope (VLA)	2009

GRANTS & PROPOSALS

PI, VLBA, *"Imaging the Misdirected QSO of IRAS 09104+4109"*	2010
Co-I, GMRT, *"Power and Particle Content of Extragalactic Radio Sources I–III"*	2008–10
Co-I, GMRT, *"Morphology of Steepest Spectrum Radio Sources in Galaxy Cluster Cores"*	2009
Co-I, NOAO, *"The Supermassive Cluster Survey I–V"*	2008–10
PI, CXO, *"IRAS 09104+4109: An Extreme Brightest Cluster Galaxy"*	2008
Co-I, CXO, *"Conduction and Multiphase Structure in the ICM"*	2008
Co-I, Spitzer, *"Star Formation and AGN Feedback in BCGs"*	2008
Co-I, Spitzer, *"Infrared Properties of a Control Sample of Brightest Cluster Galaxies"*	2008
Co-I, NSF, *"Star Formation in the Universe's Largest Galaxies"*	2008
Co-I, CXO, *"Quantifying Cluster Temperature Substructure"*	2007
Co-I, NRAO, *"Radio Feedback in Clusters and Galaxies"*	2007

STUDENT ADVISEMENT

C. Kirkpatrick, Ph.D., ICM Abundance Distributions	2008–10
M. Rohanizadegan, Ph.D., Understanding SMBH Accretion and Spin	2008–10
J. King, NSERC REU, Quantifying Scatter in the P_{jet}-P_{radio} Relation	2010
B. Whuiska, NSERC REU, The Largest BCG Cores in the *HST* Archive	2009
R. Myers, NSERC REU, Galaxy Cluster Radio Sources in the 400 deg^2 Survey	2009

SERVICE & TEACHING

Local Organizing Committee, *"Non-thermal Phenomena in Colliding Galaxy Clusters"*	2010
Local Organizing Committee, UW International Year of Astronomy	2009
Physics Tutor, *"Introductory Honors Physics I & II"*	2003
Substitute Instructor & Teaching Assistant, *"Visions of the Universe"*	2002,'03,'06

REFERENCES

Megan Donahue, Michigan State University	donahue@pa.msu.edu; +00(1)5178845618
Mark Voit, Michigan State University	voit@pa.msu.edu; +00(1)5178845619
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