

# Federico Bernardini

Marie Skłodowska-Curie fellow  
(Biographical Sketch)

INAF – Observatory of Roma, Italy  
International Astronomical Union (IAU)  
Athena+ (X-ray satellite)  
eXTP (X-ray polarimetry satellite)

## Research interests

My scientific interests focus on a wide range of modern high-energy astrophysics topics, such as extreme magnetic fields in compact objects and accretion and emission processes in galactic X-ray binaries. In particular, I am currently working on multi-wavelengths (radio to X-ray) studies of Low Mass X-ray Binaries hosting both neutron stars and black holes. I work as well on modeling the broad-band temporal and spectral characteristics of Ultra luminous X-ray Sources (accreting NS and BH in binary systems), Magnetars (isolated neutron stars), Cataclysmic Variables (accreting white dwarf in binary systems), and High Mass X-ray Binaries (accreting neutron star in binary systems).

## Professional experience

**2017-now Marie Skłodowska-Curie fellow**  
INAF Observatory of Rome, Italy

**2014-2017 Research Associate**  
New York University, Abu Dhabi, UAE

**2011-2014 Postdoctoral Fellow**  
Wayne State University, Detroit, USA  
Observatory of Naples, Naples, Italy

**2010 and 2011 Visiting Scientist**  
University of Colorado, Boulder, USA

**2010 Ph.D.**  
University of Rome “Tor Vergata”, Rome, Italy  
Observatory of Rome, Italy

**2009 Visiting Ph.D. Candidate**  
University of Amsterdam

**2007 B.Sc and M.Sc.**  
University of Rome “La Sapienza”, Rome, Italy

## Awards and Grants

Marie Curie/Horizon 2020-Astrofit2 fellow, INAF-Observatory of Rome, Italy (duration 2017-2020)  
Co-PI of a Research Enhancement grant (NYUAD – 2016)  
Five proposal granted by NASA as Principal Investigator (2009-2013)

## Peer reviewer

Member of the NASA *Chandra* space telescope panel (2015)  
Member of the NASA *Swift* space telescope panel (2014)  
Member of the NASA-JAXA *Suzaku* space telescope panel (2012)

## Referee

Monthly Notices of Royal Astronomical Society  
Astronomy & Astrophysics  
Astrophysical Journal

## Conference talks:

7 invited talks at institutes / international conferences  
18 public presentations of research since 2009