

CURRICULUM VITAE Prof. Francesco Berrilli

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Employment

07/2020 - present: Full Professor, Dept. of Physics, University of Rome Tor Vergata
10/2004 - 07/2020: Associate Professor, Dept. of Physics, University of Rome Tor Vergata
05/1989 - 10/2004: Assistant Professor, Dept. of Physics, University of Rome Tor Vergata
09/1985 - 05/1989: High school teacher (Physics and Laboratory), Ministry of Education
01/1985 - 08/1985: Software developer: semantic algorithms and relational database, SOGeI SpA

Teacher of:

- Space Weather (Solar Physics) (Master in Physics)
- Didactic Physics (Bachelor and Master in Physics)
- Sun and Space Weather (2nd level Master in Space Science and Technology)
- Motion and Energy Modules (2nd level Master in Science teaching profession)

Adjunct Positions

Corresponding member of Accademia Nazionale dei Lincei [2014 – present]
Research Collaborator at CNR-Institute of Physics of Interplanetary Space [1985 – 1998]
Associate National Institute for Nuclear Physics (INFN) [2011 – present]
Associate National Institute of Astrophysics (INAF) [2010 – present]
Visiting Researcher at Institute for Astronomy – University of Hawaii (Maui, USA) [Autumn 2014]
Visiting Researcher NSF at Geographic South Pole [Antarctica Summer 2016-17]

Research Skill Summary

Instrumentation and Observational Astrophysics: 40 years, Image Acquisition and Analysis: 32 years, Solar Physics and Sun-Earth interaction: 24 years, Space Weather: 13 years, Education Research: 13 years.

Note: Have secured funding as PI or Co-I in all research fields: about 3.1M€, 21 National Projects and 8 European Projects:

Projet International de Coopération Scientifique 2001 (CNRS e CNR)
FP7-INFRASTRUCTURES EST: The large aperture European Solar Telescope
FP7-SOLARNET: High-resolution Solar Physics Network
H2020-INFRADEV-1-2014-1 GRESt: Getting Ready for the European Solar Telescope
European Commission-Home Affairs CIPS-SPARC: Space Awareness for Critical Infrastructure
European Commission-Growth-Tender IPS Ionospheric Prediction Service project
H2020-INFRADEV-2016-2 PRE-EST Preparatory Phase for the European Solar Telescope
H2020-INFRAIA-2018-1 SOLARNET Integrating High Resolution Solar Physics

Scientific Publications: 272 entries, 110 refereed [NASA/ADS Database]

Professional Services

- Scientific coordinator of the Solar and Space Physics Group of the Department of Physics UNITOV
- Member of the Lincei “Commission for the environment and major natural disasters”
- Member of the Italian Space Agency (ASI) “Space Weather National Working Group”
- Elected member of the Scientific Board of SWICo (Space Weather Italian Community)
- Elected member of Macroarea 3 - Sun and Solar System of the INAF (no longer active)
- Italian member in the Groupe de Travail "Sun & Sun-Earth relationships" of the Institut national des sciences de l'Univers/CNRS and the Scientific Board of the BASS2000 database, Observatoire Midi- Pyrenees- Université de Toulouse (no longer active)
- Italian member, nominated by CNR, of the Scientific Advisory Council of the Franco-Italian solar telescope THEMIS (no longer active)
- Member of the International Astronomical Union, American Geophysical Union, European Physical Society, International Association of Geomagnetism and Aeronomy, Italian Physics Society
- Member of the steering committee on Public Outreach division II IAU (Heliophysics)
- Member of the Referees Pool: European Science Foundation, MIUR and Georgia Science Academy
- Expert Reviewer of the WG Contribution to the IPCC Sixth Assessment Report
- Deputy director of the II level UNITOV Masters: Science and Technology for Space and Trainer Profession in Science Education
- Deputy member of the Management Committee of the European Action COST ES1005 "Towards a more complete assessment of the impact of solar variability on the Earth's climate"
- Delegate for the University of Tor Vergata at the assembly of members of the National Interuniversity Consortium for Space Physics
- Principal Investigator ADAHELI Solar Mission Project (ASI phase A awards grant)
- Principal Investigator ADAHELI + Solar Mission ESA Call Small Missions 2012 proposal
- Principal Investigator SEE - Sun cubE onE Bando per Future Missioni Cubesat (ASI)
- Solar Mission Project (ASI phase A awards grant)
- Member of the Mission Scientific Teams of the missions: ESA-SolmeX, NASA-SAFARI, ESA-HiRISE, ESA Solar Orbiter
- Former Head of the Computing Center of the Physics Department
- Head of the Mechanical Workshop of the Physics Department
- Section editor for Geophysics of the Rendiconti Lincei Physical and Natural Sciences (LYNC) - Springer Nature
- Review Editor on the Editorial Board of Astronomical Instrumentation (specialty section of Frontiers in Astronomy and Space Sciences).
- Director of two International Schools "Frontiers of Space Science: from Solar Activity to NEOs" and "Ground and Space-based Instruments for Future Research in Solar-Terrestrial Physics"
- Member of several SOC and LOC and/or convener of National and International Meetings, Workshops and Congresses
- Journal Reviewer for: Advances in Space Research, Annales Geophysicae, Astronomy and Astrophysics, Earth, Moon, and Planets, Frontiers in Astronomy and Space Sciences, Il nuovo Cimento, International Journal of Thermal Sciences, Journal of Astronomical Telescopes, Instruments, and Systems, Journal of Space Weather and Space Climate, Living Reviews in Solar Physics, Methods in Physics Research, Monthly Notices of the Royal Astronomical Society, Physica A, Solar Physics, The Astrophysical Journal, The European Physical Journal D.

Supervisor of several dozen Bachelor's theses in Physics, Supervisor of 27 Master's theses in Physics and Universe Sciences, Supervisor of 22 PhD theses in Physics, Astrophysics and Space Science.

Honours and Awards

- Award: IAU Minor Planet Center 7918 Berrilli (1981 EJ22) Asteroid Name
- 2013 Research & Innovation Award - Edmund Optics – Fabry-Perot prototype @ UNITOV submitted L.Giovannelli

Education

Laurea in Fisica with grade 110/110 at La Sapienza, Rome University "Realization of an infrared spectrophotometer for the TIRGO telescope and first results of Herbig's Ae/Be star observations"
Supervisors: Dr Paolo Saraceno, Prof. Francesco Melchiorri

Dissemination and outreach

Particular attention has been dedicated to the dissemination of scientific culture by participating in dozens of dissemination initiatives of: physics, astrophysics, solar physics, sun-earth relations, climatology and history of science in Italy, Spain and France, at schools, scientific institutes, cultural foundations, libraries and academies.