

Curriculum vitae

PERSONAL INFORMATION **Andrea Orlati**



 **Andrea Orlati**

Sex Male | **Date of birth** 11/03/1974 | **Nationality** Italian

WORK EXPERIENCE

01/04/2017–31/07/2018

Head of Operations of the Sardinia Radio Telescope

National Institute for astrophysics - Cagliari Observatory, Cagliari (Italy)

<http://www.oa-cagliari.inaf.it/index.php>

- Responsabile of the the operations at the SRT station.
- Scheduler of the telescope.
- Leader of the telescope team.
- Responsible of the maintenance of both the telescope and the infrastructure (buildings, laboratories).
- Member of the Italian Telescope Allocation Committee (TAC) for technical assessment of the proposals.

01/04/2004–Present

Technology researcher

National Institute for Astrophysics - Institute of Radioastronomy, Bologna (Italia)

www.ira.inaf.it

- Team leader of the group in charge of the development of the monitoring and control system installed at the SRT, Noto and Medicina Radiotelescopes. The software enables all the capabilities of the Italian radioastronomy facilities: servo systems, receivers, back-ends and also provides tools for calibration, astrometry and the preparation/scheduling of both single-dish and interferometric observations.
- In the framework of the Sardinia Radio Telescope construction, contributing to the main servo system work package. During the technical commissioning, taking care of sub-systems integration and first light measurements and telescope calibration.
- Responsible of VLBI at the Medicina Radiotelescope (VLBI friend), permanent member of the EVN-TOG (Technical and Operation Group).
- Member of the Italian Telescope Allocation Committee (TAC) for technical assessment of the proposals.
- Joining the Observation Management group inside the Telescope Manager consortium of the SKA project (SKA.TM.OBSMGT).
- Joining the ACTL-OPS package (the array control software) of the CTA Consortium.
- Member the Program Committee of the International Conference on Accelerators and Large Experimental Physics Control Software (ICALEPCS).
- Scientific Coordinator of the Work Package 7 (Delivery of electronic and mechanical interfaces for the integration of new systems) in the framework of the project "Improvement of the Sardinia Radio Telescope to study the Universe at high radio frequencies", funded by PON "Ricerca ed Innovazione 2014-2020".
- AIV Manager of the project "Improvement of the Sardinia Radio Telescope to study the Universe at high radio frequencies", funded by PON "Ricerca ed Innovazione 2014-2020".
- Responsible of the Radioastronomical station of Noto.

01/05/2001–31/05/2004 **Research fellowship**

National Council for Research (CNR), Medicina- BO (Italy)

- Tasks aimed at the optimizations of the VLBI activities and data quality at the Medicina Radiotelescope.
- Responsible for the telescope gain calibration and pointing.
- In charge of the monitoring and control system of the the main servo drivers of the telescope
- Maintainer for the gain calibration software (gnplt) employed at the VLBI stations (Collaboration with the NASA Goddard Space Flight Center staff).

01/2001–04/2001 **Independent consultant for software modeling and analysis**

CEDAF s.r.l., Forli (Italy)

- Tasks aimed at the production of data handling/logbook software for the Public Health Care Office ("ASL – Azienda Sanitaria Locale").
- Software modeling tools
- Conceptual data modeling: E/R models
- Oracle RDBMS
- Visual Basic

09/1999–12/2000 **Programmer and developer of custom business software**

INFOMANAGER, Cesena (Italy)

Borland Delphi
Visual Basic

EDUCATION AND TRAINING

10/2021 **Project Management & Systems Engineering**

National Institute for Astrophysics (INAF)

06/2021 **Il ruolo del Direttore dell'esecuzione nella gestione dei contratti per la fornitura di beni e servizi**

National Institute for Astrophysics (INAF)

05/2014–09/2014 **VmWare certified professional: data center virtualization**

VmWare, inc., Palo Alto(CA) (USA)

- Virtualization environmnts
- vSphere

07/2008 **Red Hat Certified Architect (RHCA)**

Red Hat, inc., Roma (Italy)

- Course and exhamination
- RHCA is the highest level of certification on Red Hat technologies.

09/2005 **Red Hat Certified Technician (RHCT)**

Red Hat inc., Roma (Italy)

- Course and exhamination
- RHCT is the first step in Red Hat Linux certifications

12/2003 **Advanced training in labVIEW**

National Instruments Italy s.r.l, Milano (Italy)

- Laboratory software and automated measuring systems
- Field buses
- Data acquisition and signal conditioning

05/2003 **Course on message passing programming**

CINECA, universities and research institutes consortium, Bologna (Italy)

- Parallel programming
- Asynchronous communications

11/2002 **Cluster-Linux Laboratory**

CINECA, universities and research institutes consortium, Bologna (Italy)

- Systems architecture
- High Performance Computing (HPC)

07/2000 **Master degree in computer science**

Università degli Studi "Alma Mater Studiorum", Bologna (Italy)

- Computation techniques
- Operational research
- Applied mathematics
- Statistics
- Software engineering

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s) English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B1	B2	B2

Communication skills Good verbal and written communication skills gained through my career. Excellent mediating aptitude obtained by collaborating with several heterogeneous and large teams and research groups.

Organisational / managerial skills Good organization and prioritization skills earned when coordinating software development team. Good team leadership developed as VLBI Friend at the Medicina Radiotelescope and as Head of Operations at the Sardinia Radio Telescope. I'm presently responsible of a team of more than 30 people.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Driving licence B

ADDITIONAL INFORMATION

Publications List of publication can be retrieved from ORCID:
<https://orcid.org/0000-0001-8737-255X>