

CURRICULUM VITAE

Michael R. García
Smithsonian Astrophysical Observatory
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Cambridge, MA 02138

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Ph.D Harvard University 1987 Astronomy
B.S. MIT 1978 Earth and Planetary Sciences
Citizenship: U.S.

Positions Held

SAO Astrophysicist, 4/2011-present
IXO/Con-X SAO Science Lead, 9/03-4/2011
Mission Planning Scientist, AXAF Science Center, 9/94-9/03
Project Scientist, Einstein Data Center, 10/91-9/94
Acting Project Scientist, Einstein Data Center, 2/91-10/91
Archive Scientist, Einstein Data Center, 2/90-2/91
Instrument Scientist, AXAF High Resolution Camera, 8/87-2/90

Professional Duties, Advisory Committees

Chair/vice-Chair SAO Council, 2009-2011
Scientific Lead SAO/Southampton Masters in Astrophysics Program, 2005-present
Member CfA Director Search Advisory Committee, 6/03-4/04
Editor of Proceedings for COSPAR 34th Assembly, "Next Generation X-ray
Observatories", Houston TX, Oct. 2002.
Chairman of Science Organizing Committee for "Two Years of Science with Chandra"
Symposium, Washington DC, Sept 5-7 2001.
Reviewer for: NSF, NASA/ADP, GINGA, ASCA, CfA TAC, Harvard Astro 98
Referee for: *Ap.J.*, *A&A*, *NATURE*, *PASJ*, *AJ*
NATURE News and Views contributor
Member HST/DADS (Data Archive and Distribution System) Users
Committee 1991-1993
Member NASA/HEASARC (High Energy Archive Science Research Center) Users
Committee 1991-1994
Member NASA/SOMOWG (Science Operations Management Operations Working
Group) Advisory Committee 1994-1995

Post-Docs Supervised/Hosted:

Dr. Robin Barnard, SAO/NASA Grants, 2010-present
Dr. Jose Galache, NASA Grants, 2006-2010
Dr. Manuel Perez-Torres, NASA Grants, 2003-2006
Dr. Benjamin Williams, NASA Grants, 2002-2006
Dr. Danny Steeghs, Clay Fellowship, 2003-2007
Dr. Albert Kong, Croucher Fellowship, NASA Grants, 2001-2003

Graduate Students Supervised:

Sam Park, Southampton, 2010-2011
Junayd Miah, 2009-2010

Elizabeth Bartlett, 2008-2009 (now at Southampton)
Richard Hextall, Southampton 2007-2008
Matthew Boswell, Southampton 2006-2007 (now at IoA)

Awards

Smithsonian Institution Special Achievement Award 2001
NASA Group Achievement Award (Chandra) 2000
Smithsonian Institution Special Achievement Award 2000
NASA Group Achievement Award (Chandra Operations Team) 2000
Smithsonian Institution Special Achievement Award 1997
Smithsonian Institution Special Achievement Award 1995
NASA Group Achievement Award (ROSAT) 1991
Smithsonian Institution Fellowship 1985-1987
National Science Foundation Fellow 1982-1985
Harvard University Fellow 1981-1982

Professional Societies

American Astronomical Society
AAS HEAD Member

Research Topics

Observational studies of black holes (small and large) , Multiwavelength studies of accreting collapsed objects, gamma-ray bursters, x-ray observatory design and instrumentation, scientific data systems, symbiotic stars, RS CVn stars.

Studies of black holes and accreting collapsed objects: Studies of the XRB population, X-ray transients, and nuclear Black Hole in M31. Multi-wavelength studies of Low-Mass X-ray Binaries, concentrating on X-ray, IR, and optical wavelengths, but including radio and UV wavelengths. Comparisons of Black Hole and Neutron Star X-ray transients and advection dominated models. Optical and X-ray follow-up of Gamma-Ray Bursters.

