PERSONAL INFORMATION

Adriano Fontana



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Skype: AdrianoFontana

Sex Male | Date of birth 29/11/1962 | Nationality Italian

WORK EXPERIENCE Active positions

Aug 1, 2016 - now Oct , 2013 - now "Dirigente di Ricerca" (Research Director) at INAF – Osservatorio di Roma President of the LBT Corporation

WORK EXPERIENCE PREVIOUS POSITIONS

Nov, 2010 – Nov 2019 Jan 2004 – Jul 2016 Apr 1998 – Jun 1998

Jun 1995- Jul 1995 Jan 1994 – Dec 2004

Nov 1993

Professor of "Astrofisica Extragalattica" at the Rome University La Sapienza "Astronomo Associato" (Associate Astronomer) at INAF – Osservatorio di Roma

Visiting Astronomer at ESO- Garching Unpaid associate at ESO - Garching

"Ricercatore Astronomo" (Researcher) at INAF – Osservatorio di Roma Visiting Astronomer at ESO - Garching

EDUCATION AND TRAINING

2004 1994 Training course on Project Management (Profingest, Bologna)

PhD in Physics and Astrophysics – University of Rome La Sapienza

1989 Master Degree 110/110 cum laude in Physics – University of Rome La Sapienza

PERSONAL SKILLS

Mother tongue Other language(s) Italian

English (Excellent, both written and oral)

Digital competence

SELF-ASSESSMENT

Information processingCommunicationContent creationSafetyProblem solvingProficientIndependentIndependentBasicIndependent

Programming languages: Fortran, C, python

· Astronomical software: Midas, IRAF, SM

CURRENT MANAGEMENT RESPONSIBILITIES

June, 2016 - now

Head of the INAF Division for Optical-NIR astronomy

This newly established INAF Division directly supervises and manages all the Italian participations to to Optical-NIR astronomical projects from ground (mainly ESO, LBT and TNG) and space (GAIA, Euclid, CHEOPS, PLATO among the others). In this capacity, I oversee *a)* all the institutional relations with the relevant governing bodies, *b)* the development of instrumentation for all these facilities; *c)* The execution of major scientific projects with a leading Italian role. The overall budget of the Division (that does not include the ESO yearly contribution) is about 10MEuro/yr.

Oct , 2013 - now

President of the LBT Corporation

The LBT Corp. is an independent legal entity, based in Tucson (AZ, USA) that manages all the activities related to the Large Binocular Telescope. In my capacity of President, I oversee the general management of the affairs of the Corporation, with the direct responsibility of signing all the financial transactions of the Corporation, and implement all the policies and directives of the Board, in particular overseeing the activity of the Telescope Director. The overall budget of the Corporation is about 13M\$/year.

Oct , 2012 - now

Chair of LBT Board of Directors

As a Chair of the Board of Directors of the LBT Corporation, (that is different from the President) I preside at all meetings of the Board and I am responsible that all policies of the Board are carried out. My main role is here is acting as an interface with all the Board Directors and Institutional Members from MPGs, INAF and several US universities.

Oct, 2009 - now

Lead of the Italian LBT Coordination Centre

The LBT-ITA Centre manages and oversees all the activities related to the Italian participation to LBT. In particular, it organizes the call for observing time under Italian share, the execution of all observing programs in a fully-fledged service mode and the analysis of all collected data. As such I supervise a team of ~15 astronomers and remote observers.

Membership of International Project/Institution Boards

MAORY Steering Committee (2018-now) LSST Corporation Board (2018-now) WEAVE Project Board (2016-now) ASDC Board (2009-2014)

ASTRONET Executive Board (2005-2007)

PREVIOUS MANAGEMENT **RESPONSIBILITIES**

2013 - 2016

European Coordinator of the FP7 European project ASTRODEEP

I led ASTRODEEP, a collaborative project among 4 institutes (INAF, CEA, UEdin, CDS) funded for a total of 2MEuro within the FP7-SPACE framework. It is a co-ordinated and comprehensive program of algorithm/software development and testing, data reduction/release, and scientific data validation/analysis aimed at making Europe the world leader in the exploitation of the deepest multifrequency data from the major space and ground-based observatories.

