

# Brief CV of Francesco Santoli

## Current position

2003 - Technologist (permanent position since 2013) at the Institute for Space Astrophysics and Planetology (IAPS/INAF), Roma

## Education

1999 Master's degree in Aerospace Engineering, La Sapienza - University of Rome, Italy

2010 Ph.D. degree in Aerospace Engineering from La Sapienza - University of Rome, Italy

7/2001 Training course "Presentation and negotiation skills", Euresas.

8/2002 Training course "Aircraft Design", Kansas University, Dr. Ian Roskam.

## Role and responsibility in current projects

### Project: ISA accelerometer for ESA BepiColombo mission to Mercury

- ISA Deputy Principal Investigator
- Technical and Program Manager for science team activities
- ISA representative in the following BepiColombo Working Groups:
  - Data Handling and Archiving Working Group
  - Science Operations Working Group
  - Calibration Working Group
- Responsible of following WPs in IAPS activities for ISA development (funded by Italian Space Agency, contract ASI N. I/090/06/0 for phase A/B1, ASI/INAF N.I/022/10/0 for phase B2/C/D):
  - Phase A/B1:
    - WP3120 System Engineering
    - WP3310 Scientific and Concept Design
  - Phase B2/C/D:
    - WP3120 Technical Management
    - WP3220 Scientific Requirements definition and verification
    - WP3520 Scientific data reduction and calibration

### Project: Italian contribution to IXPE NASA mission

- Responsible of System Engineering of IXPE Instrument.
- Coordinator of the following Italian Working Teams:
  - IWT1 Instrument ICDs.
  - IWT4 Engineering resources budgets reporting.
- Component of Project System Engineering Team (PSET) at Mission level.
- Manager of Requirements Database at Instrument level (with IBM DOORS tools).

## Expertise

- System Engineering of complex Systems for Space applications.
- Definition of space and ground-based experiments for fundamental physics.
- Mechanical and thermal design of scientific instruments and related testing facilities.
- Performance analysis of complex systems.

## Responsibility in other research projects

2009 Responsible of following WPs in activities for the development of the sensor for the GReAT (General Relativity Accuracy Test) (funded by Italian Space Agency, contract ASI-INAF I/014/09/0):

- WP1.2 System Engineering
- WP2.2 Prototypes requirements definitions

2014 "Galileo and Accelerometry (GALAC)", project funded by European Space Agency, responsible of entire IAPS activities WP "Accelerometer requirements definition" and deliverables, and in particular of tasks: T13 "Project Management", T23 "Design of a model accelerometer configuration", and T24 "Interface with the S/C"