X-ray Observatory design and Instrumentation: Optimization of the Constellation-X observatory design to match selected driving science requirements, design and testing components of the AXAF High Resolution Camera (HRC), including acquisition and testing of new micro-channel plates, and optimizing instrumental sensitivity. Design and testing of ROSAT HRI, concentrating on the UV/Ion shields; analysis of in-flight calibration of ROSAT HRI. Design and testing of the Energetic X-ray Imaging Telescope Experiment (EXITE). Designing and programming the data acquisition system (based on a μ VAX II).

Scientific Data Systems: Production and distribution of CDROMs containing Einstein HRI data and IPC Slew Survey, including software and documentation for its analysis. Design and development of network based systems to distribution of all Einstein data. As Einstein Data Center Project Scientist, responsible supervisor for 20+ employees

and \$2M/year budget.

Measurement of radial velocity curves in Symbiotic Stars: This project was the first (successful) attempt to measure the orbital parameters of a number of Symbiotic Stars. The number of orbital periods known has been nearly doubled. It was shown that the entire class can be understood with a binary model, and differences in the individual stars can be understood in terms of their newly determined orbital parameters.

X-ray studies of RS CVn stars: The discovery of hard X-ray flares in RS CVn variables was reported in the 1980 García *et al.* article. This discovery solved a long standing question in X-ray astronomy about the origin of the ‘high galactic latitude transients’. They are caused by flares in RS CVn stars.

Research Grants, Total \$1.7M as PI

2012-2013, NASA/Chandra(AO13)/HST/EVLA PI, “M31*, A Resolved Low Luminosity Accretion Flow Around a Murmuring Monster”, \$96k
2012-2013, NASA/Chandra(AO13)/HST PI, “Monitoring M31 for BHXNe”, \$70k
2011-2012 –SAO Endowment Grant, “Black Holes In Our Nearest Neighbor Galaxy”, \$60k
2011-2013 –NASA/Chandra(AO12)/HST PI, “Monitoring M31 for BHXNe”, \$66k
2010-2012 –NASA/Chandra(AO11)/HST PI, “Monitoring M31 for BHXNe”, \$55k
2009-2011 –NASA/Chandra(AO10)/HST PI, “Monitoring M31 for BHXNe”, \$61k
2008-2010 –NASA/Chandra(AO9)/HST PI, ”Continued M31 Monitoring for Black Hole X-ray Novae”, \$24k
2008-2010 –NASA/Chandra(AO9)/HST PI, ”Continued M31 Monitoring for Black Hole X-ray Novae”, \$47k
2006-2008 –NASA/Chandra(AO7)/HST PI, ”Black Hole X-ray Novae in M31”, \$45k
2006-2008 –NASA/Chandra(AO7)/HST PI, ”Black Hole X-ray Novae in M31”, \$30k
2005-2007 –NASA/Chandra(AO6)/HST PI, ”M31* - The Nearest ExtraGalactic Supermassive Black Hole”, \$70k
2003-2005 –NASA/Chandra(AO5)/HST PI, ”Black Hole Transients in M31”, \$80k
2003-2005 –NASA/Chandra(AO5)/HST PI, ”MultiWavelength Study of Cen X-4”, \$50k
2001-2002 –NASA/Chandra(AO3) PI, ”Black Hole Transients in M31”, \$100k
2001-2002 –NASA/Chandra(AO3)/HST Co-I, ”Multiwavelength Study of XTE J1118+480”, \$50k
2001-2006 –NASA/LTSA PI, “The [next] Nearest Black Holes”, \$270k
2001-2006 –NASA/LTSA co-I, “SuperSoft X-ray Sources” (R. DeStefano PI), \$500k
2000-2001 –NASA/HST(c10)/Chandra PI, “Black Hole Transients in M31”, \$120K
2000-2001 –NASA/Chandra(AO2)/HST PI, “Do Quiescent Black Hole Accretion Disks Accrete?”, \$60K
2000-2001 –NASA/Chandra(AO2) co-I, “XTE J1118+480, a DD/TOO Proposal”, \$20K
1999-2000 –NASA/HST/DD 8553, PI, “A Bright X-ray Transient in M31”, \$25K
1994-1999 –NASA UV/VIS, PI, “Searching for Black Holes”, \$160K
1993-1994 –ROSAT, PI “The Lightcuve of 4U2129+47 in a Low State”, \$15K
1993-1994 –ROSAT, Co-I on 3 other proposals

