

VITA

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Present position:

Senior Level Federal employee at the Smithsonian Astrophysical Observatory

Personal:

Place of Birth: Palermo, Italy
American Citizen

Education:

University of Palermo (Italy), Physics Doctorate (1973)

Positions Held:

1973-1974 Scientist, American Science and Engineering, Inc.
1975-1991 Astrophysicist, Smithsonian Astrophysical Observatory
1975-1977 Fellowship of the Italian Ministry of Education
1977-Present Associate, Harvard College Observatory
1991-1997 Astrophysicist (Federal), Smithsonian Astrophysical Observatory
1997-Present Senior Astrophysicist (Federal, Senior Service), Smithsonian Astrophysical Observatory

Professional Appointments:

1973-1975 Scientist, UHURU (SAS-1)
1976-1977 Scientist, HEAO-1/A-3
1978-1980 Scientist, Einstein Observatory (HEAO-2) Guest Observer Program
1981-1987 Senior Scientist, Einstein Observatory Data Processing System
1987-1991 Project Scientist, Einstein Observatory
1991- Present Data System Division Head, Chandra (AXAF) Science Center

Selection Committees:

1989 Member of the Selection Committee for the Executive Committee of the High Energy Astrophysics Division of the AAS
1991 Member of the Hubble fellowship selection committee
1992 Chair of the 'galaxies and ISM' selection panel of NASA Long Term proposals
1992 Member of HST TAC
1993-1995 Member of CfA fellowship committee
2000 - External Referee for the Italian proposal selection
2003 Hubble Time Allocation Committee Panel Chair
2003- Member of the SAO Federal Scientist Appointment Committee (FSAC)
2004- Member of the SI Seidell review committee

2008 - Chair of SI Seidell review committee
 2007 HST TAC member
 2009 Member of the Wolbach Head Librarian Selection Committee
 2010 Chair, Student Prize Committee, Aspen Winter Workshop on BHs
 2010 - Member, AAAS Electorate Nominating Committee, Section on Astronomy
 2011 - Member of the Admission Committee of the Aspen Center for Physics

Advisory and Planning Committees:

1986-1989 Member of the Space Science Board Committee on Data Management and Computation (CODMAC)
 1987 Panel Member, NASA Astrophysics Data Systems Workshop
 1988-1991 SAO representative in the Einstein Users' Committee
 1988-1989 Member of the Extreme Ultraviolet Explorer (EUVE) Software Review Board
 1989-1990 Member of the Executive Committee of the High Energy Astrophysics Division of the AAS
 1991-1994 Chair of the Hubble Space Telescope DADS Users' Committee and member of the NASA STARView Review Board
 1992-1995 Member of the HEAMOWG NASA advisory committee
 1993 Member of NAS Archival Study Panel
 1995-1996 Member of CfA PROC
 1997- Member of the NASA SSDS Technical Working Group
 1997- Member of the ADCCC (Astrophysics Data Centers Coordination Council)
 2000-2001 Chair of the ADCCC
 2001- Consultative member of the NASA NVO Science Definition Team
 2001- Member of the NASA ADEC
 2001-2003 Member of the European AVO Science Working Group
 2003-2007 Chair of the CfA Gender Equity Committee
 2004 Member of the Smithsonian Institution (SI) Strategic Planning Taskforce for Collections in science units
 2005 Member of the SI Interagency Working Group on Scientific Collections
 2006- SI representative in the National Science and Technology Council (NSTC) Interagency Working Group on Digital Data (IWGDD)
 2007 Member of the Vanderbilt U. Site Visit Committee of the APS Committee on the Status of Women in Physics
 2007-2008 Chair of the INAF (Italian National Institute for Astrophysics) Visiting Committee for the Sicilian Observatories
 2008 - Member of the Smithsonian Institution Digitization Strategic Planning Committee
 2008 - Member of the NVO Executive Committee
 2008 - CfA postocs mentor
 2009 - Member of the VAO (Virtual Astrophysical Observatory) Exec
 2009 - Chair of the VAO Science Council
 2009 - Member of the IVOA (International Virtual Observatory Alliance) Exec
 2009 - Member of the IVOA Science Priorities Committee
 2009- Member of the SI Digitization Program Advisory Committee (DPAC) and of the action team on SI Digitization Policy
 2009 - 2010 Member of the CfA Library Committee

