PERSONAL INFORMATION

Andrea Contin

Via Travaglio 133, 44027 Fiscaglia (FE), Italia

+39 0544937333 +39335407503

andrea.contin@unibo.it

http://www.unibo.it/sitoweb/andrea.contin

Sex Male | Birth Date 19/06/1954 | Nationality Italian

PRESENT POSITION

Full Professor
University of Bologna
Italy

WORK EXPERIENCE

1/11/1994 - now **Full Professor of Physics**

University of Bologna

Via Zamboni 33
40126 Bologna
Italy

1/11/1987 - 31/10/1994 **Research Staff Member**

(European Organization for Nuclear Research (CERN)

CH 1211 Ginevra
Switzerland

1/7/1984 - 31/10/1987 **Researcher**

University of Bologna

Via Zamboni 33
40126 Bologna
Italy

1/7/1980 - 30/6/1984 **Research Staff Member**

(European Organization for Nuclear Research (CERN)

CH 1211 Ginevra
Switzerland

1/7/1978 - 30/6/1980 **Fellow**

(European Organization for Nuclear Research (CERN)

CH 1211 Ginevra
Switzerland

Scientific Activity in Elementary Particle Physics
My research activity started in 1977 in the field of Elementary Particle Physics and has mainly concerned with the study of weak, electromagnetic and strong interactions trough the participation in several experiments with protons, neutrinos, electron and positron beams, using particles accelerators in CERN, Geneva, Switzerland and in DESY, Hamburg, Germany.
Among the most significant and original results are the measurement of the production characteristics of new particles containing heavy quarks (“charm” and “beauty”), the development of a new way of

analysing multihadron production in proton-proton and electron-positron interaction, the determination of new limits in the production of free quarks and of other exotic particles foreseen by some extensions of the Standard Model, the measurement of the number of families of quarks and lepons, the measurment of the parameters of the Standard Model at the energy of the weak boson Z0.
As member of the Scientific and Technical Committee, I contributed in the definition of a large programme of Research and Development in new detectors (LAA Project) carried out between 1987 and 1994 at CERN, and subsequently acted as Spokesman in two projects for the development of optical and scintillating fiber detectors for the measurement of particle energy in very high energy interactions.
Since 1996, I have participated in the design of a cosmic ray detector built by a large international collaboration with participants from USA, People's Republic of China, Russia and many European Countries, under the direction of Nobel Laureate Samuel C.C. Ting. The main goal of the experiment is to improve the knowledge on the origin of the Universe through the search for antimatter in cosmic rays and for dark matter. The experiment underwent a 10-days test flight on the Space Shuttle Discovery in June 1998 and has been installed in May 2011 on the International Space Station for at least ten years data taking.

Scientific Activity in Environmental Sciences

Since 2002, I have been leading the Research Group on Environmental Management operating in the Ravenna Campus within the Interdepartmental Center for Research on Environmental Sciences. The Group is developing Environmental Management Systems, Environmental Information Systems, Environmental Reports and Analysis, and Environmental Communication methods, with the goal to analyze environmental risks and opportunities of private and public bodies, increase the efficiency of their internal processes and use of resources, efficiently communicate with the public and other organizations.
Since 2010, I am working on technology developments for the use of biomasses, in the framework of the High Technology Network of the Emilia-Romagna Region. The activities include new ways to pretreat lignocellulosic biomass for the production of energy and high value materials, the identification and use of microalgae for energy purposes and the evaluation of production chains.
Over the last ten years I have proposed, implemented and managed projects for about 1.2 million euro on:
• Preparation and maintenance of EMAS and ISO14001 Environmental Management Systems;
• technological developments and applications;
• environmental certifications and reports;
• other environmental consulting activities.
with private companies, public bodies and the European Union.
Since 2005, I am participating in the activities of the Physiology and Biochemistry Laboratory at Ravenna, in researches on hormone signal transduction, expression of genes and proteins sensitive to stress factors and the influence of these on human cells exposed to physical stress factors (electromagnetic fields).

