

# CURRICULUM VITÆ

(last update: 24/01/2018)<sup>1</sup>

Name: **Andrea Biviano**  
Date of birth: 07/10/1962  
Nationality: Italian  
Gender: Male  
Marital status: Married  
Current position: Researcher at INAF-Osservatorio Astronomico di Trieste (INAF-OATS)

## Education/Qualification

- 08/10/1986: Laurea degree (equiv. Master equivalent) in Physics, marks: 110/110, at the University of Trieste, supervisor: Prof. F. Mardirossian, assistant supervisor: Dr. M. Ramella
- 14/09/1992: Dottorato di ricerca (PhD equivalent) in Astrophysics, at the University of Trieste, supervisor: Prof. M. Hack,
- 27/12/2013: Italian national University Habilitation to associate professor<sup>2</sup>, marks: Excellent (publications), Very Good (scientific activity), Excellent (scientific responsibility)

## Employment History

- 01/01/1992 – 31/07/1992: Visiting scientist at the International Centre for Theoretical Physics, Trieste
- 01/02/1993 – 15/01/1995: Post-doc at the Institut d'Astrophysique de Paris
- 16/01/1995 – 31/12/1995: Post-doc at the Leiden Astronomical Observatory (NL)
- 01/01/1996 – 23/11/1997: Research astronomer (tenure) at the TeSRE Institute, Bologna (effectively at ESA, Madrid, for the ISO project)
- 24/11/1997 – 30/06/2009: Research astronomer (staff) at the INAF-OATS
- 01/07/2009 – 31/07/2017: Researcher (staff) at the INAF-OATS
- 01/08/2017 – present: First researcher (staff) at the INAF-OATS

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<sup>1</sup>All dates in the format DD/MM/YYYY, or in the format Month/Year.

<sup>2</sup>My candidature for habilitation to full professor in the same year was rejected despite these marks: Very Good (publications) Very Good (scientific activity), Very Good (scientific responsibility).

## Visiting appointments

- 09/12/2002–20/12/2002 Invited Scientist (“Poste rouge”) at the Observatoire Astronomique de Marseille-Provence (F)
- 14/09/2003–27/09/2003 Invited Scientist (“Poste rouge”) at the Observatoire Astronomique de Marseille-Provence (F)
- 01/01/2007–23/01/2007: Invited Scientist at the Caltech, Pasadena, Los Angeles (CA, USA)
- 01/04/2008–30/06/2008: Invited Scientist (“Poste rouge”) at the Institut d’Astrophysique de Paris (F)
- 01/02/2010–28/02/2010: Invited Scientist at the Caltech, Pasadena, Los Angeles (CA, USA)
- 22/06/2010–21/07/2010: Invited Professor at the Université Pierre et Marie Curie, Paris (F)
- 24/06/2011–26/07/2011: Invited Scientist at the Institut d’Astrophysique de Paris (F)
- 01/02/2012–31/03/2012: Invited Scientist at the Observatoire de la Côte d’Azur, Nice (F)
- 14/01/2013–12/03/2013: Invited Scientist (“Poste rouge”) at the Institut d’Astrophysique de Paris (F)
- 07/10/2013–25/10/2013: Invited Scientist at the Institut d’Astrophysique de Paris (F)
- 19/05/2014–23/05/2014: Invited Scientist at the Excellence Cluster Universe, München (D)
- 20/06/2014–19/07/2014: Invited Professor at the Observatoire de Paris-Meudon<sup>3</sup> (F)
- 08/09/2014–21/09/2014: Invited Scientist at the Institut d’Astrophysique de Paris (F)
- 04/12/2014–12/12/2014: Invited Scientist at the Excellence Cluster Universe, München (D)
- 27/03/2015–07/04/2015: Invited Scientist at the Institut d’Astrophysique de Paris (F)
- 26/05/2015–28/05/2015. Invited Scientist at the University Observatory of München (USM, D)
- 21/07/2015–30/07/2015. Invited Scientist at the Excellence Cluster Universe, München (D)
- 08/12/2016–20/12/2016: Invited Scientist all’Institut d’Astrophysique de Paris (F)
- 16/01/2017–21/01/2017. Invited Scientist all’Excellence Cluster Universe, München (D)

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<sup>3</sup>The status of the Paris-Meudon Observatory is equivalent to that of a University.

