

ANTONIO CAPONE
CURRICULUM VITAE



PERSONAL INFORMATION

Name

CAPONE, Antonio

E-mail

Antonio.capone@roma1.infn.it

Nationality

Italy

March 2019

WORK EXPERIENCE

- From November 2001 to now
- Name and address of employer
- Occupation or position held
- Teaching activities and responsibilities

Full Professor, Research Associate for Istituto Nazionale Fisica Nucleare, Roma
Physics Department of University "La Sapienza" in Rome, Italy

Full Professor, chair of "Mechanics"

Teacher of "Mechanics" and "Particle and Astroparticle Physics" for the "Corso di Laurea" (Master) in Physics and "Astronomy with High energy Neutrinos" for the PHD course in Physics of University "La Sapienza", Roma.

2015 Teacher "Astronomy with High energy Neutrinos" for the PHD course in Physics for the University of Salerno

2012-now Member of the College of the PhD school in "Physics"

2010-2012 Member of the College of the PhD school in "Astronomy, Astrophysics and Space Science"

Research activities and responsibilities

2018 -2020 Member of the board that attributes the "Abilitazione Scientifica Nazionale) for the positions of Associate and/or Full Professor for the Italian Universities.

2018 Co-organizer and Editor of the 7th "Roma International Conference on Astroparticle Physics", (RICAP18, 4th – 7th September 2018).

2016 Co-organizer and Editor of the 6th "Roma International Conference on Astroparticle Physics", (RICAP16, 21nd – 24th June 2016).

2016 Responsible for a request of funds (funded with 9k€ by the University "La Sapienza") for a visiting professor (Prof. Manuela Vecchi) from the University of Sao Paulo (Brasil).

2016 PI of the project "Caratterizzazione e test di una sorgente acustica parametrica per la calibrazione di una rete di sensori acustici sottomarini" funded (13k€) by the University "La Sapienza".

2016 PI for an agreement with the University of Sao Paulo (Brasil) for the research project "Approccio multi-messaggero alla ricerca di sorgenti astrofisiche di Raggi Cosmici di altissima energia" funded (5.5k€) by the University "La Sapienza".

2015: Chairman, organizer and Editor of the 3rd International Workshop "Very Large Volume Neutrino Telescope", (VLVnT-2015, in the period September 14th-17th, 2015).

2015 PI of the project "Development of a GPU-based system for fast analysis of real time data streams" funded (10k€) by the University "La Sapienza".

2012-2015 national coordinator of the Italian INFN group "KM3" that includes the participation to the ANTARES experiment, to the KM3NeT collaboration and the continuation on NEMO activities for the construction of the Undersea Cherenkov

Telescope for High Energy astrophysical Neutrinos. In the period 2001-2012 local coordinator of the ANTARES and of the NEMO Roma-group.

During December 2011, in the framework of the "Piano Operativo Nazionale Ricerca e Competitivita' 2007-2013" part of the budget (about 21 M€) for the construction of the KM3NeT neutrino telescope was provided allowing to enter in the construction phase.

2011 PI of the project "Sviluppo di una sorgente acustica compatta, basata su ceramiche piezoelettriche, per la calibrazione di una rete di sensori acustici sottomarini" funded (12k€) by the University "La Sapienza".

2008-2012 Coordinator of the Work Packages "Industrial production for deep sea components" for the KM3NeT "Preparatory Phase" project funded by EU in the framework of 7th Frame Program.

2006-2009 Coordinator of the Work Packages "Shore and deep-sea infrastructure" for the KM3NeT "Design Study" project funded by EU in the framework of 6th Frame Program.

2008: Chairman, organizer and Editor of the 3rd International Workshop on the "Acoustic and Radio EeV Neutrino detection Activities", (ARENA-2008, in the period June 25th-27th, 2008).

2007 Promoter, Chairman, organizer and Editor of the "1st Roma International Conference on Astroparticle Physics", (RICAP07, 20th -22nd June 2007).

2006 Founder, and since then President, of the Cultural "Associazione Romana per le Astro Particelle", ARAP, (funded with the collaboration of Prof. Mario De Vincenzi and Dr. Aldo Morselli).

2003 Principal Investigator and responsible for the project "Technologies development for the detection of Astrophysical Neutrinos in undersea Telescopes" funded by the Italian Minister of University and Research (PRIN-2003)

Since 2001 – INFN local coordinator of the group NEMO and ANTARES for the search of High Energy Astrophysical Neutrinos.