1991-1992 –ADP, PI “Simultaneous IUE/ROSAT Observations of EXO0748-67”, \$30K
 1991-1991 –ROSAT, Co-I, “ROSAT Observations of the X-ray Binary HD 154791”
 1990-1991 –ROSAT, PI “Observations of the X-ray Triple 4U2129+47”, \$20K
 1990-1991 – IUE Co-I, – “Simultaneous IUE/ROSAT Observations of Atoll Low-Mass
 X-ray Binaries”
 1990-1991 –ROSAT, Co-I “X-ray Observations of the Eclipsing Millisecond Pulsar”
 1990-1991 –ROSAT, Co-I “ROSAT Selected Area Survey - Eridanus”
 1990-1991 –ROSAT, Co-I on 3 other proposals
 1989-1990 – IUE Co-I, – “Simultaneous X-ray/UV Observations of Cyg X-2”
 1986 – EXOSAT Co-I, “Simultaneous X-ray and Radio Observations of GX13+1”

An ADS Search shows 394 publications as of 04/2011, 103 of which are referred

Refereed Publications through 2006 only

The 2005 Outburst of the Halo Black Hole X-Ray Transient XTE J1118+480, Zurita et al
 2006, ApJ...644..432Z
 A Catalog of Transient X-Ray Sources in M31, Williams, B. F. and Naik, S. and Garcia,
 M. R. and Callanan, P. J., 2006, ApJ...643..356W
 A Soft X-Ray Transient in the M31 Bulge, Williams, B. F. and Garcia, M. R. and
 McClintock, J. E. and Primini, F. A. and Murray, S. S., 2006. ApJ...637..479W
 UBVRI Light Curves of 44 Type Ia Supernovae, Jha et al 2006AJ....131..527J
 A Potential Supernova Remnant-X-Ray Binary Association in M31, Williams, B. F. and
 Barnard, R. and Garcia, M. R. and Kolb, U. and Osborne, J. P. and Kong, A. K. H.,
 2005, ApJ...634..365W
 Chandra and HST Study of a New Transient X-Ray Source in M31, Williams, B. F. and
 Garcia, M. R. and McClintock, J. E. and Primini, F. A. and Murray, S. S., 2005,
 ApJ...632.1086W
 A Possible Detection of M31* with Chandra, Garcia, M. R. and Williams, B. F. and Yuan,
 F. and Kong, A. K. H. and Primini, F. A. and Barmby, P. and Kaaret, P. and Murray,
 S. S., 2005, ApJ...632.1042G
 On the Binary Nature of 1RXS J162848.1-415241, Torres, M. A. P.; Garcia, M. R.; Steeghs,
 D.; McClintock, J. E., 2005, ApJ...632..514T
 Optical Constraints on an X-ray Transient Source in M31, Williams, Benjamin F.; Garcia,
 Michael R.; Primini, Frank A.; McClintock, Jeffrey E.; Murray, Stephen S., 2005,
 ApJ...631..832W
 M74 X-1 (CXOU J013651.1+154547): An Extremely Variable Ultraluminous X-Ray
 Source, Krauss, M. I.; Kilgard, R. E.; Garcia, M. R.; Roberts, T. P.; Prestwich,
 A. H., 2005, ApJ...630..228K
 A Chandra Survey of Nearby Spiral Galaxies. I. Point Source Catalogs, Kilgard, R.E., et
 al, 2005, ApJS..159..214K
 An X-Ray Transient and Optical Counterpart in the M31 Bulge, Williams, Benjamin F.;
 Garcia, Michael R.; McClintock, Jeffrey E.; Kong, Albert K. H.; Primini, Frank A.;
 Murray, Stephen S., 2005ApJ...628..382W
 Discovery of an X-Ray Nova in M31, Williams, Benjamin F.; Garcia, Michael R.; Kong,
 Albert K. H.; Primini, Frank A.; Murray, Stephen S., 2005, ApJ...620..723W

- Optical and X-ray observations of the neutron star soft X-ray transient XTE J1709-267, Jonker, P. G.; Galloway, D. K.; McClintock, J. E.; Buxton, M.; Garcia, M.; Murray, S., 2004, MNRAS.354..666J
- Two New X-Ray/Optical/Radio Supernova Remnants in M31, Williams, Benjamin F.; Sjouwerman, Lornt O.; Kong, Albert K. H.; Gelfand, Joseph D.; Garcia, Michael R.; Murray, Stephen S., 2004, ApJ...615..720W
- Why are X-Ray Sources in the M31 Bulge So Close to Planetary Nebulae?, Williams, Benjamin F.; Garcia, Michael R.; McClintock, Jeffrey E.; Kong, Albert K. H., 2004, AJ....128.1588W
- MMT Observations of the Black Hole Candidate XTE J1118+480 near and in Quiescence, Torres, M. A. P.; Callanan, P. J.; Garcia, M. R.; Zhao, P.; Laycock, S.; Kong, A. K. H., 2004, ApJ...612.1026T
- Correlated X-Ray and Optical Variability in V404 Cygni in Quiescence, Hynes, R. I.; Charles, P. A.; Garcia, M. R.; Robinson, E. L.; Casares, J.; Haswell, C. A.; Kong, A. K. H.; Rupen, M.; Fender, R. P.; Wagner, R. M.; and 4 coauthors, 2004, ApJ...611L.125H
- Multiwavelength Spectrum of the Black Hole XTE J1118+480 in Quiescence, McClintock, Jeffrey E.; Narayan, Ramesh; Garcia, Michael R.; Orosz, Jerome A.; Remillard, Ronald A.; Murray, Stephen S. 2003 ApJ 593, 435
- A Synoptic X-Ray Study of M31 with the Chandra High Resolution Camera, Williams, Benjamin F.; Garcia, Michael R.; Kong, Albert K. H.; Primini, Frank A.; King, A. R.; Di Stefano, Rosanne; Murray, Stephen S., 2004, ApJ...609..735W
- Preface, Advances in Space Research, Garcia, M.R., 2004 Volume 34, Issue 12, p. 2617-2617
- Supersoft X-Ray Sources in M31. I. A Chandra Survey and an Extension to Quasi-soft Sources, Di Stefano, R.; Kong, A. K. H.; Greiner, J.; Primini, F. A.; Garcia, M. R.; Barmby, P.; Massey, P.; Hodge, P. W.; Williams, B. F.; Murray, S. S.; and 2 coauthors, 2004, ApJ...610..247D
- A search for the optical and near-infrared counterpart of the accreting millisecond X-ray pulsar XTE J1751-305, Jonker, P. G.; Nelemans, G.; Wang, Z.; Kong, A. K. H.; Chakrabarty, D.; Garcia, M.; Groot, P. J.; van der Klis, M.; Kerr, T.; Mobasher, B.; and 7 coauthors, 2003, MNRAS.344..201J
- Resolved Jets and Long Period Black Hole X-ray Novae, M.R. Garcia (1), J. M. Miller (1), J. E. McClintock (1), A. R. King (2), J. Orosz (3) 2003 ApJ, 591, 388
- Time-resolved Spectroscopy of the M15 X-ray Binary AC211/X2127+119; M.A.P.Torres (1), P. J. Callanan (1), M. R. Garcia 2003, MNRAS 341, 1231
- Discovery of Radio/X-Ray/Optical-resolved Supernova Remnants in the Center of the Andromeda Galaxy, Kong, A. K. H.; Sjouwerman, L. O.; Williams, B. F.; Garcia, M. R.; Dickel, J. R. 2003 ApJ ApJ, 590L, 21
- Dynamical Evidence for a Black Hole in the Microquasar XTE J1550-564, Orosz, JA, Groot, PJ, van der Klis, M., McClintock, JE, Garcia, MR, Zhao, P, Jain, RK, Bailyn, CD, and Remillard, RA.,2002, ApJ...568..845O
- Chandra Studies of the X-Ray Point Source Luminosity Functions of M31, Kong, Albert K. H.; DiStefano, Rosanne; Garcia, Michael R.; Greiner, Jochen, 2003, ApJ...585..298K
- X-Ray Point Sources in the Central Region of M31 as Seen by Chandra, Kong, Albert