Management Activity

Since its founding in 1986, I am a member of the President's Office of the International Center for Scientific Culture - World Laboratory (www.worldlab.ch/), an international NGO with advisory status at the United Nations Economic and Social Council, managing projects in the scientific, technical, environmental and medical fields, in particular for the benefit of developing countries. I have participated in the definition and follow-up of the Organization's program, with regard to the execution of more than 40 scientific and technical collaboration projects, the creation of some thirty research centers in several countries in Asia, Africa, South America and the Commonwealth of Independent States (former Soviet Union) and the negotiation of government-wide cooperation agreements with twenty countries.
From 1998 to 2004, I have been the President of the Degree Course in Environmental Science, with responsibility for coordinating the overall teaching activities. This course is a relatively recent extension (1989) of the Faculty of Mathematics, Physics and Natural Sciences and is located at the Ravenna Campus of the University of Bologna.
From 2001 to 2007, I have been Dean of the Ravenna Campus, with responsibility for fundraising, collaboration with local and national authorities, and overall Campus management.
Since 2009, I am the Director of the Interdepartmental Research Center for Environmental Sciences with responsibility for the overall management of the Center's research activities.

EDUCATION AND TRAINING

1972 - 1977 **M.Sc. in Physics (25/2/1977)**

University of Padova, Italy

1967 - 1972 **High School (Scientific Course)**

Liceo Barbarigo, Padova, Italy

PERSONAL SKILLS

Mother tongue Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
Quadro Comune Europeo di Riferimento delle Lingue

Communication skills

- Excellent communication skills acquired as a University Professor (see Additional Information - University Degree).

Organisational / managerial skills

- Excellent organizational and management skills acquired in International Research Projects and in the leadership of University Structures (see Additional Information - Tasks)

Job-related skills

- Excellent skills on data analysis of complex systems
- Excellent skills on management control systems (ISO 14001, EMAS)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Advanced	Advanced	Advanced	Advanced	Advanced

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Acquired skills:

- Excellent mastery of C ++, PHP, Fortran programming languages, acquired in my work as a data analyst from High Energy Physics Experiments
- Excellent mastery of Web site building programs (PHP, Apache) and data management (Excel, MySQL)

Memberships

- Italian Physical Society (since 1978)
- European Physical Society (since 1978)

Driving licence B

ADDITIONAL INFORMATION

Teaching

- Course in Environmental Sciences:
  - Advanced Physics (2nd year undergraduate course)
  - Renewable Energies and Energy Management
- Corso di Laurea Magistrale in Analisi e Gestione dell'Ambiente - titolare degli insegnamenti:
  - Environmental Economics and Resource Management (in english)
  - Environmental Impact and Risk Assessment (in english)
  - Environmental Management
  - Biofuels and Biorefineries
  - Radioactivity

Main positions

- 2009 - now: Director of the Interdepartmental Center for Research on Environmental Sciences, University of Bologna, Italy
- 2001 - 2007: Dean of the Ravenna Campus of the University of Bologna, Italy
- 1998 - 2004: Chair of the Professors Board of the Course in Environmental Sciences, University of Bologna, Italy
- 1992 - 1994: Principal Investigator of an International Collaboration aimed at the development of new particle detectors for Elemental Particle Physics
- 1987-1994: Member of the Scientific Committee of the LAA Prioject, CERN
- 1986 - now: Member of the President's Office of the International Center for Scientific Culture - World Laboratory, Lausanne, Switzerland

Publications

Author of more than 400 papers in international refereed journals

H-index

H-index (Scopus): **68**

ANNEXES

- Prof. Andrea Contin – Publication list (2007-2016)

Carla Felici
Curriculum vitae

La sottoscritta CARLA FELICI, nata a Roma il 5/5/1957, codice fiscale FLCCRL57E45H501M, residente in San Cesareo, Via Enrico Toti 82, 00030 San Cesareo (RM), ai sensi dell'art. 46 del DPR 445/2000, consapevole che le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità di essere in possesso dei seguenti titoli di studio:

- diploma di Perito per il Turismo (1976) = votazione 36/60
- attestato di stenodattilografia Speedwriting in inglese (1977) = votazione 28/30
- diploma Royal society of Arts : English as a foreign language (December 1979) = pass at Advanced Level
- University of Cambridge First Certificate in English (June 1979) = Grade A
- University of Cambridge Certificate of Proficiency in English (June 1980) = Grade C
- Univeristy of Cambridge Certificate in Advanced English (June 1994) = Grade B

Attività lavorativa

Dipendente dell'Istituto Nazionale di Fisica Nucleare con rapporto di lavoro a tempo indeterminato dal 1° Febbraio 1985 in servizio presso la Sezione INFN Roma Tor Vergata con inquadramento nel V livello professionale nel profilo di Collaboratore di Amministrazione.