2011 - 2017 Lead of the Organization Unit "MER" of the Euclid mission

The ESA mission Euclid is a major flagship of European astronomy. I have the responsibility of MER, a trans-national unit of the Ground Segment that is charged to design and develop the core of the data processing system, i.e. the part that collects data from Euclid and ground based surveys and prepares the final multiwavelength catalogue. The collaboration involves ~20 scientists and software engineers mainly from Italy, Germany and France.

2005-2007 President of the INAF Science Council

I have been President of the INAF Science Council, the first established soon after the constitution of INAF itself. I led the preparation of the first Long Term Plan of Italian Astronomy. This document presents a unified vision of the main topics in astronomy and astrophysics in the foreseeable future, and identifies the scientific and technological areas where INAF should focus its efforts during the next decade.

2005-2007 Coordinator of INAF activities in the ASI Space Data Centre

During the first period of the ASI-INAF agreement for the operations of ASDC I have acted as Coordinator of the INAF staff to perform scientific operations and to cooperate with INAF Institutes. I supervised the activities of INAF personnel, operating in support of space missions (mainly AGILE, GLAST, SWIFT, GAIA)

MANAGEMENT OF MAJOR SCIENTIFIC PROJECTS

2014-now

Principal Investigator of the ESO-VLT Large Program, "The formation and evolution of galaxies from cosmic dawn to high-noon under a magnifying GLASS'

2014-now

Executive Board of the ESO public survey VANDELS

2012-now

European coordinator of the FP7-SPACE project ASTRODEEP

2010-now

Executive Board of the HST survey CANDELS

2010-2014

Principal Investigator of the HUGS survey, based on the ESO-VLT Large Program "A complete view of

2008-2010

the first 2 billion years of galaxy formation" Principal Investigator of the ESO-VLT Large Program ESO VLT, "A deep infrared view of the early

2005-2008

Universe: exploiting the unique capabilities of HAWK-I to explore the reionization epoch" Coordinator of the GOODS-MUSIC survey

2005-now

Coordinator of the research Group of Observational Cosmology and Galaxy Evolution at the INAF -Rome Observatory, which has several leading responsibilities in projects using ESO, LBT, ALMA HST, Spitzer and other world-class instrumentation.

SCIENTIFIC ACHIEVEMENTS General description

My main research field is the study of Galaxies, AGNs, IGM and their co-evolution, primarily as as obtained from deep imaging and multiwavelength surveys with ground based and space telescopes.

I have been Principal Investigator of 3 Large Programs with ESO VLT instrumentation.

I am PI of many accepted proposals at TNG, LBT, NTT, VLT, ALMA, HST.

I led the HUGS survey, executed with Hawkl@VLT, delivering the deepest view on IR-selected galaxies ever obtained.

I am a main participant to several extragalactic surveys (K20, GOODS, CANDELS, VUDS VANDELS, Frontier Fields, among the others) executed with VLT, HST, Spitzer and other worldclass facility instruments.

I have been among the very first astronomers to use VLT, both as part of the Science Verification

Team and as one of the very first observer of the normal programs.

Publications

- I am author of about 350 scientific publications (based on ADS).
- Of these, about 250 are published in peer-reviewed journals, for a total of more than 18700 citations.
- I am first author in 13 of them, and among the first three authors in 52 of them.
- 49 papers of mine have more than 100 citations; I am among the three first authors in 14 of them.
- I am author of 3 letters to Nature, 1 to Science, and 18 to ApJL.