- K. H.; Garcia, Michael R.; Primini, Francis A.; Murray, Stephen S.; Di Stefano, Rosanne; McClintock, Jeffrey E., 2002, *ApJ*...577..738K
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- Spectroscopic observations of the candidate sgB[e]/X-ray binary CI Camelopardalis, Hynes, R. I.; Clark, J. S.; Barsukova, E. A.; Callanan, P. J.; Charles, P. A.; Collier Cameron, A.; Fabrika, S. N.; Garcia, M. R.; Haswell, C. A.; Horne, Keith; and 5 coauthors, 2002, *A&A*...392..991H
- The Peculiar Infrared Counterpart of GX 17+2, Callanan, Paul J.; Curran, Peter; Filippenko, Alexei V.; Garcia, Michael R.; Margon, Bruce; Deutsch, Eric; Anderson, Scott; Homer, Lee; Fender, Rob P., 2002, *ApJ*...574L.143
- Optical monitoring of GM Sgr and discovery of a Mira and a short-period pulsator, Gieles, M.; Orosz, J. A.; Hulleman, F.; Brogt, E.; Bailyn, C. D.; Garcia, M. R., 2002 *IBVS*.5291....1G
- Discovery of four close binary stars in Sagittarius, Gieles, M.; Orosz, J. A.; Hulleman, F.; Brogt, E.; Bailyn, C. D.; Garcia, M. R., 2002 *IBVS*.5289....1G
- Ten new semi-regular variables in Sagittarius, Gieles, M.; Orosz, J. A.; Hulleman, F.; Brogt, E.; Bailyn, C. D.; Garcia, M. R., 2002 *IBVS*.5274....1G
- The X-ray Spectra of Black Hole X-ray Novae in Quiescence as Measured by *Chandra*, Kong, McClintock, Murray, Barret, 2002, *ApJ*...570..277K
- A Black Hole in the Superluminal Source SAX J1819.3-2525 (V4641 Sgr), Orosz, Jerome A.; Kuulkers, Erik; van der Klis, Michiel; McClintock, Jeffrey E.; Garcia, Michael R.; Callanan, Paul J.; Bailyn, Charles D.; Jain, Raj K.; Remillard, Ronald A., 2001 *ApJ*...555..489O
- Modeling the Low State Spectrum of the X-ray Nova XTE J1118+480, A. Esin, McClintock, Drake, Garcia, Hynes, Haswell, Marshall, and Munro, 2001, accepted for *ApJ*, 2001 *ApJ*...555..483E 555.
- Complete and Simultaneous Spectral Observations of the Black Hole XTE J1118+480, McClintock, Haswell, Garcia, Drake, Hynes, Marshall, Munro, Chaty, Garnavich, Groot, Lewin, Mauche, Miller, Pooley, Shrader, Vrtilik, 2001 *ApJ*, 555, 477M
- New Evidence for Black Hole Event Horizons from *Chandra*, Michael R. Garcia, Jeffrey E. McClintock, Ramesh Narayan, Paul Callanan, Stephen S. Murray, 2001 *ApJ*...553L..47G
- Bright X-Ray Sources in M31 Globular Clusters, R. DiStefano, A.K.H. Kong, M. Garcia, P. Barmby, J. Greiner, S.S. Murray, F.A. Primini, 2002, *ApJ*...570..618D
- A Black Hole of $> 6 M_{\odot}$ in the X-ray Nova XTE J1118+480, J. E. McClintock M. R. Garcia, N. Caldwell, E. E. Falco, P. M. Garnavich, P. Zhao, 2001 *ApJ*...551L.147M
- Optical Spectral Monitoring of XTE J1118+480 in Outburst - I. Evidence for a Precessing Accretion Disk, MAP Torres, PJ Callanan, MR Garcia, P Garnavich, Z Balog, P Berind, M Brown, M Calkins, and A Mahdavi, 2002 *ApJ*...569..423
- A New Way to Detect Massive Black Holes in Galaxies, Accepted for *ApJ Letters*, De Stefano, Greiner, Garcia, Murray, 2001 *ApJ*...551L..37D
- Optical and X-ray Observations of Aql X-1 for a Complete Outburst Cycle, RK Jain, CD Bailyn, MR Garcia, and AM Levine, submitted to *ApJ* Feb 2001.
- Observation of X-ray Lines from a Gamma-Ray Burst (GRB991216): Evidence of Moving

- Ejecta from the Progenitor; Piro, Garmire, Garcia, Stratta, Costa, Feroci, Meszaros, and Vietri, 2000Sci...290..955P
- The X-Ray Afterglow of GRB 000926 Observed by BeppoSAX and Chandra: A Mildly Collimated Fireball in a Dense Medium? Piro, L.; Garmire, G.; Garcia, M. R.; et al 2001ApJ...558..442P
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- A First Look at M31 with Chandra, M.R. Garcia, S.S. Murray, F.A. Primini, W. Forman, C. Jones, 2000, ApJ Lett 537 L23.
- A Search for the IR Counterpart to the black hole Candidate 4U1630-47, P.J. Callanan, J. F. McCarthy, M.R. Garcia, 2000, A&A, 355, 1049C
- Two Neutron Star SXT in Quiescence, 4U2129+47 and EXO 0748-676, M. R. Garcia and P. J. Callanan 1999, AJ 118, 1390.
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- Aql X-1 in Outburst and Quiescence, M.R. Garcia, P. Callanan, J. McCarthy, K. Eriksen, R. Hjellming, 1999, ApJ 518, 422
- The Rapid Decay of the Optical Emission from GRB 980326 and Its Possible Implications, P.J. Groot et. al, 1998, ApJ, 502, 123.
- Power-Law Decays in the Optical Counterparts of GRB 970228 and GRB 970508, M. R. Garcia, P. Callanan, D. Moraru, J. E. McClintock, C. Hergenrother, E. Tollestrup, S. Willner, C. R. Robinson, C. Kouveliotou and J. van Paradijs, 1998, ApJ Letters, 500, L105.
- Advection Dominated Accretion and Black Hole Event Horizons, R. Narayan, M.R. Garcia, and J.E. McClintock, ApJ Lett 1997, 478 L79
- On the Mass of the Black Hole in GS2000+25, P. Callanan, M. Garcia, A. Filippenko, I. McLean and H. Teplitz, 1996 ApJL 470, L57.
- Observations of the X-ray Nova GRO J0422+32: III: A Low Inclination X-ray Nova Paul J. Callanan, Michael R. Garcia, Jeffrey E. McClintock, Ping Zhao, 1996 ApJ 461 351.
- Observations of the X-ray Nova GRO J0422+32: II : Optical Spectra Approaching Quiescence, 1995, Michael R. Garcia, Paul J. Callanan, Jeffrey E. McClintock, Ping Zhao, 1996 ApJ 460 932.
- Observations of the X-ray Nova GRO J0422+32: I: Outburst and the Decay to Quiescence, 1995, P.J. Callanan, M. R. Garcia, J. E. McClintock, P. Zhao, R.A. Remillard, C. D. Bailyn, J.A. Orosz, B.A. Harmon, W.S. Paciesas, Ap.J., 441, 786.
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- X-ray Emission from 4U2129+47 (=V1727 Cyg) in Quiescence, 1994, M. R. Garcia, *Ap.J.* **435**, 407.
- X-ray Observations of the Eclipsing MSP 1957+20, 1992, A. Fruchter, J. Bookbinder, M. Garcia, *Nature*, **359**, 303.
- The Infrared Counterpart of GX13+1, M. R. Garcia, J. Grindlay, C. Bailyn, J. Pipher, M. Shure, A.J. **103** 1325, 1992
- On the Nature of the Symbiotic Star CI Cygni, S. Kenyon, N. Oliverson, J. Mikolajewska,

- M. Mikolajewski, R. Stencel, M. Garcia, and C. Anderson, 1991, *AJ* 101, 637.
- Does Tidal Capture Produce Cataclysmic Variables?, Charles D. Bailyn, Jonathan E. Grindlay, and Michael R. Garcia, 1990, *Ap. J. Lett.* **357**, L35.
- X-ray Burster is Theory Buster, Michael Garcia, 1990, *Nature News and Views*, **347**, 513.
- Four X-ray Selected Cataclysmic Variables in the Galactic Plane, P. Hertz, C. Bailyn, J. Grindlay, M. Garcia, H. Cohn, and P. Lugger, 1990, *Ap. J.* **364**, 251-258.
- When Seven's a Crowd, Charles Bailyn and Michael Garcia, 1990, *Nature News and Views*, **343** 120.
- Is 4U2129+47 (= V1727 Cygnus) a Triple System?, M.R. Garcia, C.D. Bailyn, J.E. Grindlay, and L.A. Molnar, 1989, *Ap.J. Letters* **341**, L75.
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- Spectroscopic Orbits of Symbiotics Stars, II. TX Canum Venaticorum, S. J. Kenyon and M. R. García, 1988 *Astron. J.*, **97**, 194.
- SAS 3 and Einstein Observations of the 11 Minute Orbital Period of the Globular Cluster X-ray Source 4U1820-30, E. H. Morgan, R. A. Remillard, and M. R. García, 1988, *Ap.J.*, **324**, 851.
- Simultaneous X-ray and Radio Observations of GX13+1, García, M. R., Molnar, L.A., Grindlay, J.E., Stella, L., White, N. E., and Seaquist, E.A, 1988, *Ap.J.*, **328**, 552.
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- Development of the EXITE detector: A new Imaging Detector for 20-300 keV Astronomy, García, M.R., Grindlay, J.E., Burg, R.I., Murray, S.S., Flanagan, J.W., 1986, *IEEE Transactions on Nuclear Science*, **33**, 735
- The Energetic X-ray Imaging Telescope Experiment (EXITE), Grindlay, J.E., García, M.R., Burg, R.I., and Murray, S.S., 1986, *IEEE Transactions on Nuclear Science*, **33**, 750
- Spectroscopic Orbits of Symbiotic Stars: Preliminary Results, García, M.R., 1986, *Astr. J.*, **91**, 1400
- Spectroscopic Orbits of Symbiotic Stars, I. The Recurrent Nova T Coronae Borealis, Kenyon, S.S., and García, M.R., 1986, *Astr. J.*, **91**, 125
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W., Schwartz, D.A., Tonry, J., 1980, *Ap.J. (Letters)*, **240**, L107

Published Conference Proceedings

- The Constellation-X Mission: Science Overview and Mission Concept, M.R. Garcia, H. Tananbaum, J. Bookbinder, N. White, R. Petre, K. Weaver, 2004, presented at 'Space 2004', AIAA, San Diego, CA
- "The Next Generation of X-ray Observatories", proceedings of COSPAR 2002, Houston TX, published in *Advances in Space Research*, 2004, ed. M. R. Garcia
- Two Years of the X-ray Sky in M31, Kong, Garcia, Primini, DiStefano, Murray 2002, to be published in "New Visions of the X-ray Universe in the XMM-Newton and Chandra Era", astro-ph/0202065
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- “The NEXT Nearest Black Holes: Chandra and HST Observations of M31”, University of Southampton Colloquium, Southampton England, July 7 2005.

“The NEXT Nearest Black Holes: Chandra and HST Observations of M31”, Leicester University Colloquim, Leicester England, July 8 2005.

“Latest Results from NASA: Chandra X-ray Observatory”, Talk at National Science Teachers Association meeting, Dallas TX, April 1 2004.

“Smithsonian Science Day: Searching for Black Holes”, Talk at National Science Teachers Association meeting, Dallas TX, April 1 2004.

