



# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s) **Andrea Possenti**  
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 Nationality Italian  
 Date of birth 09 July 1963  
 Gender M

## Occupational field Scientific Research

### Work experience

Dates Since October 2010  
 Occupation or position held **Director** of INAF-Osservatorio Astronomico di Cagliari  
 Dates From 2004 until 2010  
 Occupation or position held **Staff Astronomer** at INAF-Osservatorio Astronomico di Cagliari  
 Dates From 2000 until 2004  
 Occupation or position held **Post-Doc (Assegnista)** at INAF-Osservatorio Astronomico di Bologna or at INAF-Osservatorio Astronomico di Cagliari or at University of Insubria

## Education and training

Dates March 2000  
 Title of qualification awarded PhD in Astronomy  
 Name and type of organisation providing education and training University of Bologna  
 Dates April 1995  
 Title of qualification awarded Laurea in Fisica  
 Name and type of organisation providing education and training University Statale of Milano

Mother tongue(s) **Italian**

Other language(s)

Self-assessment  
*European level* (\*)

**English**

**French**

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
B2	C1	B2	C1	C1	
B1	B1	B1	B1	B1	

(\*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

## Personal Lines of Research

- Direct participation to the **discovery and the subsequent studies** of the still **unique Double pulsar** in the radio, X-ray and gamma-ray bands
- Founding member of the *HTRU Pulsar collaboration*, which is performing a search for pulsars in the Galactic field which has already led to the discovery of 30 millisecond pulsars, among which the **discovery of the so-called "diamond planet" pulsar**. This project also led to the discovery of a population of **"Fast Radio Bursts"**
- Discovery and **timing of a dozen millisecond pulsars in 6 globular clusters**
- Member of the *Multi-beam Pulsar collaboration*, which led to the **discovery of about 800 pulsars** in the Galactic field
- Founding member of the *European Pulsar Timing Array collaboration*, which aims to a direct detection of the gravitational waves by exploiting the timing of an ensemble of millisecond pulsars
- Member of the *International Pulsar Timing Array collaboration*
- Study of the radio and X-ray emission from Neutron Stars undergoing "transient" accretion of matter
- Study of the magnetars and other peculiar families of neutron stars
- Study of formation and dynamics of the so-called blue stragglers and other exotic binary systems included in Globular Cluster
- Search for sub-millisecond pulsars and study of their evolution
- Study of thermal emission from neutron stars in the X-ray band

## Additional information

### Prizes:

- EU Prizes Descartes 2005 with the European collaboration PULSE for the discovery of more than 800 radio pulsars and of the first and still unique Double Pulsar

### Publications (as at the end of February 2014 according to ADS):

- 165 papers on refereed international magazines, among which 3 Nature and 6 Science papers
- 200+ other papers
- 6424 citations, with an average of 38.9 citations for refereed paper
- 2 educational books

### Talks at congresses and at international scientific institutions (as at February 2014):

- 15 invited talks

### Membership in committees

- nominated member of the Board of the Sardinia Radio Telescope since Oct 2010
- elected member of the Executive Board of EGO-Vesf since Nov 2013

### Qualifications

- Qualification for Associate Professor (i.e. II level) with marks "Excellent, Excellent, Excellent" on 28 December 2013

### University Teaching activities:

- Member of the *Committee of the Lecturers of the PhD School* in Nuclear Physics, Particles Physics And Astrophysics of the University of Cagliari (from 2007 until now)
- Lecturer of the course "*Physics of the Compact Object*" at Astronomy Department of the University of Bologna (academic year 2005-2006)
- Lecturer of the course of "*Radio astronomy*" at Department of Physics of the University of Cagliari (academic years 2006-2007 and 2009-2010)
- Lecturer of the course "*Physics of the Neutron Stars*" for the School for PhD students in Physics at the University of Cagliari (academic years 2003-2004 and 2004-2005)
- Lecturer of the module "*Astrophysics*" for the School SSIS (devoted to prepare high school teachers) of the University of Cagliari (academic years 2006-2007 and 2007-2008)

### International Teaching activities:

- Lecturer of the module "*Pulsars and collapsed objects*" for the MCCT-SKADS International school (year 2007)
- Lecturer of the module "*The role of the binary pulsars in testing gravity theories*" for the VIII SIGRAV graduate School in contemporary relativity and gravitational physics (year 2009)
- Lecturer of the module "*Electromagnetic observation of Pulsars and Binaries*" for the IV VESF school on Gravitational Waves (year 2009)
- Lecturer of the module "*The future of single dish radio astronomy*" for the I International school on Single Dish (year 2010)
- Member of the SOC for the I and II Sardinian Summer Schools in Astrophysics (year 2011 and 2012)

**National and International Educational activities:**

- More than 220 public conferences, 75% of which for students of the high-schools (from 1993 till now)
- More than 100 guided tours for visitors at various astronomical sites (from 1993 till now)
- Publication of two educational books with astronomical subject: namely "*Comete: diario di viaggio*" ("*Comet: A logbook*"), ed. Mimesis-Milano, 124 pages, 40 pictures (+CD Rom), 2002, ISBN 88-8483-078-8, and "*Eclissi*" ("*Eclipses*"), ed. MURSIA-Milano, 122 pages, 50 pictures (+CD Rom), 1999, ISBN 88-425-2603-7