- 2011- Chair of the CfA Library Committee
- 2011- Elected to a five-year General Member of the Aspen Center for Physics (ACP)

Responsibility for Scientific Conferences:

- 1987 Participant in the “Aspen Workshop on Galaxies”(also 1991 and 1993)
- 1988 Member of local Organizing Committee for the Workshop “Einstein to AXAF”
- 1988 Member of the Scientific Organizing Committee for the Erice Workshop “Windows on Galaxies”
- 1989-1990 Co-Director of the Erice Workshop “Windows on Galaxies”
- 1995 Member of the Scientific Organizing Committee for the Wurzburg Conference on X-ray Astronomy
- 1997 Member of the Scientific Organizing Committee for ‘The non-sleeping universe’ conference (Porto, Portugal, Nov 1997)
- 1998 Organized and hosted at SAO HEADCCC meeting
- 1999 Science Organizing Committee of the Plasma 99 Conference (Mexico)
- 2000 SOC of National Virtual Observatory Conference (Caltech, June 2000)
- 2000 Member of the International Advisory Committee for the symposium ‘New Century of X-ray Astronomy’ (Japan, March 2001)
- 2001-2 Co-organizer of Aspen summer workshop on X-ray source populations in galaxies
- 2001-2 SOC of the ESO Virtual Observatory meeting, June 2002, Garching
- 2002 Organized HEADCC meeting in Cambridge, MA
- 2003-2005 Co-chair of the SOC for the IAU Symposium 230, ‘Populations of high energy sources in galaxies’, Dublin Ireland, Summer 2005
- 2004- Member of the SOC for the ‘X-ray Universe 2005 Symposium’, El Escorial, Spain, September 2005
- 2005-2006 Co-chair of the SOC for the COSPAR workshop ‘Challenges in High Resolution Space Astronomy: Astrophysics, Technology and Data’ to take place in the 36th COSPAR Assembly, Beijing, China, July 2006
- 2005-2006 Member of the SOC for the 2006 Prague IAU GA-2006 special session ‘The Virtual Observatory in Action’
- 2006 Member of SOC for the 2006 Prague IAU Special Session on Data Management
- 2006-2007 Member of SOC for the conference "X-ray surveys: Evolution of accretion, star-formation and large scale structure" to be held in Rhodes, Greece, Summer 2007
- 2008 Member of the SOC for the 2009 IAU Joint Discussion “Hot Interstellar Matter in Elliptical Galaxies”
- 2010 Member of the SOC for the Astroinformatics 2010 Conference (CalTech, Jun 2010)
- 2011 Member of the SOC for the Astroinformatics 2011 Conference (Sorrento, Sep. 2010)
- 2011 Principal organizer of workshop to take place in the Aspen Center for Physics In Summer 2012 ‘Physical processes of feedback in galaxies’.

Honors and Awards:

- 1987 Invited to write a review on “X-ray s from Normal Galaxies” for Volume 27 of the Annual Review of Astronomy and Astrophysics (1989)
- 1992 Invited to write entry on X-ray emission from galaxies for the ‘Reference Encyclopedia of Astronomy and Astrophysics’, S.P. Maran ed., (New York: Van Nostrand Reinhold)
- 1995 Invited speaker at the Pittsburgh AAS meeting
- 1999 Invited senior author of chapter on space observations of galaxies for the book ‘The century of space science’ (Kluwer).
- 2000 NASA Group Achievement Award
- 2000 NASA MSFC Director’s Commendation
- 2001 NASA MSFC Group Achievement Award
- 2002 Included in ISI/Thomson Scientific, highly cited researchers database
- 2004 Invited to write a review on ‘X-ray populations in galaxies’ for ARAA
- 2005 Invited to write a Perspective on ULXs for Science
- 2010 NASA Public Service Group Achievement Award (Chandra Source Catalog)

Editorial Work:

- 1989-1990 Co-editor of the proceedings of the Erice Workshop “Windows on Galaxies”
- 1989-1991 Editor of the HEAO Newsletter
- 2005-2006 Co-editor of the proceedings of the IAU Sump. 230 “Populations of High Energy Sources in Galaxies”

Refereeing Activities:

NSF proposals and reviews

Papers: ApJ, ApJ Letters, AJ, A&A, MNRAS, PASJ

Tenure Application: Responded to requests for assessments

Research proposals to the Italian government agency

Since 2003 referee for the Italian CIVR (Comitato di Indirizzo per la Valutazione della Ricerca)

In 2006 appointed external member of the Doctoral Thesis Committee of Paola Mucciarelli (graduate student at the University of Padova, Italy).

Educational Activities:

Student Supervision:

- 1991 A. Malizia, Bologna (Visiting Student)
- 1991 D. Fusilli, Bologna (Visiting Student)
- 1992 A. Vaiana, Palermo (Visiting Student)
- 1992-1993 S. Pellegrini, Bologna (CfA Predoc)
- 1992-1993 Y. Ikebe, Tokyo (Visiting Student)
- 1994-1995 P. Ciliegi, Milano (CfA Predoc)
- 1994-1995 F. Bocchino, Palermo (Visiting Student)
- 1995-1996 A. Shapley, Harvard (Junior research paper)
- 1996-1997 A. Shapley, Harvard (Senior thesis). Alice Shapley was awarded the Goldberg prize for best Astronomy thesis. She next went to Caltech for her PhD.
- 1999-2002 V. LaParola, Palermo (Ph. D. thesis)
- 1999-2002 M. Paolillo, Palermo (Ph. D. thesis)

2001-summer P. Humphrey, Birmingham U., UK (research project)
2005-2006 R. Fu (Harvard undergraduate)
2007-2008 Sarah Blake (Southampton University Master Thesis)
2008-2009 Lindley Lentati (Southampton University Master Thesis)
2009-2010 Alex Richings (Southampton University Master Thesis)

Research Assistants Now Professional Astronomers:

1992-1994 C. Fassnacht (then at Caltech)
1994 K. Rhode (then at Wesleyan U.)

Postdoc Advised:

G. Trinchieri, D.-W. Kim, P. Eskridge, G. Mackie, A. Zezas, N. Brassington, J. Wang, B. Luo, A. Paggi, R. D'Abrusco

Lecturing & Outreach:

Harvard Astronomy junior seminar speaker
Harvard Astronomy guest lecturer
Harvard Astronomy graduate seminar speaker
Presentation on Solar System at Cambridge Ellis Pre-School (1994)
Presentation on Astronomy at Cambridge Montessori School (1996, 1997)
Organized Chandra presentation at the Park School, Brookline (Mass) (2002)
Presentation at Harvard conference on Advancing Minorities and Women in Science, Engineering, and Mathematics (2003)
Several presentations to visiting groups at CfA (potential donors; congressional delegations) on both science topics and Virtual Observatory activities at CfA.
Public lecture on colliding galaxies at IUCAA, Pune, India (2005)
CfA open night lecture on the *Chandra* X-ray Observatory (2006)
Herschel Visitor at STScI (2008)
Presenter at the Galileo Symposium, sponsored by the Italian Consulate of Boston (2009)
Presenter with Ramesh Narayan at the Aspen Physics Café' (Feb 17th 2010)
Lecturer at the XXI Canary Islands Winter School of Astrophysics on 'Accretion Processes in Astrophysics'(2009) - 5 1hr lectures on XRB populations
The Chandra X-ray Observatory', public talk given as part of the Chandrasekhar centenary events in Chennai, Delhi and Pune (India; Jan 2011)
'High Resolution Studies of Galaxies', lecture at the Chandra X-ray School (July 2011).

Professional Activities (Programmatic):

Software Development and Science Operations

In support of the *Uburu*, *HEAO-1* and *Einstein* missions

Guest Observer / User Support

Einstein (1978-1980): Worked under Fred Seward in all phases of GO support, including proposal receipt and feasibility, supporting peer review process, assisting GOs at SAO.