## Responsibilities in research and administrative groups

- Oct/1988–Dec/2003: member of the ESO Nearby Abell Cluster Survey (ENACS) team
- Jan/1996–May/1998: member of the ISO-CAM Instrument Dedicated Team
- Oct/1998–present: member of the library committee of the INAF-OATS
- Dec/1999–Dec/2003: member of the ISO-CAM Interactive Analysis User’s Board
- Sep/2000–present: member of the International Astronomical Union, commission 47 (cosmology)
- Oct/2004–Dec/2010: chair of the Seminars and Meetings organization office of the INAF-OATS
- Aug/2006–Dec/2010: member of the Scientific Council of the INAF-OATS
- Aug/2011–Feb/2016: member of the Observatory Council of the INAF-OATS (Consiglio di Struttura)
- Oct/2011–present: member of the CLASH-VLT team<sup>4</sup>
- Oct/2011–present: co-chair of the Euclid OU LE3 Work Package ““Clusters of Galaxies - Implementation”<sup>5</sup>, currently composed of 84 members
- Jan/2014–present: chair of the “Cluster Dynamics” group of the GOGREEN team<sup>6</sup>, currently composed of 43 members
- Nov/2014–present: co-chair of the “Mass–Observable relation” work package of the Euclid Clusters of Galaxies Science Working Group, currently composed of 113 members
- Jan/2017–present: principal investigator of the LSST team “Clusters of galaxies as probes of cosmology, dark matter, and the evolution of cosmic structures”
- Jan/2018–present: deputy director of the INAF-OATS

## Funds responsibility

- Research Unit (RU) responsible for the approved 2010 ASI project “Star formation in galaxy superclusters with GALEX” (3500 euros for the RU)
- Research Unit (RU) responsible for the approved 2006 INAF (PRIN) project “Galaxies in clusters and groups at redshift=0.5–1” (18000 euros for the RU)
- Supervisor of the ASI-Euclid contract for the OULE3a Trieste unit (204000 euros requested for the RU for the period Aug 2015– Aug 2018)

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<sup>4</sup><https://sites.google.com/site/clashvlt/home?pli=1>

<sup>5</sup>[http://www.euclid-ec.org/?page\\_id=2625](http://www.euclid-ec.org/?page_id=2625)

<sup>6</sup><http://gogreenlp.pbworks.com/w/page/81562172/FrontPage>

## Professional skills

Fluent in Italian (mother tongue), French, English and Spanish.

Knowledge of Linux, Unix, VMS.

Programming proficiency 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.

PI of 4 approved observational proposals and Co-I of another 25 on ground-based telescopes (TNG, ESO, CFHT, Roque de los Muchachos and KPNO) as well as on space observatories (Infrared Space Observatory, Spitzer Space Telescope, GALEX, Herschel).

## Outreach

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

## Teaching and tutoring

- Lectures at the course in Cosmology, held by prof. F. Mardirossian at the Univ. of Trieste, on 19/02/1991 and 08/04/1992
- Lectures at the course in Radioastronomy, held by prof. G. Giuricin at the Univ. of Trieste, on 19/09/1991
- Lectures at the course in Astrophysics, held by prof. F. Mardirossian at the Univ. of Trieste, on 20/11/2009, 20/10/2010, 16/11/2011, 29/10/2012, 3/12/2013, 10/11/2014;
- Lectures at the course in Astronomy, held by prof. F. Mardirossian at the Univ. of Trieste, 10/11/2006, 07/11/2008;
- Invited lecturer at the International School of Physics Enrico Fermi, course on the *Astrophysics of Galaxy Clusters*, Varenna, 15–25/07/2008 (scientific directors: Prof. Alfonso Cavaliere and Prof. Yoel Rephaeli). Lectures on “Galaxy systems in the optical and infrared”
- Invited professorship at the Université Pierre et Marie Curie, Paris, 22/06–21/07/2014 (1 month)
- Invited professorship at the Observatoire de Paris-Meudon, 20/06–19/07/2014 (1 month)
- Supervisor of two PhD theses at the Univ. of Trieste: Emiliano Munari (academic years 2010–2013; PhD title on 20/03/2014), and Marianna Annunziatella (academic years 2012–2015; PhD title on 16/03/2016)

- Assistant supervisor of the PhD thesis of Christophe Adami (1998, Marseille, F), Tom Thomas (2002, Leiden, NL), Daniela Coia (2003, Dublin, IE), Rafael Barrena (2004, Canarias, E), Paola Popesso (2006, Munich, D), Antonio Cava (2007, Padova, I).
- Co-supervisor of the Laurea thesis of Emiliano Munari (2010; supervisor: Stefano Borgani; full marks cum laude) and Stefania Barsanti (2015; supervisor: Marisa Girardi; full marks cum laude) at the Univ. of Trieste
- Scientific supervisor of the research grant of Giulia Rodighiero at the INAF/Trieste Astronomical Observatory in 1999
- Scientific supervisor of the postdoc of Sam Farrens at the INAF/Trieste Astronomical Observatory (2-year contract started on 01/11/2013)
- Scientific supervisor of the postdoc of Emiliano Munari at the INAF/Trieste Astronomical Observatory (2-year contract started on 02/05/2016)

## Examination boards: degrees and positions

- Member of the committee for assigning the *Habilitation a Diriger les Recherches* to Valerie de Lapparent (2011), a pre-requisite for the job of *Directeur de Recherches*.
- Member of PhD committees at: the *Universiteit Leiden* [NL] (candidate: T. Thomas, 2002), at the *Universidad de La Laguna* [E] (candidate: R. Barrena, 2004), at the *Institut d'Astrophysique de Paris* [F], (candidate: J.-C. Mauduit, 2007), at the University of Torino [I] (candidate: A.L. Serra, 2012), at the University of Insubria, Como [I] (candidates: M.M. Civitani, V. Presotto, L.Raimondi, 2012), at the Universidad Complutense de Madrid [E] (candidate: R. Pérez Martínez, 2016), and at the University of Copenhagen [DK] (candidate: A. Skielboe, 2017)
- External referee for the PhD theses of Damien Castagné at the *Université de Toulouse* [F] (2011), and Elinor Medezinsky at the *Tel Aviv University* [IL] (2011).
- Member of 6 postdoc/grant committees at the Trieste Astronomical Observatory (1998, 2006, 2007, 2011, 2015, 2016).
- Invited external expert ('contro-relatore') on 2 Laurea (Masters) committees at the Trieste University (1998, 2001).

## Examination boards: research projects

External referee for the evaluation of research projects submitted to:

- the *United States Israel Bilateral Science Foundation* (2009)
- the *Serbian Ministry of Education and Science* (2010)

- the *Italian Ministry for the University and Research (MIUR), Scientific Independence of young Researchers program 2014* (2015)
- the *Qatar National Research Fund* (2015)
- *CFHT French time allocation committee* (2015, 2016)

## Conference committees

- Member of the SOC, and Co-editor of the proceedings, of the meeting *Galaxy Evolution in Groups and Clusters*, JENAM Workshop, Porto, 3–5 September 2002, Kluwer Academic Pub., ed.: C. Lobo, M. Serote Roos, & A. Biviano.
- Chair of the SOC of the meeting *The evolution of galaxy clusters and cluster galaxies in the epoch of large optical/IR surveys*, Sesto, 13–17 January 2014.
- Chair of the SOC of the workshop *Building the Euclid cluster survey*, Sesto, 7–11 July 2014.
- Member of the SOC of the meeting *In the Footsteps of galaxies: tracing the evolution of environmental effects*, Soverato, 7–11 September 2015.
- Member of the LOC/SOC of the *Joint OULE3/SWG Euclid Meeting on Clusters of Galaxies*, Trieste, 14–17 November 2016.
- Member of the LOC of two meetings: *Taking ISO to the Limits: Exploring the Faintest Sources in the Infrared*, Madrid, 1997, and *Nuovi Orizzonti dell’Astrofisica Italiana*, Trieste 2003. Member of the LOC of the Italian National School of Astrophysics, 8<sup>th</sup> cycle, 48<sup>th</sup> course, held in Trieste in October 2006.

## Invited talks/reviews/seminars

Participation to more than 70 international meetings and workshops.

17 invited talks or reviews.

31 invited seminars.

### Invited talks/reviews

- R1. Meeting: *A New Vision of an Old Cluster: untangling Coma Berenices*, Marseille, 17–20/06/1997; review: “Our best friend, the Coma cluster”
- T2. Meeting: *First ISO workshop on Analytical Spectroscopy*, Madrid, 6–8/10/1997; talk: “Topics in ISOCAM Spectroscopy Calibration”
- T3. Meeting: *Constructing the Universe with Clusters of Galaxies*, Paris, 4–8/07/2000; talk: “From Messier to Abell: 200 Years of Science with Galaxy Clusters”

- T4. Meeting: *Tracing Cosmic Evolution with Galaxy Clusters*, Sesto, 3–6/07/2001; talk: “Tracing the Cluster Internal Dynamics with Member Galaxies”
- T5. Meeting: *Outskirts of Galaxy Clusters: Intense Life in the Suburbs*, Torino, 12–16/03/2004; talk: “Galaxies in Present-day Clusters: Evolutionary Constraints from Their Distributions and Kinematics”
- R6. Meeting: *Mass profiles and Shapes of Cosmological Structures*, Paris, 4–9/07/2005; review: “Tracing the mass profiles of galaxy clusters with member galaxies”
- R7. Meeting: *Distant Clusters of Galaxies*, Ringberg, 24–28/10/2005; review: “Structure of Galaxy Clusters”
- T8. Meeting: *From Dark Halos to Light*, La Thuile, 12–18/03/2006; talk: “Mass profiles of Galaxy Clusters from Dynamics”
- T9. Meeting: *Tracing Cosmic Evolution with Galaxy Clusters. Six Years Later*, Sesto, 25–29/06/2007; talk: “Cluster Density Profiles and Orbits of Galaxies from Dynamical Analysis”
- T10. Symposium *Out of the Limelight*, in honour of Prof. Peter Katgert, Leiden, 18/09/2009; talk: “Structure and substructure of galaxy clusters”
- T11. Workshop: *How to weigh clusters of galaxies*, Leiden, 19–23/04/2010; talk: “Galaxy dynamics as a probe of cluster mass”
- T12. Workshop: *The origin and evolution of fossil galaxy groups*, La Laguna, 6–8/09/2010; talk: “Modelling anisotropy and mass profiles of observed spherical systems”
- T13. Workshop: *Star formation in galaxy clusters*, Nice, 6–7/06/2011; talk: “The (mid- and far-) IR luminosity function of cluster galaxies and its evolution”
- R14. Meeting: *The mass profiles of galaxy clusters from the core to the outskirts: the need for a multi-wavelength approach*, Madonna di Campiglio, 18–22/03/2013; review: “The mass profiles of galaxy clusters using galaxies as tracers”
- R15. Meeting: *Tracing Cosmic Evolution with Galaxy Clusters*, Sesto, 1–5/07/2013; review: “On the dynamical equilibrium of clusters of galaxies - clues from kinematics”
- T16. Meeting: *The Euclid Consortium Annual Meeting*, Lausanne, 8–12/06/2015; talk: “Forecasting the selection function of clusters in Euclid”
- R17. Meeting: *Galaxy Clusters Across Cosmic Time*, Aix en Provence, 10–13/07/2017; talk: “Opening Talk”