Dalla data di assunzione fino al 12 Febbraio 1993 ha prestato servizio Presso l'Ufficio di Presidenza e Organi Direttivi con le seguenti mansioni:

- predisposizione della documentazione per le riunioni di Consiglio Direttivo e Giunta Esecutiva, compresi i verbali di Giunta Esecutiva;
- organizzazione di varie manifestazioni e Piani (allora) Quinquennali;
- predisposizione dei viaggi di lavoro (biglietteria, prenotazioni alberghiere, piano di viaggio) del Presidente e dei Membri della Giunta Esecutiva;
- relazione con stampa italiana e internazionale.

Dal Febbraio 1993 viene distaccata e successivamente trasferita presso la Sezione INFN di Roma Tor Vergata, dove ha svolto compiti di segreteria scientifica per il gruppo teorico della Sezione;
La sua attività ha riguardato in particolare

a. Physics Reports
b. Contratti Europei
c. Cofinanziamento MURST (Responsabile Nazionale Prof. R. Petronzio)
e. Seminari teorici
f. Traduzioni
g. Assistenza a borsisti INFN
h. Bilanci preventivi e consuntivi

i. APPEC Steering Committee,

Ha curato l'organizzazione di varie manifestazioni scientifiche e commissioni di concorso.

Dal 1° Marzo 2009 è responsabile del Servizio di Direzione della Sezione di Roma Tor Vergata e presso tale servizio svolge attività di:

- Ufficio del Personale, presenze e gestione buoni pasto
- Concorsi, selezioni, richieste di personale in tutte le fasi
- Convenzioni con l'Università
- Pratiche in materia di Sicurezze e contatti con il RLS della Sezione
- Medicina del Lavoro
- Responsabile archiviazione documenti identità ed assegnazione credenziali per accesso al dominio roma2.infn.it
- Referente per la Formazione del personale della Sezione dal 1998
- Elezioni
- Visite fiscali
- Consiglio di Sezione
- Assegni e borse di studio in tutte le fasi dalla richiesta alla presa di servizio
- Preventivi
- Responsabile del protocollo della sezione

Roma, 19 Dicembre 2017

Carla Felici

CURRICULUM FORMATIVO E DELL'ATTIVITA' SVOLTA

Giuseppe Osteria
nato a Napoli il 31 Ottobre 1962
Primo ricercatore
presso la Sezione INFN di Napoli

Curriculum formativo

1989. Laurea in fisica all'Università Federico II di Napoli, votazione di 110/110 e lode.

1990. Borsa di studio biennale dell'Istituto Nazionale di Fisica Nucleare, linea di ricerca "Fisica delle particelle e dei fenomeni fondamentali".

1992. Vincitore concorso per un posto da Ricercatore presso la Sezione di Napoli dell'Istituto Nazionale di Fisica Nucleare.

2005. Vincitore concorso nazionale per un posto Primo Ricercatore presso l'Istituto Nazionale di Fisica Nucleare.

2012. Abilitazione Scientifica Nazionale di prima fascia per il settore concorsuale 02/A1 –Fisica sperimentale delle interazioni fondamentali -

Attività di ricerca

Attività di ricerca svolta prevalentemente nell'ambito della fisica astro-particellare in esperimenti sotterranei, di superficie e su satellite.

Partecipazione all'esperimento MACRO fin dalla tesi di Laurea (1988- 2002).

Partecipazione all'esperimento MINI (SINGAO/ARGO) (1990-1993).

Promotore del progetto NOE/ICANOE (1994-1999).

Partecipazione all'esperimento WIZARD-PAMELA (2000-oggi).

Partecipazione all'esperimento NEMO (2006-2008)

Partecipazione al progetto di esperimento JEM EUSO (2007-oggi).

Partecipazione all'esperimento CSES - Limadou (fine 2014-oggi)

Responsabilità e ruoli ricoperti nell'ambito dell'attività di ricerca

Responsabile del sistema di acquisizione dei tubi a streamer QTP (Charge and Time Processor) dell'esperimento MACRO.

Responsabile del calorimetro dell'apparato NOE-ICANOE per i test su fascio al Cern.

Responsabile del programma di R&D preliminare alla proposta tecnica di esperimento NOE-ICANOE

Responsabile del sistema di tempo di volo e del trigger dell'esperimento PAMELA

Responsabile del gruppo di lavoro sull'analisi dei nuclei leggeri per l'esperimento PAMELA

Responsabile scientifico locale dell'esperimento PAMELA dal 2005 al 2013

Membro del Comitato scientifico e di quello esecutivo dell'esperimento PAMELA

Responsabile scientifico locale del progetto "The JEM-EUSO Project: observing cosmic rays and neutrinos from the International Space Station" finanziato nell'ambito del programma Studio di Astrofisica delle Alte energie - Proposta di "Nuove Missioni ed occasioni di missione". (2006-2008).

Responsabile scientifico locale dell'esperimento JEM EUSO dal 2007 ad oggi

Responsabile internazionale del Data Processor per il progetto JEM EUSO dal 2012

Responsabile internazionale del Data Processor e delle operazioni di volo per la missione EUSO-Balloon dal 2013

Responsabile internazionale del Data Processor per TA EUSO dal 2012

Responsabile internazionale del Data Processor per MINI EUSO dal 2014

Responsabile internazionale del Data Processor per EUSO-SPB dal 2015

Responsabile scientifico locale dell'esperimento CSES-Limadou dal 2015

Responsabile dell'elettronica di trigger e di front-end ed acquisizione dati del calorimetro dell'esperimento CSES-Limadou dal 2015

Responsabile scientifico dell'accordo attuativo EUSO SPB tra INFN e ASI dal 2017

Responsabile scientifico del Working Package "Studio e sviluppo sottosistema HW " nell'ambito del progetto POR Campania "Campus SiHM" (Controllo ed "Health Monitoring and Management" di Sistemi Complessi e Strutture Miste Metallo-Composito operanti in Ambienti Ostili sottoposte a Sollecitazioni Gravose) (2012-2015).

Responsabilità e ruoli ricoperti nell'ambito dell'attività di servizio

Referente locale per la formazione del personale della Sezione INFN di Napoli dal 1998.

Consigliere di amministrazione per conto dell'INFN del CRdC* Tecnologie Scarl (2010-2016)

*Centro Regionale di Competenza nei settori Energia, Materiali, Elettronica e Progettazione Industriale della regione Campania.

Coordinatore del Servizio elettronica e rivelatori della Sezione INFN, del Dipartimento di Fisica e dell'U.O.S. CNR-SPIN di Napoli dal novembre 2011.

Attività didattica:

Ho seguito, in qualità di relatore, decine di tesi di laurea in Fisica presso l'Università di Napoli "Federico II" svolte nell'ambito degli esperimenti a cui ho preso parte

Anni Accademici 1994/95 - 1996/97 collaborazione didattica al corso di Esperimentazioni di Fisica II per Fisici dell'Università di Napoli "Federico II".

Titolare, in qualità di professore a contratto, presso l'Università di Napoli "Federico II", dei seguenti insegnamenti del corso di Laurea in Informatica:

Anni Accademici 2003-2004 e 2004-2005 corso di Laboratorio di Architettura degli elaboratori elettronici.

Anno accademico 2005-2006 corso di Elettronica digitale ed applicazioni.

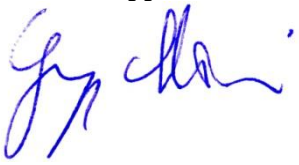
Anni accademici 2006-2007, 2007-2008 e 2008-2009 corso di Architettura degli elaboratori elettronici modulo B.

Membro del collegio dei docenti del Dottorato di Ricerca Internazionale in Tecnologie Innovative per Materiali, Sensori ed Imaging (TIMSI) dell'Università di Napoli "Federico II" (2010-2016).

Supervisore di una tesi di dottorato in fisica fondamentale svolta nell'ambito del progetto JEM EUSO presso l'Università di Napoli "Federico II". (2012-2015)

Napoli, 19 dicembre 2017

In fede
Giuseppe Osteria



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Europass
Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Roberta Sparvoli**
Address(es)	1, via della Ricerca Scientifica, I-00133 Rome, Italy
Telephone(s)	+39 06 72594289 Mobile: +39 3334465477
Fax(es)	
E-mail	roberta.sparvoli@roma2.infn.it
Nationality	Italian
Date of birth	February 7th, 1970
Gender	Female

Work experience

Dates	Since 29th January 2015
Occupation or position held	**Associate Professor SSD FIS/04, SC 02/A1 at the Rome "Tor Vergata" University**

Main activities and responsibilities	Teaching, Research • Teacher of the course "**Nuclear and Subnuclear Physics**" for the Physics Master classes. • Teacher of the course "**Informatics Lab**" for the Material Science Master classes. • Member of the **PHD Commission** at the University of Rome Tor Vergata. • **Coordinator of the INFN National Commission** for Astroparticle Physics on behalf of the Rome Tor Vergata INFN Structure. • National Coordinator of the "**CSES/Limadou"** experiment at the INFN Research Committee. • Coordination of the "**WiZard/PAMELA**" research group at the University of Rome Tor Vergata. • Local coordinator of the **WiZard** experiment at the INFN Research Committee. • Delegate of the University of Rome Tor Vergata at the **CIFS (Consorzio Interuniversitario di Fisica Spaziale) Consortium for Space Physics**.
Name and address of employer	Rome "Tor Vergata" University
Type of business or sector	Public University
Dates	2004-2015
Occupation or position held	**Researcher**
Main activities and responsibilities	Research, Assistant to Teaching
Name and address of employer	Rome "Tor Vergata" University
Type of business or sector	Public University
Dates	2000-2004
Occupation or position held	**TD Researcher**
Main activities and responsibilities	Data analysis and simulation for the space experiments NINA and PAMELA. Scientific analysis of the galactic and solar data coming from the telescope NINA in space. Simulation of the performance of the space telescope PAMELA. Coordination of the data analysis groups.
Name and address of employer	Italian National Institute of Nuclear Physics INFN
Type of business or sector	Public Research Institution
Dates	1998-2000
Occupation or position held	**Post-Doc**
Main activities and responsibilities	Data analysis and simulation for the space experiment NINA. Scientific analysis of the galactic and solar data coming from the telescope NINA in space.
Name and address of employer	Italian National Institute of Nuclear Physics INFN
Type of business or sector	Public Research Institution

Education and training

Dates	1994-1997
Title of qualification awarded	**Ph.D. in Physics**

Principal subjects/occupational skills covered	Title of thesis: “NINA: a New Instrument for Nuclear Analysis of primary cosmic rays”. Development of a space mission, simulation of the scientific performance, data analysis.
Name and type of organisation providing education and training	Rome “Tor Vergata” University
Dates	1989-1994
Title of qualification awarded	**Physics Degree**
Principal subjects/occupational skills covered	Solid preparation in modern theoretical, experimental and applied physics; deep understanding of the method scientific investigation; thorough knowledge of mathematics and computing; ability to model complex systems in different fields
Name and type of organisation providing education and training	Rome “Tor Vergata” University
Dates	1984-1988
Title of qualification awarded	**Scientific Diploma**
Principal subjects/occupational skills covered	High level preparation in Sciences, Humanities and Art. English preparation up to level B2. Primer in technology and computer science.
Name and type of organisation providing education and training	Liceo Scientifico Pitagora

Personal skills and competences

Mother tongue(s): Italian

Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	C2	C2	C2	C2	C1

(*) Common European Framework of Reference for Languages

Organisational skills and competences	Experienced Teacher for several Physics courses. Participation and Coordination of research groups at national and international levels. Lecturer for the International School of Astrophysics and for the International School of Space Sciences
Technical skills and competences	Analysis and interpretation of scientific data, writing of scientific articles, organization and management of research groups.
Computer skills and competences	Software management of PC and workstation platforms. Proficient with both Linux OS and Windows OS at SysManager Level. Programming skills in Fortran, C, LaTeX, HTML languages.
Other skills and competences	
Driving licence	“B” Italian driving licence