Einstein (1989-1981): Created and edited (with M. Elvis) "The HEAO Newsletter"; organized 'Einstein to AXAF' Conference.

Science Management Activities

Einstein (HEAO-2) Data Processing (1981-1987): Initiated standard procedure for processing, software problem cycle, inventory control; supervised team of ~12 data processing aides including personnel actions, hiring and dismissals.

Einstein Project Management (1987-1991): As Project Scientist, continued to supervise data processing and archival activities, including on-line access to data and data distribution on CD ROMs (these activities were at the forefront in Astronomy at the time); coordinated the work of other scientists working in the project; responsible for 21 people between operation personnel and scientists; oversaw budget preparation; discussed budget with NASA HQ; represented the *Einstein* Project at the *Einstein* Users' committee meetings; closely involved in the preparation of the IPC Slew Survey (1988-1991) catalog; supported the preparation of the *Einstein* Catalog.

Einstein Contract Renewal (1984): Led and co-authored five year *Einstein* contract proposal for 1984-1989, successfully extending the program life with level funding and leading to the creation of innovative products.

AXAF (1991-1999): ASC (AXAF Science Center) Data Systems Division Head. The ASC DSD consisted of 5 groups (Architecture; H/W & System; S/W; Test & CM; Operations); FTEs reaching at launch ~80 engineers, programmers, scientists, and support personnel. Reported to the ASC Director. Was responsible for the management of the Division, and inter-group coordination; responsible for interaction with the Science Division and the rest of the ASC. Led the ASC DSD through successful NASA reviews (PDR, CDR), and met NASA milestones for the initial deliveries of S/W. Coordinated DS support for the XRCF pre-flight calibration effort at Marshall Space Flight Center. Coordinated the preparation of S/W to support flight Science Operations of AXAF, and AXAF data reduction and analysis. Coordinated the understanding of the role and operation of the DSD during the AXAF flight.

Chandra (1999-Present; *AXAF* was renamed *Chandra* after launch): *Chandra* X-ray Center Data System Division (CDS) Head. Set-up and led data processing operations during the flight validation of *Chandra*, managing round-the-clock operations of a multi-discipline team including scientists, software engineers and data specialists. Continues activities focusing on flight operations: data receipt and processing, archival, and distribution to users; development of software for scientific analysis of the *Chandra* data (CIAO); providing general support (system and h/w, archive, software and operational) to the *Chandra* X-ray Center and mission. Re-designed the CDS to support flight data operations into the following groups: H/W & System, S/W, Archive, Data Processing; software and system test were reallocated and managed within these groups, with assistance from the Science Division. Over 2M lines of codes have been developed, tested, maintained, documented, and are used operationally; this software is developed following a ‘spiral’ model that involves close interactions between scientists and engineers, supported by formal and informal reviews; testing is structured in ‘unit’, ‘integration’, and ‘operational’ phases for each software release, and is performed by the developers, scientists, and operational groups involved; typically 1-2 major releases are supported annually, and as needed mini-releases to support satellite operations. Procedures were developed and are maintained to manage operations within groups and between groups, including formal ECR (Engineering Change Control) procedures for changes affecting group interfaces. Data are typically processed, verified and data products ingested in the archive and distributed to users within 1 day from receipt; three major reprocessing of the entire data archive have been performed so far, to take advantage of improved calibrations and software. Initiated activities and supported reviews of the *Chandra* Source Catalog, a major data mining efforts including all the public imaging data, which is now at the second public release. Implemented the development of databases and user interfaces to give users visibility of the state of their data and data processing, including issue resolution (if any).

Virtual Observatory (2000-Present): lead of Harvard-Smithsonian CfA NVO effort, resulting in a successful mid-size NSF grant, and in participation in the successful multi-institution NSF large proposal effort. Co-PI of NSF VAO proposal (2008, submitted; 2010 awarded). Chair of the VAO Science Council. Member of the IVOA Exec.