Impact factor

- As of 26 March 19, my impact factor h-index is 73 (based on ADS, computed on refereed papers).
- Based on a survey conducted in 2013, I am leading author in 2 of the 25 most important papers
 produced by VLT in its first 15 years (http://sciencewatch.com/articles/very-large-telescope-first-fifteen-years-discovery)

Main Results

My research activity tries to address as simple yet difficult question: how galaxies formed and evolved, especially in the first Gyrs of the Universe's life. Answering this question implies working on a number of inter-connected aspects, like:

- -High redshift galaxies, stellar mass assembly, luminosity and mass functions, galaxy morphological evolution, clustering and large scale structures, obscured AGNs and their feedback on galaxy evolution.
- Spectral evolution of galaxies and link with stellar astrophysics.
- Wide field imaging and spectroscopic surveys.
- Development of theoretical models of galaxy formation and evolution.
- Intergalactic medium at high redshift, ionization and metal content of Lyman□ forest and metal systems, connection with high redshift galaxies.
- Development of software for astronomical data processing, Data Grid.
- Development of optical/IR instrumentation at large telescopes.

My main results, which characterized my scientific activity and for which I am most known are:

- The assembly of massive galaxies at high redshift. In a number of seminal and recent papers (e.g., Fontana+2003, 04, 06, Santini 2009, 2012, Grazian+2015) I have depicted the evolution of massive galaxies at z>2; I have shown that the growth of massive galaxies occurs at fast pace in the first 2-3 Gyrs of the Universe, such that about 50% of present-day mass of massive galaxies is already assembled at z~1.5. I have also shown that red, quiescent and massive galaxies exist at all redshifts up to at least 4 (Grazian+07, Fontana+09, Grazian+15).
- The search for the highest redshift galaxies. Thanks to a combination of deep imaging surveys and spectroscopic follow-up I have progressively identified galaxies at the greatest distances ever recorded (e.g. Fontana+95, Vanzella+11 Finkelstein+15) and studied the general properties of high-z galaxies in several aspects, including the comparison with theoretical models developed at the purpose (e.g. Fontana+1999, Grazian+2011).
- Tracing the reionization of the Universe. Using extended spectroscopic programs (based on VLT-FORS2 programs that I led) I have for the first time shown direct evidence of an increasingly neutral Inter Galactic Medium at z>6.5, as shown by the decrease in the density of Ly emitting galaxies at z>6.5 (Fontana+10, Pentericci+11, 14). This sets a sharp constraint for the timing of reionization after the Dark Ages.
- Advanced methods for data analysis. During my whole career I have also developed and made public several new approaches to data analysis. Starting first with the FITLYMAN code originally installed in Midas (Fontana, Ballester 1995) I have developed methods for photometric redshifts since the early definition of the technique (Fontana+1998) and recently for de-blended photometry in deep extragalactic surveys (CONVPHOT, DeSantis+2007, T-PHOT and A-PHOT Merlin+2015-2018). Thanks to this experience I had been P.I of the FP7-SPACE project ASTRODEEP and of the Euclid Organizational Unit named MER.

MAIN PARTICIPATIONS TO SCIENTIFIC COMMETTEES AND APPROVED INSTRUMENT

TEAM

2015 MOS@E-ELT

2012 Hubble Deep Fields Initiative 2012 Science Working Group (NASA/STScI)

2012 Project Scientist for the extragalactic case of MOONS (ESO)

2010 DIORAMAS@E-ELT

2008-2009 Member of the ESO OPC / Chair of Extragalactic panel

2008 Euclid

2006 DUNE

2004-2008	LBC Commissioning team
2005-2006	LBC Science Demonstration Time Committee (LBT)
2004-2007	Chairman of the Hawk-I Instrument Team (ESO)
2003	Italian Committee on Surveys
2002	Italian Committee on Databases in Astronomy
2001	LBC@LBT - Project Scientist of the Instrument SW
2001-2002	TAC for the Telescopio Nazionale Galileo
2000	UVES – SW development and characterization
1999	SUSI2@NTT - ESO. Responsible of science commissioning
1998	ESO VLT-UT1 Science Verification Team
2005-now	Coordinator of the research Group of Observational Cosmology and Galaxy Evolution at the INAF - Rome Observatory, which has several leading responsibilities in projects using ESO, LBT, ALMA HST, Spitzer and other world-class instrumentation.