Additional information

Nuclear, antimatter and dark matter component in cosmic rays

The scientific activity of Prof. Roberta Sparvoli has been mainly dedicated to the field of Astroparticle Physics, in particular with regard to the study of nuclear and isotopic component of cosmic rays and the antimatter component (positrons and antiprotons, detection of any antinuclei), and search for possible indirect evidence of dark matter. These studies were carried out in space, by stratospheric balloons and on satellites, as part of the experimental program of the WIZARD collaboration. Among the most important missions on balloon of this collaboration we can remember MASS89, MASS91, TS93, CAPRICE94 and CAPRICE98. As for space missions, the WIZARD collaboration sent into space the telescopes NINA, NINA2 and PAMELA.

The space mission PAMELA represents a state-of-the-art of the investigation of the cosmic radiation, addressing the most compelling issues facing astrophysics and cosmology: the nature of the dark matter that pervades the universe, the apparent absence of cosmological antimatter, the origin and evolution of matter in the galaxy. PAMELA, a particle identifier using a permanent magnet spectrometer with a variety of specialized detectors, is an instrument of extraordinary scientific potential that is measuring with unprecedented precision and sensitivity the abundance and energy spectra of cosmic rays electrons, positrons, antiprotons and light nuclei over a very large range of energy from 50 MeV to hundreds GeV, depending on the species. One of the main scientific objectives of PAMELA is also the detection of SEP events and solar phenomena, in view of the Space Weather. PAMELA has been put in orbit, on board of the Resurs-DK1 Russian satellite by a rocket Soyuz, on the 15th of June 2006. More than 70 outstanding publications have been already produced by PAMELA.

Roberta Sparvoli is member of the CALET collaboration too, who has sent in orbit on board the ISS a sophisticated calorimeter in August 2015. Aim of the CALET experiment is to measure electrons and nuclei in cosmic rays up to the hundreds of TeV energies.

Currently Roberta Sparvoli participates to the experiment GAPS, that is a ballon-borne experiment located in the USA, aimed at searching for anti-deuteron in cosmic rays as signature of dark matter annihilation.

Life science in space

A parallel scientific interest of Roberta Sparvoli is in the field of life science in space, with the missions Si-Eye1 ans Sil-Eye2 on the Russian MIR space station, respectively, in the periods 1995-1998 and 1998-2000, and the missions Si-Eye3 (in 2002) and ALTEA (in 2006), on the ISS, the latter still in progress. These experiments performed a continuous monitoring of radiation within the Space Stations and allowed a detailed study of the risks to the astronauts due to ionizing particles.

Monitoring of the seismic activity from space

In the last years, Roberta Sparvoli became part of the collaboration CSES / Limadou. The main scientific objective of the mission CSES (China Seismo-Electromagnetic Satellite) is studying electromagnetic phenomena and their correlation with the geophysics activity, contributing to the monitoring of earthquakes from space.

The satellite CSES will host an Italian payload. The Italian contribution to the mission CSES, in fact, consists of an innovative instrument to measure energetic particles that precipitate from the Van Allen belts as a result of electromagnetic interference.

The satellite will have aboard a wide range of instruments (magnetometers

fluxgate and search-coil, high energy particle detectors, LP-RPA and ion drift meter) designed to jointly detect perturbations of different parameters and physical variables.

The scientific activity of Roberta Sparvoli is testified by 150 records as refereed articles in the SCOPUS database and by the numerous congress and meeting participations.

Additional information

Affiliations and Committee Memberships:

- INFN (Italian National of Nuclear Physics)
- SIF (Società Italiana di Fisica)
- CIFS (Consorzio Italiano di Fisica Spaziale)
- ISE (Istituto Scientifico Europeo)
- Editor for "Special Issue of Advances in Space Research: Origins of Cosmic Rays"
- Referee for Astrophysical Journal, Astronomy & Astrophysics, Astroparticle Physics, Advances in Space Reseacrh, Nuclear Instruments and Methods in Physics Research.