Gen-X (2004 -2010): co-lead of the science team of this NASA-approved vision mission study for a large-area (~100 sqm), high-resolution (~0.1 arcsec) X-ray telescope. This proposal was based on the original idea by Elvis & Fabbiano (1996).

Grants and Contracts:

1979	Guest Observer, IUE, Principal Investigator (dwarf novae in X-rays and UV)
1983-1984	Guest Observer, IUE (quasar spectra)
1985-1986	Guest Investigator, IRAS (AGN spectra)
1987-1988	IRAS SADAP, Principal Investigator (X-ray emission and star formation in spirals)
1988-1989	IRAS ADP, Principal Investigator (hot and cold ISM of early-type galaxies)
1988-1990	Smithsonian Institution Scholarly Studies Program, Principal Investigator (a catalog of X-ray observations of galaxies)
1989-1993	Guest Observer, <i>Ginga</i> , Principal Investigator (hard X-ray spectra of galaxies)
1989-1990	ADP, Co-Investigator (Einstein X-ray spectra of galaxies)
1989-1990	ADP, Co-Investigator (Einstein Slew Survey)
1990-1993	HST, Principal Investigator (black holes in elliptical galaxies)

1990-1991	ROSAT, Principal Investigator and Co-investigator of many successful proposals. Key personnel in ASC contract awarded to SAO. Participated in writing the proposal and made oral presentation.
1991-1996	NASA Long-Term Program, Principal Investigator (\$ 860K)
1994-	ASCA PI and Co-I
1995	HST Co-I (study of cooling-flow galaxies)
1996	SAX Co-I
1996	ADP Co-I (ROSAT archival studies)
2000	XMM PI (2 proposals: observation of The Antennae and of the Sombrero galaxies) and Co-I of 3 more successful proposals
2000	Chandra PI (Observations of Low-Luminosity AGN in E galaxy) and Co-I of 4 more successful proposals
2001	Chandra PI (Large program to observe Antennae galaxies)
2001	NSF NVO proposals (PI and CfA Coordinator; \$ 900K total)
2002 -	Continues to support two post-docs on successful Chandra and XMM grants
2004 -	Co-I of the Gen-X NASA vision mission study
2005	PI of 'A Chandra legacy program: deep study of LMXB populations', 770 ks observations awarded
2005	PI of Spitzer program to observe quiescent super-massive black holes
2005	Co-I of many successful Chandra and HST proposals
2007	PI of Chandra program to observe the nucleus-galaxy interaction in NGC4151 (250 ks awarded); co-I of several successful Chandra and XMM proposals
2009	PI of two awarded Chandra proposals (~\$110K)
2010	PI of four awarded Chandra/Hubble proposals (~\$230K) and co-I of a large program
2010	PI of CfA VAO sub-award (5yr program; total value approx. ~\$3M)

Professional Societies:

International Astronomical Union
 American Astronomical Society
 High Energy Astrophysics Division of AAS
 American Association for the Advancement of Science

General Fields of Investigation:

Normal galaxies and their different X-ray emission components; XRB populations; the hot ISM and mass measurements of early-type galaxies; the connection between galaxy environment and nuclear activity. Optical, IR, UV, and radio observations are obtained to supplement the X-ray data. Galaxies are key objects for the study of cosmology, the life cycle of matter, and stellar evolution. X-ray observations have given us a new key band for understanding these building blocks of the Universe, with implications ranging from the study of extreme physical situations, such as can be found in the proximity of Black Holes, or near the surface of neutron stars; to the interaction of galaxies and their environment; to the measure of parameters of fundamental cosmological importance.

Publications:

190 refereed papers including reviews (from ADS, with 10226 citations; h index = 56);
 352 non-refereed papers.

Co-author of Smithsonian Institution's 'Digitization Strategic Plan' and of the IWGDD report 'Harnessing the power of Digital Data for Science and Society'.

Talks:

1990-91: colloquia given at Univ.s of Bologna and Palermo, Italy, and Iowa State. Invited review talk given at the Nagoya X-ray meeting (Ap. 91).