1994 - 1995

- **Name and address of employer**
- **Occupation or position held**
- **Main activities and responsibilities**

Employed as "Scientific Associate" at the European Center for Nuclear Research (CERN) being "on leave of absence" from University "La Sapienza" in Rome, Italy.

European Center for Nuclear Research (CERN)

Researcher

Neutrino physics with the CHARM-II detector exposed at the SPS 400 GeV for the study of neutrino oscillation: coordinator of several data analysis groups.

• **From Nov. 1991 to Nov. 2001**

- **Name and address of employer**
- **Occupation or position held**
- **Teaching activities and responsibilities**
- **Research activities and responsibilities**

Associate Professor, on leave of absence in the period 1994-95, Research Associate for Istituto Nazionale Fisica Nucleare, Roma

Physics Department of University "La Sapienza" in Rome, Italy

Professor of "Physics" for the "Corso di Laurea" in "Informatics" (1991/1993)

Teaching of "Physics" for the "Corso di Laurea" in "Informatics" (1991/1993) and "Experiments of Physics III" for the "Corso di Laurea" in Physics (1994/2001)

1998-2001: promoter and INFN-Roma local coordinator of the project NESTOR for the realization of a submarine Cherenkov detector for High Energy Astrophysical Neutrinos. Responsible of the study of the deep-sea properties for the characterization of the deep-sea detector.

1991-1998: Neutrino physics with the CHARM-II detector exposed at the SPS 400 GeV –proton neutrino beam.

1994-1997: INFN national coordinator of the project NESTOR for the realization of a submarine Cherenkov detector for High Energy Astrophysical Neutrinos

• **From Nov. 1987 to Nov. 1991**

- **Name and address of employer**
- **Occupation or position held**

Associate Professor, Research Associate for Istituto Nazionale Fisica Nucleare, Roma

Università degli Studi della Basilicata, Potenza, Italy

Associate Professor

<p>Teaching activities and responsibilities</p>	Teaching of "Physics-1" and "Institution of Theoretical Physics" for the "Corso di Laurea" in "Mathematics" and "Experiments of Physics" for the "Corso di Laurea" in "Chemistry".
<p>Research activities and responsibilities</p>	Neutrino physics with the CHARM and CHARM-II. Coordinator of several CHARM-II analyses for the study of neutrino oscillations.
<p>1984 - 1987</p>	Employed as "Staff Member" at the European Center for Nuclear Research (CERN) being "on leave of absence" from University "La Sapienza" in Rome.
<ul style="list-style-type: none"> • Name and address of employer • Occupation or position held • Main activities and responsibilities 	<p>European Center for Nuclear Research (CERN)</p> <p>Researcher</p> <p>Neutrino physics with the CHARM and CHARM-II detectors exposed at the SPS 400 GeV –proton neutrino beam. Coordinator of several CHARM analyses and of the CHARM-II development, tests and construction.</p>
<p>1981 - 1983</p>	Employed as "Fellow" at the European Center for Nuclear Research (CERN) being "on leave of absence" from University "La Sapienza" in Rome, Italy.
<ul style="list-style-type: none"> • Name and address of employer • Occupation or position held • Main activities and responsibilities 	<p>European Center for Nuclear Research (CERN)</p> <p>Researcher</p> <p>Neutrino physics with the CHARM detector exposed at the SPS 400 GeV –proton neutrino beam: purely leptonic neutrino interactions, short lived particles in proton beam dump experiment, nucleon structure functions with neutrino interactions.</p>
<p>1981 - 1987</p>	University Researcher on leave of absence during 1981-1983 and 1984-1987, Research Associate for Istituto Nazionale Fisica Nucleare, Roma.
<ul style="list-style-type: none"> • Name and address of employer • Occupation or position held • Teaching activities • Research activities and responsibilities 	<p>Physics Department of University "La Sapienza" in Rome, Italy</p> <p>University Researcher</p> <p>Classes of exercises for "General Physics"</p> <p>Neutrino physics with the CHARM detector exposed at the SPS 400 GeV –proton neutrino beam</p>
<p>1976 - 1981</p>	Assistant professor, Research Associate for Istituto Nazionale Fisica Nucleare, Roma
<ul style="list-style-type: none"> • Name and address of employer • Occupation or position held • