

CURRICULUM VITAEPersonal data:

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Curriculum Studiorum:

- 2001-2002: “*International Master of Space Systems Engineering*”, Delft University, NL;
- 1998 Research permanent position (Department of Astronomy and Physics, University of Trieste);
- 1998: Award “Premio di operosità scientifica”, assigned to young Physics researchers by “Società Italiana di Fisica” (SIF);
- 1997-1998: fellowship Electro-Optics research field (Area Science Park, Trieste);
- 1993-1995: “PHD in Physics (“Specializzazione” at Scuola Normale Superiore, Pisa): “Study of systematic errors in the $e^+e^- \rightarrow \tau^+\tau^-$ selection with the ALEPH apparatus at LEP”; tutors: Prof. Luigi Rolandi (CERN) and Prof. Luciano Ristori (Scuola Normale Superiore di Pisa); Prof. Andrei Kounine (CERN) and Henri Videau (Ecole Polytechnique);
- 1992: “Laurea” in Physics (110 cum “laude”, University of Trieste): “Misura dei Rapporti di Decadimento Topologici del Leptone τ con l’esperimento ALEPH al LEP”, at CERN, Geneve (CH); tutors: Prof. Luigi Rolandi and Prof. Gianrossano Giannini;
- 1990: “Summer Student” at CERN-L3 experiment, Geneve (CH);
- 1986: Scientific Diploma, “G. Oberdan”, Trieste.

Educational activities and duties:

- Teaching positions at University of Trieste: “Laboratory of Astrophysics for the Space” (2009-2011); “Missions and Instrumentation for the Space” (2002-2009); “Laboratory of Space Physics” (2000-2002); “Experimental Physics II – Module B - Laboratory of Optics” (2000/2001) “Environmental Physics” (1999/2000);
- Tutor of 19 “Laurea” Thesis (two ongoing);
- Tutor of four PHD students;
- Since 2003: member of the PHD School for physics;
- Since 2008: referee of educational activities for physics;
- Since 2010: referee of educational activities for the Science Faculty;
- 2004 to 2009: referee of student stage activity for physics;
- Scientific organizer of “Physics on the Sailing Boat” activity - INFN: <http://www.ts.infn.it/eventi/adriatica-ts/>
- Scientific organizer of “Physics and sport” activity: <http://physics.units.it/didattica03/orientamento/fisicaesport.php>
- Referee of “Science and sport” program: <http://www.laureescientifiche.units.it/notizie.php>
- Since 2008: Reference person for the University of Trieste in CIFS (Consorzio Interuniversitario per la Fisica Spaziale) steering committee;

- 2005 to 2008: Reference person for the University of Trieste in CARSO (Center for Advanced Research in Space Optics) steering committee;
- Since 1991: Associated to INFN (Istituto Nazionale di Fisica Nucleare), Trieste and Pisa;
- Since 2003: Associated to INAF (Istituto Nazionale Astro-Fisica), Trieste and Bologna.

Experience and Activity in Astro-Physics, Space Physics and Particle Physics:

– Astrophysics and Space Physics (88 papers):

1. Planck, third “Medium-Sized Mission” (M3) of ESA “*Horizon 2000 Scientific Programme*”, aimed to analyse the anisotropies of Cosmic Microwave Background (CMB) radiation of the whole sky by using two instruments, LFI and HFI (*Low and High Frequency Instrument*). With its 1.5 m diameter telescope, the two on-board instruments, LFI and HFI, can observe the sky simultaneously in nine frequency bands from 30 to 857 GHz with a sensitivity and angular resolution ever obtained before. These characteristics make Planck the ideal instrument to measure the small temperature variations of the CMB radiation. The micro-wave sky maps produced by Planck represent a crucial scientific step in the determination of the main cosmological parameters of our primordial Universe. Launched on May 14th 2009, since August 2009 the Planck satellite is in a Lissajous orbit about the L2 Lagrangian point in the Earth–Sun system to observe now for the fourth time the entire celestial sphere.
 - Planck LFI IOM - *Instrument Operation Manager* (responsible for all the operations performed by the LFI instrument);
 - Planck LFI AIV - *Assembly, Integration and Verification Manager* (responsible for LFI instrument on-ground tests and in-flight calibration and performance verification phase);
 - Planck LFI reference person for Planck Operation Coordination Meeting (POCM);
 - Planck LFI reference person for Routine Phase Meeting (RPM);
 - Planck LFI Coreteam Coordinator of the “Operations Area”.
 - 2003-2009: Planck LFI reference person for Planck Instrument Coordination Working Group (ICWG).
2. AtmoCube, nano-satellite for the study of the near Earth space environment based on the CubeSat project, developed by the University of Trieste. Program approved by ESA (*European Space Agency*) in reply to the “*Call for VEGA Maiden flight: CubeSat Selection*”. AtmoCube Principal Investigator.
3. Technology for instrumentation and detectors for space missions, Silicon detectors and Silicon drift Chambers.
4. AIRWATCH/EUSO (*Extreme Universe Space Observatory*): telescope aimed to measure EHECR (*Extreme High Energy Cosmic Rays*) flux by using a large aperture optical observatory on board the International Space Station (ISS).
5. AURORA, a small double telescope, “Notte” and “Alba”, on board the commercial satellite MegSat1 for the measurement of the night background produced by the atmosphere. “Notte” is aimed to the measurement of the night sky background radiation and “Alba” to the measurement of Aurora intensity. Scientific reference person of ASI (Agenzia Spaziale Italiana) “AURORA” project 2002/2003.
6. UVISS (*UltraViolet Italian Space Sky for the International Space Station*): high sensitivity telescope on board the Space Station, capable of working in a double mode, alternatively

spectroscopic or *imaging* UV, giving access to the whole UV band, from the atmospheric cutoff to the Lyman limit. Scientific reference person of ASI “Finder & Tracker” 2001 to 2003.

7. UVSTAR (*Ultra-Violet Spectrograph for Astronomical Research*) on board the Space Shuttle during STS 69 (1995, *Endeavour*), STS 85 and STS 95 (1997, 1998, *Discovery*) missions. Scientific reference person of ASI “UVSTAR” program 2000 to 2002.

– Particle Physics (168 papers):

1. Tau, muon and neutrino physics with the ALEPH detector at LEP, CERN (Geneva-CH). “Shift Leader In Matter Of Safety” and coordinator of the Hadronic Calorimeter during ALEPH data acquisition period.

Hobbies:

- Sports: sailing races, ski and running;
- Travels: trekking (Dolomites, Patagonia – Chile, Gobi desert – Mongolia, Amazonia – French Guyana), kayak (Greenland), Tibet, Syria, Egypt and United States, sailing cruises (Dalmatia);
- Reading and writing (“Il più bel satellite della mia vita”, ed. Scienza Express).