1991-92: colloquia given at Universities of Bologna and Palermo (Italy), and at the Scuola Normale Superiore in Pisa (Italy). Invited review talk given at the Accademia dei Lincei (Roma, Italy; in Ap. 92); at workshops (Elba, and Palermo, Italy; summer 92); and at COSPAR meeting in Washington DC.

1992-93: invited review talks at the Accademia dei Lincei, Aspen workshop on the ISM, and HST workshop on halos. Invited to give colloquia at MIT, Univ. of Wisconsin, and Univ. of Michigan.

1993-94: invited review talks at the Tokyo ASC symposium (March 94), and ISM "George Field" symposium at Elba (June 1994); colloquia at Princeton Plasma Lab., Univ. of Birmingham U.K., University of Leicester U.K.. Talk at minisymposium on galaxy formation at the XVII Texas Symposium (Dec 94). Harvard Astronomy junior seminar speaker.

1994-95: CfA colloquium speaker (March 30); MIT colloquium speaker (April 25); invited review talks at the Mexico conference on elliptical galaxies (March), Heidelberg IAU Symp. on early-type galaxies (June), AAS Pittsburgh meeting (June), HST workshop on LINERs (September), Wurzburg meeting on X-ray Astronomy (September); Harvard Astronomy junior seminar speaker; Harvard Astronomy graduate seminar speaker.

1995-96: Carnegie (DC) colloquium speaker (Nov. 1); invited review talk on X-ray properties of galaxies at the San Diego HEAD meeting (May); invited speaker the Madison AAS workshop on the ISM (June); gave contributed talk on AXAF spectroscopy at Shanghai IAU Symp. (June); CfA Summer Colloquium speaker (Aug.); Harvard Astronomy junior seminar speaker.

1996-97: Contributed talk at the HTXS meeting (Cambridge MA, Oct.96); invited review talk on the X-ray properties of E and S0 galaxies at the Accademia dei Lincei (Rome, Italy, Nov); colloquium speaker at the Univ. of Bologna (Nov.); invited talk on multiwavelength correlations in Spiral galaxies at the Volcano Workshop (Italy, May). Also a talk on future X-ray mission given at same meeting; invited review talk on Super-Eddington X-ray Sources in Galaxies at the IAU Symp. 188 (Kyoto, Japan, Aug.97).

1997-98: Invited talk on AXAF at the annual meeting of the Societa' Astronomica Italiana (Palermo, Italy, April '98); will present paper at the upcoming STScI Workshop on galaxy bulges (Oct.'98); invited speaker at the Tokyo 1999 ASCA meeting.

1998-99: Invited talks on future X-ray telescopes to study galaxies at the XEUS ESA workshop in July 99 (Norwijck, Netherlands) and at the Santorini 99 conference (Sep., Greece)

1999-00: Invited talks at the Mexico City Workshop on Astrophysical Plasmas (Dec.) and the Sonoma workshop on future NASA missions (Dec.), as well as the follow-up Aspen Workshop (Feb 00). Invited talks on Chandra results and Chandra results on galaxies at the Volcano workshop in May 2000 (Italy), Cospar 2000 in Poland (July 2000) and X-ray Astronomy 2000 (Palermo, Italy, Sep. 2000). Gave contributed talk on Chandra results on galaxies at the IAU Symp. 205 (Manchester, UK, Aug. 2000). Colloquia at Osservatorio di Brera (Milano, Italy), Osservatorio di Arcetri (Florence, Italy), and Osservatorio di Palermo (Italy).

2000-01: Colloquium speaker at MIT and Penn State; attended NVO Summer Workshop in Aspen; gave invited talks at the Yokohama (Japan) meeting on future X-ray observatories, at the Vulcano (Italy) meeting on galaxies and cluster evolution, and in the galaxy mergers session of the Pasadena (June) AAS meeting; contributed talk at the San Diego (Jan) AAS meeting.

2001-02: Colloquium speaker joint MPE-ESO colloquium (Garching, Germany; Jan 2002); talk on interacting galaxies at Johns-Hopkins/STScI (Baltimore; Feb. 2002); colloquium speaker at Osservatorio Astronomico di Napoli (Italy), Observatoire de Meudon (Paris, France) and Birmingham University (UK) – all in March 2002; contributed talk at Jan. AAS, and invited/workshop talk at June AAS (Albuquerque); invited talk at ESO meeting on Virtual Observatory (Garching, Germany; June 2002); talk at the Aspen workshop on X-ray populations in galaxies. Also gave talk to graduate student forum at Harvard.