### Invited seminars

- S1. “Problemi relativi alla definizione di ammasso di galassie”, 28/11/1986, at the Astronomical Observatory of Trieste
- S2. “Dynamical mass in clusters of galaxies”, 19/12/1986, at the Astronomical Observatory of Trieste

- S3. "Evidenza di estinzione nell'ammasso di galassie di Virgo", 10/01/1990, at the University of Rome (I)
- S4. "Spiral arms and dynamical structure", 31/10/1990, at the SISSA, Trieste (I)
- S5. "Analyse dynamique des amas de galaxies", 05/05/1994, at the Institut d'Astrophysique de Paris (F)
- S6. "The Coma cluster luminosity function", 13/12/1994, at the OAMP/Laboratoire d'Astrophysique de Marseille (F)
- S7. "The Coma cluster luminosity function", 02/03/1995, at the Leiden Observatory (NL)
- S8. "ENACS3: ELG in clusters", 08/12/1995, at the Leiden Observatory (NL)
- S9. "L'amas de galaxies de Coma: Dr. Jeckill et Mr. Hyde", 14/04/1995, at the Institut d'Astrophysique de Paris (F)
- S10. "The current status of ISO-CAM", 02/07/1996, at the TeSRE institute, Bologna (I)
- S11. "Update on the status of ISO-CAM" 13/12/1996, at the TeSRE institute, Bologna (I)
- S12. "The mass profile of galaxy clusters", 27/05/2003, at the SISSA, Trieste (I)
- S13. "Le profil de masse des amas de galaxies", 17/06/2003, at the OAMP/Laboratoire d'Astrophysique de Marseille (F)
- S14. "The Orbits of Galaxies in Clusters", 12/11/2004, at the Institut d'Astrophysique de Paris (F)
- S15. "The Orbits of Galaxies in Clusters", 21/12/2004, at the Trieste Astronomical Observatory (I)
- S16. "Deconstructing Galaxy Clusters", 12/06/2006, at the INAF-Istituto di RadioAstronomia, Bologna (I)
- S17. "Deconstructing Galaxy Clusters", 21/06/2006, at the INAF-Brera Astronomical Observatory, Milano (I)
- S18. "Deconstructing Galaxy Clusters", 19/01/2007, at the California Institute of Technology, Pasadena, LA (USA)
- S19. "Cluster density profiles and galaxy orbits from kinematical analysis", 17/03/2008, at the ESAC, Madrid (E)
- S20. "The paths of glory of galaxy evolution", 18/05/2010, at the Observatoire de la Côte d'Azur, Nice (F)
- S21. "The paths of glory of galaxy evolution", 25/05/2010, at the INAF-IASF, Milano (I)
- S22. "The paths of glory of galaxy evolution", 05/07/2010, at the Observatoire de Paris-Meudon (F)



- S23. “Cluster feeding filaments are the “Paths of Glory” of galaxy evolution”, 18/11/2010, at the INAF/Trieste Astronomical Observatory (I)
- S24. “Cluster feeding filaments are the “Paths of Glory” of galaxy evolution”, 25/01/2011, at the ESO Munich (D)
- S25. “A multiwavelength view of galaxy evolution in a  $z=0.2$  supercluster”, 24/11/2011, at the INAF-Padova Astronomical Observatory (I)
- S26. “CLASH-VLT: the internal structure of galaxy clusters”, 11/03/2015, at the INAF-Trieste Astronomical Observatory (I)
- S27. “CLASH-VLT: the internal structure of galaxy clusters”, 16/03/2015, at the Wien University (A)
- S28. “CLASH-VLT: the internal structure of galaxy clusters”, 27/05/2015, at the University Observatory of Munich (USM, D)
- S29. “The dynamics of galaxy clusters from the CLASH-VLT survey”, 28/07/2015, at the Max-Planck-Institut für extraterrestrische Physik (MPE, Munich, D)
- S30. “Galaxy evolution in clusters from the CLASH-VLT survey”, 11/12/2015, at the ESAC (Madrid, E)
- S31. “The orbits of galaxies in clusters over the last 8 Gyr”, 31/03/2016, at the Tuorla Observatory (Turku University, FIN)

## Publications

- 145 publications in refereed journals, of which:
  - 126 in international journals with impact factor  $\geq 4$ : A&A, AJ, ApJ, ApJL, ApJS, JCAP, MNRAS, Sp Sci Rev
  - 39 in the last three years (36 months)
  - 26 as a 1<sup>st</sup> author<sup>7</sup>
  - 39 as a 2<sup>nd</sup> author<sup>7</sup>

Another 119 not refereed publications<sup>8</sup>.

