

CURRICULUM VITÆ

(last update: April, 27th 2010)

Name: **Andrea Biviano**
Date of birth: Oct 7, 1962
Nationality: Italian
Gender: Male
Marital status: Married
Permament position: Research astronomer at INAF/Osservatorio Astronomico di Trieste

Education/Qualification

Laurea degree Oct 8, 1986
Physics, 110/110, at the University of Trieste
tutor: Prof. F. Mardirossian
co-tutor: Dr. M. Ramella
title of the thesis: *Il rapporto massa/luminosità negli ammassi di galassie*
PhD: Sep 14, 1992
Astrophysics, at University of Trieste
tutor: Prof. M. Hack
title of the thesis: *Galassie ed effetti d'ambiente*

Employment History

Jan 1, 1992 – Jul 31, 1992 research grant
International Centre for Theor. Physics, Trieste
Feb 1, 1993 – Jan 15, 1995 *Post-doc*
Institut d'Astrophysique de Paris
Jan 16, 1995 – Dec 31, 1995 *Post-doc*
Leiden Astronomical Observatory
Jan 1, 1996 – Nov 23, 1997 Research astronomer (tenure)
TeSRE Institute, Bologna
(effectively at ESA, Madrid, for the ISO project)
Nov 24, 1997 – present Research astronomer (permament position)
INAF / Osservatorio Astronomico di Trieste (INAF/OATS)

Visiting appointments

Apr 1, 2008 – Jun 30, 2008 poste rouge (invited scientist)
Institut d'Astrophysique de Paris

Memberships

Oct, 1988 – present	Member of the <i>ESO Nearby Abell Cluster Survey</i> team
Jan, 1996 – May, 1998	Member of the <i>ISO-CAM Instrument Dedicated Team</i>
Oct, 1998 – present	Member of the library commission of the Astronomical Observatory of Trieste
Dec, 1999 – Dec, 2003	Member of the <i>ISO-CAM Interactive Analysis User's Board</i>
Sep, 2000 – present	Member of the <i>International Astronomical Union</i> , commission 47 (cosmology)
Oct, 2004 – present	Chairman of the Seminars and Meetings Organization Office at the INAF/OATS
Aug, 2006 – present	Member of the Scientific Council of the INAF/OATS

Major research interests

- Clusters and groups of galaxies: structure and dynamics, masses and mass profiles, mass-to-light ratios, identification and analysis of distant clusters, evolution
- Evolution of galaxies: environmental effects and orbits within clusters; spectral energy distributions and luminosity functions in the infrared

Publications

- 79 in refereed journals (159 in total), of which 20 (resp. 47) as a 1st author, 26 (resp. 45) as a 2nd author and 8 (resp. 17) in the last three years (4/2007–4/2010)
- 8 invited contributions to conference proceedings and one contributed paper to an astronomy book
- 3097 citations of which 777 (787) for the publications as a 1st (resp. 2nd) author;
- h-index: 30; h1-index (only 1st-author papers): 15
- Referee of 35 papers in A&A, ApJ, AJ, MNRAS, SpSciRev

(source: *NASA Astrophysics Data System*.)

Invited lectures/talks

Participation to more than 60 international meetings

14 invited lectures/talks:

- Meeting: *First ISO workshop on Analytical Spectroscopy*, Madrid, 1997;
talk: "Topics in ISOCAM Spectroscopy Calibration"
- Meeting: *A New Vision of an Old Cluster: untangling Coma Berenices*, Marseille, 1997;
talk: "Our best friend, the Coma cluster"
- Meeting: *Constructing the Universe with Clusters of Galaxies*, Paris, 2000;
talk: "From Messier to Abell: 200 Years of Science with Galaxy Clusters"