2002-03: CfA-VO talk at SPIE (Hawaii; Aug. 2002); Invited talk at Santa Barbara Workshop on compact binaries (Santa Barbara; Jan. 2003); Invited talk at the meeting of the SAIT (Italian Astronomical Society; Trieste, Italy; April 2003); Invited talk at the Vulcano (Italy) meeting on High Energy Astrophysics (May 2003); Presentation on the virtual Observatory at the Special Libraries Association 2003 Conference (New York; June 2003); Invited talk at the conference “From First Light to the Milky Way” (Zurich; Aug. 2003); Invited talk at the “4 Years of Chandra Observations” symposium (Huntsville; Sept. 2003).

2003-04: Chandra observations of quiescent supermassive black holes (Aspen workshop on black holes); X-ray populations in galaxies (NASA GSFC colloquium); Ultra-luminous X-ray sources (COSPAR meeting, Paris, France, invited); Chandra observations of the Antennae (Edinburgh Royal Observatory, Scotland); Chandra results on the Antennae and X-ray populations (North-Western University); Chandra observations of the Antennae (Osservatorio Astrofisico Vaiana, Palermo, Italy); Chandra observations of Mergers (invited talk, Chandra workshop on galaxies); Chandra observation of Mergers (colloquium, U.Mass. Amherst).

2004-05: Colloquium speaker at CfA, at IUCAA (Pune, India), and at the Indian Institute of Astrophysics (Bangalore, India). Invited speaker at the following meetings: COSPAR colloquium on ‘Spectra and timing of X-ray binaries’ (Mumbai, India); Frascati Workshop 2005 ‘Multifrequency behaviour of High Energy Cosmic Sources (Vulcano, Italy); IAU Symposium 230, ‘Populations of high energy sources in galaxies’ (Dublin, Ireland).
Popular lecture at IUCAA (Pune, India).

2005-2006: Colloquium speaker at Yale University and at Carnegie (Pasadena). Invited talks: ‘X-ray Universe 2005 Symposium’ (El Escorial, Spain); ‘AGN and Galaxy Evolution’ (Specola Vaticana, Castel Gandolfo, Italy); 2006 AAAS special session on ‘Demography of Black Holes’ (St. Louis); HST 2006 May Symposium on Massive Stars (Baltimore); Cefalu’ (Italy) meeting ‘The multicolored landscape of compact objects and their explosive origin’; 2006 IAU (Prague) Joint Discussion on ‘Neutron Stars and Black Holes in Star Clusters’.

Invited lecturer at the 2006 school ‘Observing the X and Gamma ray Sky’ (Cargese, France).

CfA open night talk on Great Observatories in Space.

2006-2007: Invited talks: on the Chandra Source Catalog at the 2006 ADASS (Tucson); AAS Seattle (2007) on observations of LMXB populations; STScI Spring Symposium on Black holes (Baltimore), talk on Ultra-Luminous X-ray Sources; X-ray 2007 Conference (Rhodes, Greece) on X-ray source populations in early-type galaxies; Workshop on Galaxy Formation (Ringberg Castle, Germany), on quiescent supermassive black holes; Frascati Workshop 2007 Multi-frequency Behavior of High Energy Cosmic Sources (Vulcano, Italy), talk on quiescent super-massive black holes; invited to give key-note speech ‘Overview of X-ray emission from normal galaxies’ at the ESAC workshop “X-rays from Nearby Galaxies” (Spain; Sep. 2007)

2007-2008: Colloquium speaker at the Hubble STScI. Invited to give talk on the Virtual Observatory at the meeting of the Brazilian Astronomical Society (Sep. 2008). Invited to participate in Aspen Workshop (July) and Santa Barbara KTTP workshop on Globular Cluster XRBs (Jan 2009).