- 8 invited contributions to conference proceedings and one contributed paper to an astronomy book
- 7138 citations of which 1298 to publications as 1<sup>st</sup> author<sup>8</sup>
- h-index: 48; h1-index (only 1<sup>st</sup>-author papers): 18

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<sup>7</sup>My position as a 1<sup>st</sup> or 2<sup>nd</sup> author always reflects my predominant rôle in the collaboration. When it coincides with the alphabetical order, this is by pure chance (in case of papers with two or three authors) or by the explicit decision of my co-authors to be listed in alphabetical order after my name.

<sup>8</sup>According to [http://adsabs.harvard.edu/abstract\\_service.html](http://adsabs.harvard.edu/abstract_service.html)

- Referee of 54 papers in A&A (22), ApJ (12), AJ (1), MNRAS (17), SpSciRev (1), EuroPhysLett (1)

## List of publications

Publications are divided in three parts.

- Refereed papers in journals with high current impact factors ( $\geq 4$ ): A&A, AJ, ApJ, ApJL, ApJS, JCAP, MNRAS, Sp Sci Rev
- Refereed papers in journals with low current impact factors ( $< 4$ ): A&AS, ApL&C, Ap&SpSci, Baltic Ast, Exp Ast, New Ast; and refereed conference proceedings
- Relevant unrefereed papers

The number of citations to each paper is indicated at the end (c=NNN) only when this number is larger than 9.

### Refereed papers in journals with high impact factors

- Rh-31. Moretti, A., Poggianti, B., Gullieuszik, M., et al. 2018, MNRAS, in press: *GASP V: Ram-pressure stripping of a ring Hoag's-like galaxy in a massive cluster*
- Rh-30. Habas, R., Fadda, D., Marleau, F., **Biviano, A.**, & Durret, F. 2018, MNRAS, in press: *Galaxy Evolution in the Cluster Abell 85: New Insights from the Dwarf Population*
- Rh-29. Old, L., Wojtak, R., Pearce, F., et al. 2018, MNRAS, 475, 853: *Galaxy Cluster Mass Reconstruction Project - III. The impact of dynamical substructure on cluster mass estimates*
- Rh-28. Annunziatella, M., Bonamigo, M., Grillo, C., et al. 2017, ApJ, 851, 81: *Mass Profile Decomposition of the Frontier Fields Cluster MACS J0416-2403: Insights on the Dark-matter Inner Profile*
- Rh-27. Caminha, G., Grillo, C., Rosati, P., et al. 2017, A&A, 607, A93: *Mass distribution in the core of MACS J1206. Robust modeling from an exceptionally large sample of central multiple images*
- Rh-26. **Biviano, A.**, Moretti, A., Paccagnella, A., et al. 2017, A&A, 607, A81: *The concentration-mass relation of clusters of galaxies from the OmegaWINGS survey*
- Rh-25. Balogh, M., Gilban, D., Muzzin, A., et al. 2017, MNRAS, 470, 4168: *Gemini Observations of Galaxies in Rich Early Environments (GOGREEN) I: survey description*
- Rh-24. Fritz, J., Moretti, A., Gullieuszik, M., et al. 2017, ApJ, 848, 132: *GASP. III. JO36: A Case of Multiple Environmental Effects at Play?*
- Rh-23. Cava, A., **Biviano, A.**, Mamon, G., et al. 2017, A&A, 606, A108: *Structural and dynamical modeling of WINGS clusters. I. The distribution of cluster galaxies of different morphological classes within regular and irregular clusters*