TEACHING	
University/PhD Courses	
2010-now	Professor at Università La Sapienza di Roma, teaching "Astrofisica Extragalattica" (48hr course) for the Master Course on Astronomy and Astrophysics.
2006	Professor of <i>Database in astrofisics</i> for PhD students at l'Università di Tor Vergata - Roma
2002	Professor of Cosmic structures at high redshifts for PhD students at l'Università di Tor Vergata -
2001	Professor of "High redshift galaxies: theory and observations" at the Università di Roma 3
Supervisor of master and PhD dissertation:	
2018	Laurea magistrale in Astronomia e Astrofisica – <i>Università La Sapienza</i> – Flaminia Fortuni
2018	Laurea magistrale in Astronomia e Astrofisica – Università La Sapienza – Michael Romano
2015	Laurea magistrale in Astronomia e Astrofisica – <i>Università La Sapienza</i> – Antonello Calabro'
2015	Laurea Magistrale in Astronomia e Astrofisica – <i>Università La Sapienza</i> – Graziano Ucci
2013 2012	Laurea Magistrale in Astronomia e Astrofisica – <i>Università La Sapienza</i> – Paola Di Mauro Laurea in Fisica – <i>Università La Sapienza</i> - Stefano Pilo
2012	Laurea Magistrale in Astronomia e Astrofisica – <i>Università La Sapienza</i> – Tiziana Trombetti
2009	PhD in Astronomia – <i>Università La Sapienza</i> – Paola Santini
2007	PhD in Astronomia – <i>Università di Tor Vergata</i> – Immacolata Donnarumma
2004	Laurea in Fisica – <i>Università La Sapienza</i> - Davide Ceccarelli
Member of PhD Thesis Commissions:	
2018	Université de Paris 7 – Stefania Amodeo
2017	Université de Paris 7 – Gael Noirot
2016	Università di Trieste – Emanuele Pomante
2016	SISSA - Emanuele Sobacchi
2010	Strasbourg University – Audrey Galametz
2010	SISSA – Pratika Dayal

CONFERENCES

1998-2019 Invited speaker to many international conferences

1996-2019 Invited Seminars at International Institutes like ESO (Munich joint colloquim) Laboratoire d'Astrophysique de Marseille (LAM), Leiden Observatory, Heidelbrg Steinwarte, Edinburgh Observatory, UCLA