2008-2009: *Invited Conference Talks:* (1) XXXIV Annual Meeting of the Brazilian Astronomical Society, talk on the International VO (Passa Quatro, Brazil, Sep. 2008); (2) 'Deep high resolution observations of galaxies: from Chandra to Gen-X' at the International workshop on Astronomical X-ray Optics (Prague, Czech Republic, Dec. 2008); (3) 'GC and field LMXBs in nearby elliptical galaxies', Invited participant in the KTP program on GCs (Santa Barbara, CA, Jan 2009); (4) 'The hot ISM of early-type galaxies' review talk at the IAU JD8 (Rio de Janeiro, Brazil, Aug. 2009). *Colloquia and Seminars:* (1) University of Padova, colloquium (Nov. 2008); (2) UCLA, colloquium (Jan 2009); (3) IPAC seminar (March 2009); (4) University of Bologna, colloquium (May 2009); (5) Observatory of Palermo, colloquium (May 2009); (6) Univ. of Mass. at Amherst, colloquium (May 2009).

2009-2010: *Lecturer* at the XXI Canary Islands Winter School of Astrophysics on "Accretion Processes in Astrophysics" delivered five 60 min. lectures (Tenerife, Canary Islands, Spain; Nov. 2009);

Invited Conference Talks: 'Black hole binaries in elliptical galaxies' at "Formation and evolution of Black Holes", Aspen (Feb 2010); 'On the nature and evolution of LMXB populations: the contribution of CHANDRA' at "Frontier Objects in Astrophysics and Particle Physics", Vulcano, Italy (May 2010); 'Chandra Observations of LMXB Populations in Early-type Galaxies' at "Binary Star Evolution: Mass Loss, Accretion, and Mergers", Mykonos, Greece (Jun 2010); 'LMXB populations' at High Energy View of Accreting Objects: AGN and X-ray Binaries, Crete, Greece (Oct. 2010); 'Ultra-Luminous X-ray Sources at "Wideband X-ray Astronomy: Frontiers in Timing and Spectroscopy", Pune, India (Jan 2011); *Presenter* at SI Digi Fair 2010 (Virtual Observatory & Chandra Archive)

2010-2011: *Invited Conference Talks:* 'LMXB populations' at High Energy View of Accreting Objects: AGN and X-ray Binaries, Crete, Greece (Oct. 2010); 'Ultra-Luminous X-ray Sources' at "Wideband X-ray Astronomy: Frontiers in Timing and Spectroscopy", Pune, India (Jan 2011); Participated in the Summer 2011 Aspen Program and led session on AGN mergers (June 2011); Report on Science Council recommendations to the VAO, Astroinformatics 2011, Sorrento Italy (Sep 2011).

Colloquia and Seminars: 'Chandra Observations of Galaxies – X-raying Galaxy Evolution', ESO joint colloquium, Garching, Germany (March 2011); 'LMXB populations', MPA Garching (March 2011); 'XRB populations', colloquium, Tuebingen University, Germany (March 2011); 'Chandra Observations of Galaxies – AGN-Galaxy interactions', Colloquium, MPA Heidelberg, Germany (July 2011); 'Chandra Observations of Galaxies – AGN-Galaxy interactions', Colloquium, Osservatorio Astrofisico di Palermo, Italy (Sep 2011).

Popular Talks and Lectures: 'The Chandra X-ray Observatory', public talk given as part of the Chandrasekhar centenary events in Chennai, Delhi and Pune (India; Jan 2011); 'High Resolution Studies of Galaxies', lecture at the Chandra X-ray School (July 2011).

BIBLIOGRAPHY

Publications in Refereed Journals (not including refereed proceedings)

- 1 1976 The Long-term Intensity Behavior of Centaurus X-3 (E.J. Schreier, K. Swarz, R. Giacconi, G. Fabbiano, and J. Morin), *The Astrophysical Journal*, volume 204, pages 539-547.
- 2 1977 Further Studies of the Pulsation Period and Orbital Elements of Centaurus X-3 (G. Fabbiano and E.J. Schreier), *The Astrophysical Journal*, volume 214, pages 235-244.
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