- Rh-22. Gullieuszik, M., Poggianti, B., Moretti, A., et al. 2017, ApJ, 846, 27: *GASP. IV. A Muse View of Extreme Ram-pressure-stripping in the Plane of the Sky: The Case of Jellyfish Galaxy JO204*
- Rh-21. Pizzuti, L., Sartoris, B., Amendola, L., et al. 2017, JCAP, 7, 23: *CLASH-VLT: constraints on  $f(R)$  gravity models with galaxy clusters using lensing and kinematic analyses*
- Rh-20. Poggianti, B., Moretti, A., Gullieuszik, M., et al. 2017, ApJ, 844, 48: *GASP. I. Gas Stripping Phenomena in Galaxies with MUSE*
- Rh-19. **Biviano, A.**, Popesso, P., Dietrich, J., et al. 2017, A&A, 602, A20: *Abell 315: reconciling cluster mass estimates from kinematics, X-ray, and lensing*
- Rh-18. Paccagnella, A., Vulcani, B., Poggianti, B., et al. 2017, ApJ, 838, 148: *OmegaWINGS: The First Complete Census of Post-starburst Galaxies in Clusters in the Local Universe*
- Rh-17. Caminha, G.B., Grillo, C., Rosati, P., et al. 2017, A&A, 600, A90: *A refined mass distribution of the cluster MACS J0416.1-2403 from a new large set of spectroscopic multiply lensed sources (c=13)*
- Rh-16. Barsanti, S., Girardi, M., **Biviano, A.**, et al. 2016, A&A, 595, A73: *Velocity segregation effects in galaxy clusters at  $0.4 \leq z \leq 1.5$*
- Rh-15. Verdugo, T., Limousin, M., Motta, V., et al. 2016, A&A, 595, A30: *Combining strong lensing and dynamics in galaxy clusters: integrating MAMPOSSt within LENSTOOL. I. Application on SL2S J02140-0535*
- Rh-14. **Biviano, A.**, van der Burg, R., Muzzin, A., et al. 2016, A&A, 594, A51: *The dynamics of  $z \sim 1$  clusters of galaxies from the GCLASS survey*
- Rh-13. Munari, E., Grillo, C., De Lucia, G., et al. 2016, ApJ, 827, L5: *Numerical Simulations Challenged on the Prediction of Massive Subhalo Abundance in Galaxy Clusters: The Case of Abell 2142*
- Rh-12. Sartoris, B., **Biviano, A.**, Fedeli, C., et al. 2016, MNRAS, 459, 1764: *Next generation cosmology: constraints from the Euclid galaxy cluster survey (c=30)*
- Rh-11. Balestra, I., Mercurio, A., Sartoris, B., et al. 2016, ApJS, 224, 33: *CLASH-VLT: Dissecting the Frontier Fields Galaxy Cluster MACS J0416.1-2403 with  $\sim 800$  Spectra of Member Galaxies (c=15)*
- Rh-10. Boldrin, M., Giocoli, C., Meneghetti, M. et al. 2016, MNRAS, 457, 2738: *Cosmology through arc statistics I: sensitivity to  $\Omega_m$  and  $\sigma_8$*
- Rh-9. Pizzuti, L., Sartoris, B., Borgani, S., et al. 2016, JCAP, 4, 23: *CLASH-VLT: testing the nature of gravity with galaxy cluster mass profiles*
- Rh-8. Caminha, G.B., Grillo, C., Rosati, P., et al. 2016, A&A, 587, A80: *CLASH-VLT: A Highly Precise Strong Lensing Model of the Galaxy Cluster RXC J2248.7-4431 (Abell S1063) and Prospects for Cosmography (c=22)*