- Meeting: *Tracing Cosmic Evolution with Galaxy Clusters*, Sesto, 2001; talk: “Tracing the Cluster Internal Dynamics with Member Galaxies”
- Meeting: *Outskirts of Galaxy Clusters: Intense Life in the Suburbs*, Torino, 2004; talk “Galaxies in Present-day Clusters: Evolutionary Constraints from Their Distributions and Kinematics”
- Meeting: *Mass profiles and Shapes of Cosmological Structures*, Paris, 2005; talk “Tracing the mass profiles of galaxy clusters with member galaxies”
- Meeting: *Distant Clusters of Galaxies*, Ringberg, 2005; talk “Structure of Galaxy Clusters”
- Meeting: *From Dark Halos to Light*, La Thuile, 2006; talk “Mass profiles of Galaxy Clusters from Dynamics”
- Meeting: *Tracing Cosmic Evolution with Galaxy Clusters. Six Years Later*, Sesto, 2007; talk “Cluster Density Profiles and Orbits of Galaxies from Dynamical Analysis”
- International School of Physics Enrico Fermi, *Astrophysics of Galaxy Clusters*, Varenna, 2009; 3 lectures “Galaxy systems in the optical and infrared”
- Workshop: *How to weigh clusters of galaxies*, Leiden, 2010; talk Galaxy dynamics as a probe of cluster mass

17 invited seminars at: the Trieste Astronomical Observatory (I), the SISSA/ISAS Trieste (I), the Meudon Observatory (F), the Institut d’Astrophysique de Paris (F), the Leiden Sterrewacht (NL), the TeSRE Institute, Bologna (I), the Marseille Astrophysics Laboratory (F), the Radioastronomy Institute of Bologna (I), the Milano-Brera Astronomical Observatory (I), the Birmingham University (UK), the IPAC/Caltech in Pasadena (USA), the ESAC in Madrid (E).

Conference and editorial boards

Member of the SOC, and Co-editor of the proceedings, of the meeting *Galaxy Evolution in Groups and Clusters*, JENAM Workshop, Porto, Kluwer Academic Pub., ed.: C. Lobo, M. Serote Roos, & A. Biviano

Member of the LOC of two meetings:

- *Taking ISO to the Limits: Exploring the Faintest Sources in the Infrared*, Madrid, 1997
- *Nuovi Orizzonti dell’Astrofisica Italiana*, Trieste 2003

Skills and Qualifications

Fluent in Italian (mother tongue), French, English and Spanish.
Knowledge of Linux, Unix, VMS.

Programming ability in Fortran, IDL, SuperMongo, SCILAB.

Use of astronomical software (e.g. IRAF).

Guest observer at several 4 m-class telescopes (optical band spectroscopy, IR-band photometry).

Scientific and calibration observations with the ISO satellite.

Co-I of more than 20 approved observational proposals (and PI of three of them) on Italian (TNG), European (ESO: La Silla, VLT), French (CHFT), Spanish (Roque de los Muchachos) and American (Palomar, KPNO) telescopes, as well as on space observatories (Infrared Space Observatory, Spitzer Space Telescope, GALEX).

Teaching experience

Invited lecturer at the course “Astrophysics of Galaxy Clusters” of the “Enrico Fermi School” in Varenna, July 2008, scientific directors: Prof. Alfonso Cavaliere and Prof. Yoel Rephaeli.

Member of 3 PhD committees at: the *Universiteit Leiden*, The Netherlands (candidate: T. Thomas), at the *Universidad de La Laguna*, Spain (candidate: R. Barrena), and at the *Institut d’Astrophysique de Paris*, France, (candidate: J.-C. Mauduit).

Member of 3 postdoc/grant committees at the Trieste Astronomical Observatory.

Member of the LOC of the Italian National School of Astrophysics, 8th cycle, 48th course, held in Trieste in Oct. 2006

Invited external expert at 3 Laurea committees at the Trieste University.

Seminars at the courses of cosmology, astronomy and radio-astronomy at Trieste University.

Assistant in the PhD tutorships of (in chronological order from 1996 to 2008): Christophe Adami, Rafael Barrena, Tom Thomas, Daniela Coia, Paola Popesso, Antonio Cava.

OATS grant supervisor of Giulia Rodighiero in 1999.

Outreach

Collaboration to the outreach activities of the Trieste Astronomical Observatory (1998-2010) and of the Institut d’Astrophysique de Paris (1993-1994).