“The NEXT Nearest Black Holes: Chandra and HST Observations of M31”, Open University Colloquim, Milton Keynes England, Dec 21 2004.

“SAO Involvement in the Constellation X-ray Mission”, presentation to CFA Visiting Committee, June 21 2004

“SAO High Energy Division Activities”, presentation to CFA Visiting Committee, June 21 2004

“Constellation-X Update”, New England Regional Quasar Meeting, Boston College, May 26 2004

Sept 17 2003, “Resolved Jets and Long Period Black Hole X-ray Novae”, talk at Four Years of Science with Chandra, MSFC, Alabama.

Feb 24 2003, “The Nearest Black Holes”, Colloquim at NMSU (Las Cruces) Astronomy Department.

Apr 26 2002, “Chandra Synoptic Observations of M31 (aka The Next Nearest Black Holes”, MIT/CSR lunch talk.

Apr 13 2002, “Chandra Synoptic Observations of M31”, AAS/HEAD meeting talk (Session X.11)

Feb 13 2002, “Chandra Observations of Very BLACK Black Holes”, U Mass Lowell Physics Department Colloquim.

Oct 11 2001, “Chandra Observations of Very BLACK Black Holes”, Tufts University Physics Colloquim.

Sept 6 2001, “Black Hole Transients and Nucleus of M31”, at ‘Two Years of Science with Chandra’, Washington DC, Invited Talk.

July 30 2001, “New Evidence for Black Hole Event Horizons from Chandra”, Open University Astronomy Seminar

July 19 2001, “New Evidence for Black Hole Event Horizons from Chandra”, Bristol University Astronomy/Physics Lunch Talk

July 17 2001, “New Evidence for Black Hole Event Horizons from Chandra”, Southampton University Astronomy Seminar

July 12 2001, “New Evidence for Black Hole Event Horizons from Chandra”, Leicester University Astronomy/Physics Seminar

July 10 2001, “New Evidence for Black Hole Event Horizons from Chandra”, St. Andrews University Astronomy/Physics Lunch Talk

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Mar 28 2001, “The Darkest Black Holes”, SAO/HEAD Lunch Talk

Mar 19 2001, “The Nearest Black Holes”, GSFC/LHEA Colloquim

Jan 2001, “New Evidence from Chandra for Event Horizons Surrounding Black Holes”, AAS Press Conference, chandra.harvard.edu/press/01_releases/press_011101.html. Appeared on NYT from page (Jan 12, 2001), on BBC World Service news (Jan 12, 2001), and on BBC ‘Science in Action’ weekly radio show (Jan 15, 2001)

August 2000, “Chandra Imaging of M31”, M.R. Garcia S.S. Murray, F.A. Primini, W.R. Forman, C. Jones 2000, at IAUS 205 ”Galaxies at the Highest Angular Resolution”, Invited Talk

Jan 2000, “The Cool Nucleus of M31”, AAS Press Conference on Chandra First Results, http://chandra.harvard.edu/press/00_releases/press_011400m31.html

January 2000, American Association of Physics Teachers, “New Results from Chandra: A ‘Local’ View”

October 1997, Irish Astronomical Society, “X-ray Astronomy with AXAF”

May 1993, Swathmore Large Astronomical Databases: “The Einstein CD-ROM Archive”, Invited Talk

August 1994, SIGCAT 94 Federal Showcase: “The Einstein CD-ROM Archive”

September 1989, Bologna X-ray Astronomy Symposium: “Is 4U2129+47 a Triple System?”

Popular Articles and Talks

“Meet the Observers”, an interactive travelling display produced by SAO, premiere at Boston Museum of Science Sept 2002

Nov 2001, Portable Planetarium Show “The Reasons for the Seasons” Penn Brook Grade 4

Oct 1999 - Present, “Project ASTRO” at Newbury Elementary School 3rd Grade, once/month

Dec 1998, Portable Planetarium Show for Perley Grade 1

Summer 1998, CfA Public Night Lecture, “Black Holes and Event Horizons”

February 1997, Boston Amateur Telescope Makers, “Black Holes and Event Horizons”

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