- Rh-7. Santos, J., Balestra, I., Tozzi, P., et al. 2016, MNRAS, 456, L99: *Starbursting brightest cluster galaxy: a Herschel view of the massive cluster MACS J1931.8-2634*
- Rh-6. Erfanianfar, G., Popesso, P., Finoguenov, A., et al. 2016, MNRAS, 455, 2839: *Non-linearity and environmental dependence of the star-forming galaxies main sequence* (c=14)
- Rh-5. Annunziatella, M., Mercurio, A., **Biviano, A.**, et al. 2016, A&A, 585, A160: *CLASH-VLT: Environment-driven evolution of galaxies in the  $z=0.209$  cluster Abell 209* (c=14)
- Rh-4. Durret, F., Wakamatsu, K., Nagayama, T., et al. 2015, A&A, 583, A124: *Ophiuchus: An optical view of a very massive cluster of galaxies hidden behind the Milky Way*
- Rh-3. Popesso, P., **Biviano, A.**, Finoguenov, A., et al. 2015, A&A, 579, A132: *The role of massive halos in the star formation history of the Universe* (c=10)
- Rh-2. Girardi, M., Mercurio, A., Balestra, I., et al. 2015, A&A, 579, A4: *CLASH-VLT: Sub-structure in the galaxy cluster MACS J1206.2-0847 from kinematics of galaxy populations* (c=20)
- Rh-1. Merten, J., Meneghetti, M., Postman, M., et al. 2015, ApJ, 806, 4. *CLASH: The Concentration-Mass Relation of Galaxy Clusters* (c=94)
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- Rh1. Fasano, G., Poggianti, B., Bettoni, D., et al. 2015, MNRAS, 449, 3927: *Morphological fractions of galaxies in WINGS clusters: revisiting the morphology-density paradigm*
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- Rh5. Grillo, C., Suyu, S.H., Rosati, P., et al. 2015, ApJ, 800, 38: *CLASH-VLT: Insights on the Mass Substructures in the Frontier Fields Cluster MACS J0416.1-2403 through Accurate Strong Lens Modeling* (c=54)
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- Rh8. Meneghetti, M., Rasia, E., Vega, J., et al. 2014, ApJ, 797, 34: *The MUSIC of CLASH: Predictions on the Concentration-Mass Relation* (c=59)
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- Rh13. Grillo, C., Gobat, R., Presotto, V., et al. 2014, ApJ, 786, 11: *CLASH: Extending Galaxy Strong Lensing to Small Physical Scales with Distant Sources Highly Magnified by Galaxy Cluster Members*
- Rh14. Presotto, V., Girardi, M., Nonino, M., et al. 2014, A&A, 565, A126: *Intracluster light properties in the CLASH-VLT cluster MACS J1206.2-0847* (c=30)
- Rh15. Girardi, M., Aguerri, J.A.L., De Grandi, S., et al. 2014, A&A, 565, A115: *Fossil group origins. III. The relation between optical and X-ray luminosities* (c=15)
- Rh16. Sartoris, B., **Biviano, A.**, Rosati, P., et al. 2014, ApJ, 783, L11: *CLASH-VLT: Constraints on the Dark Matter Equation of State from Accurate Measurements of Galaxy Cluster Mass Profiles* (c=12)
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- Rh19. Medezinski, E., Umetsu, K., Nonino, M., et al. 2013, ApJ, 777, 43: *CLASH: Complete Lensing Analysis of the Largest Cosmic Lens MACS J0717.5+3745 and Surrounding Structures* (c=58)
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- Rh22. Lemze, D., Postman, M., Genel, S., et al. 2013, ApJ, 776, 91: *The Contribution of Halos with Different Mass Ratios to the Overall Growth of Cluster-sized Halos* (c=28)
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- Rh29. Popesso, P., **Biviano, A.**, Rodighiero, G., et al. 2012, A&A, 537, A58: *The evolution of the star formation activity per halo mass up to redshift  $\sim 1.6$  as seen by Herschel* (c=44)
- Rh30. Valentinuzzi, T., Poggianti, B. M., Fasano, G., et al. 2011, A&A, 536, A34: *The red-sequence of 72 WINGS local galaxy clusters* (c=24)
- Rh31. **Biviano, A.**, Fadda, D., Durret, F., Edwards, L. O. V., & Marleau, F. 2011, A&A, 532, A77: *Spitzer observations of Abell 1763. III. The infrared luminosity function in different supercluster environments* (c=24)
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- Rh36. **Biviano, A.**, & Poggianti, B. M. 2009, A&A, 501, 419: *The orbital velocity anisotropy of cluster galaxies: evolution* (c=28)
- Rh37. Braglia, F. G., Pierini, D., **Biviano, A.**, Böhringer, H. 2009, A&A, 500, 947: *Multi-wavelength study of X-ray luminous clusters at  $z \sim 0.3$ . I. Star-formation activity of cluster galaxies* (c=31)
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- Rh92. Girardi, M., **Biviano, A.**, Giuricin, G., Mardirossian, F., & Mezzetti, M. 1991, *ApJ*, 366, 393: *The luminosity-diameter relation for disk galaxies in different environments*
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- Rl1. Annunziatella, M., **Biviano, A.**, Mercurio, A., et al. 2016, in “The Universe of Digital Sky Surveys”, *Ap Sp Sci Proc* 42., p.243: *The Stellar Mass Functions of the CLASH-VLT Clusters MACS J1206-0847 and Abell 209*
- Rl2. Mercurio, A., Annunziatella, M., **Biviano, A.**, et al. 2016, in “The Universe of Digital Sky Surveys”, *Ap Sp Sci Proc* 42., p.225: *Luminosity Functions in the CLASH-VLT Cluster MACS J1206.2-0847: The Importance of Tidal Interactions*
- Rl3. **Biviano, A.**, Katgert, P., & Mazure, A. 2004, in ‘Clusters of Galaxies: Probes of Cosmological Structure and Galaxy Evolution’, *Carnegie Obs Ap Ser*. Edited by J.S. Mulchaey, A. Dressler, and A. Oemler: *The Mass Profile of Clusters from ENACS*
- Rl4. Coia, D., McBreen, B., Metcalfe, L., et al. 2004, *Baltic Ast*, 13, 638: *Luminous Infrared Galaxies in the Cluster cl 0024+1654*
- Rl5. **Biviano, A.**, & Katgert, P. 2003, *Ap&SpSci*, 285, 25: *The Orbits of Cluster Galaxy Populations as Evolutionary Constraints*