2019 2019	SOC Chair of the Conference "Euclid and Beyond: the many faces of modern cosmology" SOC member of the series of 3 International conferences "Extremely Big Eyes on the Early Universe",
	held in Los Angeles, Tokyo, Rome
2019 2018	SOC Chair of the International conference "The early growth of galaxies V" SOC Member of the International conference "Birth, life and fate of massive galaxies and their central
2018	beating heart"
2018	SOC Chair of the International conference "The early growth of galaxies IV"
2017	SOC Chair of the International conference "The early growth of galaxies III"
2016 2015	SOC Chair of the International conference "The HST, Spitzer and Herschel joint legacy" SOC Member of the international conference "Science with MOS: towards the E-ELT" – Cefalu'
2015	SOC Chair of the International conference "The Spectral Energy Distribution of high redshift galaxies:
	lessons learned and open questions" Sesto Val Pusteria
2014	Chair of Workshop Nazionale LBT - Padova
2013 2012	SOC Member of the international conference "Star Formation Through Cosmic Time" Sexten Chair of Workshop Nazionale LBT - Padova
2012	SOC Member of the international conference "CANDELS in the high redshift Universe
2008	SOC Member of the international conference "Probing Stellar Populations" out to the Distant Universe
2007	SOC Member of the international conference "Galaxy Growth in a Dark Universe", Heidelberg, lu
PRIZES	
2006	Premio "Tartufari" dell'Accademia Nazionale dei Lincei
2001	Premio Ing. Franco Pietrandrea from Rotary Club Roma Castelli Romani: "Nascita ed evoluzione delle galassie: quale scenario?"
FUNDS	
International projects 2013-2016	Coordinator of FP7-SPACE "ASTRODEEP: unveiling the full power of deep extragalactic surveys" –
2013-2010	1,968,710 Euro
2011	Foreign Minister funds for LBT – ITA-USA collaboration. 30,000 Euro
Large scale Italian projects	
2013-2018	National Coordinator of the ASI funds for Euclid OU-MER. 600,000 Euro
2013	National Coordinator of the Project Premiale MIUR "Sensori Strategici per LBT: dal laser all'origine dell'Universo." 2,794,041.85Euro
2012	National Coordinator of the Project Premiale MIUR "Sensori Strategici per LBT: dal laser all'origine
2012	dell'Universo." 2,490,000 Euro
2007	WP Leader "Survey ed osservazioni multibanda:" of the contract ASI "Cosmologia e Fisica Fondamentale dallo Spazio" 800,000 Euro
Small scale Italian projects	
(PRIN INAF e MIUR)	
2012	National Coordinator of the PRIN INAF "A complete view of the first 2 billion years of galaxy formation" – Euro 154,000
2010	National Coordinator of the project "CANDELS: Tracing the history of the Universe with the largest HST program" 86,000 Euro
2008	Local Coordinator of the PRIN INAF "Feasibility and cost assessment of an extremely large Field of View spectrograph" (PI R. Ragazzoni). 82,000 Euro
2008	Local Coordinator of the PRIN MIUR "Survey infrarosse dell'Universo Primordiale: Galassie e AGN
	nel vicino IR. " (PI Nazionale A. Franceschini) – Euro 48.131
2007	National Coordinator of the PRIN INAF "A deep VLT and LBT view of the early Universe: the physics
2006	of high redshift galaxies". 160,000 Euro Local Coordinator of the PRIN MIUR " Imaging Survey multicolore e ultraprofonde: galassie ed AGN
2006	fino all'epoca della reionizzazione " (PI B. Marano) 62,000 Euro
2003	Local Coordinator of the PRIN MIUR "Data Grid per la ricerca astrofisica in Italia: Strumenti per Analisi Dati LBC" – (PI F. Pasian) 55.200 euro

OUTREACH

Press releases	
2015	ESO: "ALMA Witnesses Assembly of Galaxies in the Early Universe for the First Time",
	http://www.eso.org/public/news/eso1530/
2015	HST: "Hubble Sees Supernova Split into Four Images by Cosmic Lens",
	http://hubblesite.org/newscenter/archive/releases/2015/08/image/a/
2013	HST: "Galaxy Found in Hubble Survey Has Farthest Confirmed Distance:",
	http://hubblesite.org/newscenter/archive/releases/2013/39/
2011	ESO: "Distant Galaxies Reveal The Clearing of the Cosmic Fog",
0004	http://www.eso.org/public/news/eso1138/
2004	ESO: "Old Galaxies in the Young Universe", http://www.eso.org/public/news/eso0422/
2000	ESO: "Into the Epoch of Galaxy Formation": http://www.eso.org/public/news/eso0006/
1998	ESO: "First Results from the UT1 Science Verification Programme",
	http://www.eso.org/public/news/eso9858/
1998	ESO: "DEEP SKY DIVING WITH THE ESO NEW TECHNOLOGY TELESCOPE",
4005	http://www.eso.org/public/news/eso9801/
1995	ESO: "ESO Astronomers Detect a Galaxy at the Edge of the Universe",
INIAE	http://www.eso.org/public/news/eso9526/ I have appeared in many (28 at the moment) Press Releases in Italian media – full list available at
INAF	
	https://www.oa-roma.inaf.it/fontana/press-releases
Public lectures	
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