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- Rl7. Pipino, A., Matteucci, F., Borgani, S., & **Biviano, A.** 2002, New Ast, 7, 227: *SNe heating and the chemical evolution of the intra-cluster medium (c=66)*
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- Rl9. Blommaert, J. A. D. L., Metcalfe, L., Altieri, B., et al. 2000, Exp Ast, 10, 241: *The Isocam Responsivity in Orbit. Standard star photometry*
- Rl10. Katgert, P., Mazure, A., den Hartog, R., et al. 1998, A&AS, 129, 399: *The ESO Nearby Abell Cluster Survey. V. The catalogue: Contents and instructions for use (c=108)*
- Rl11. Giuricin, G., **Biviano, A.**, Mazure, A., et al. 1997, ApL&C, 36, 129: *The ESO nearby Abell cluster survey*
- Rl12. Durret, F., **Biviano, A.**, Gerbal, D., et al. 1997, ApL&C, 36, 97: *New results on the Coma cluster: revealing the primary component*
- Rl13. Lobo, C., **Biviano, A.**, Durret, F., et al. 1997, A&AS, 122, 409: *A photometric catalogue of the Coma cluster core (c=11)*
- Rl14. **Biviano, A.**, Durret, F., Gerbal, D., et al. 1996, ApL&C, 33, 223: *The Coma cluster luminosity function*
- Rl15. **Biviano, A.**, Durret, F., Gerbal, D., et al. 1996, ApL&C, 33, 187: *X-ray and Optical Wavelet Maps in the Central Region of Coma*
- Rl16. Girardi, M., Fadda, D., Giuricin, G., et al. 1996, ApL&C, 33, 163: *Galaxy Clusters: X-ray Temperature vs. Galaxy Velocity Dispersion*
- Rl17. **Biviano, A.**, Giuricin, G., Katgert, P., et al. 1996, ApL&C, 33, 157: *The ESO Nearby Abell Clusters Survey (ENACS): Velocity Dispersion Distribution for a Complete Cluster Sample*
- Rl18. **Biviano, A.**, Durret, F., Gerbal, D., et al. 1995, A&AS, 111, 265: *A catalogue of velocities in the central regions of the Coma cluster (c=21)*
- Rl19. Lobo, C., **Biviano, A.**, Durret, F., et al. 1995, ApL&C, 31, 345: *On the galaxy luminosity function in the central region of the Coma Cluster*

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- U-3. Ott, S., Abergel, A., Altieri, B., et al. 1997, in 'Astronomical Data Analysis Software and Systems VI', A.S.P. Conference Series, Vol. 125, 34: *Design and Implementation of CIA, the ISOCAM Interactive Analysis System (c=57)*

- U-2. Metcalfe, L., Altieri, B., McBreen, B., et al. 1999, in 'The Universe as Seen by ISO', ESA-SP 427, 1019: *A deep and ultra-deep ISOCAM cosmological survey through gravitationally lensing clusters of galaxies* (c=11)
- U-1. **Biviano, A.**, Metcalfe, L., Altieri, B., et al. 2000, in 'Clustering at High Redshift', ASP Conference Series, Vol. 200, 101: *An ISOCAM Survey through Gravitationally Lensing Galaxy Clusters* (c=11)
- U0. Duc, P.-A., Fadda, D., Poggianti, B., et al. 2004, in 'IAU Colloq. 195: Outskirts of Galaxy Clusters: Intense Life in the Suburbs', 347-351: *Luminous infrared starbursts in a cluster of galaxies* (c=14)
- U1. Rosati, P., Balestra, I., Grillo, C., et al. 2014, Msngr, 158, 48: *CLASH-VLT: A VIMOS Large Programme to Map the Dark Matter Mass Distribution in Galaxy Clusters and Probe Distant Lensed Galaxies* (c=31)
- U2. Sánchez-Portal, M., Cepa, J., Pintos-Castro, I., et al. 2011, in 'Highlights of Spanish Astrophysics VI, Proceedings of the IX Scientific Meeting of the Spanish Astronomical Society': *The GaLArXy Cluster Evolution survey (GLACE): introduction and first results*
- U3. Laureijs, R.; Amiaux, J.; Arduini, S., et al. 2011, arXiv:1110.3193: *Euclid Definition Study Report* (c=893)
- U4. **Biviano, A.** 2011, in the Proceedings of the International School of Physics "Enrico Fermi", Course CLXXII, eds. A. Cavaliere & Y. Rephaeli: *Astrophysics of Galaxy Clusters*, IOS Press: *Galaxy systems in the optical and infrared*, arXiv:0811.3535 (c=13) (lezioni su invito)
- U5. **Biviano, A.** 2006, in 'Mass profiles and shapes of Cosmological Structures', EAS Publications Series 20, 171-178: *Tracing the mass profiles of galaxy clusters with member galaxies.* (relazione su invito)
- U6. Boehringer, H., Braglia, F., Pierini, D., **Biviano, A.**, et al. 2006, Msngr, 123, 49: *Unveiling the Structure of Galaxy Clusters with Combined ESO-VLT WFI, and XMM-Newton Observations*
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- U13. Mazure, A., Escalera, E., Katgert, P., et al. 1991, *Msngr*, 65, 7: *A survey of nearby clusters of galaxies*

## Main research topics

- The structure and evolution of clusters and groups of galaxies
- The nature of dark matter and dark energy
- The evolution of galaxies in different environments

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<sup>9</sup>These review papers are part of the Caltech on-line Level5 library of Extragalactic Astronomy and Cosmology, <http://ned.ipac.caltech.edu/level5/index.html>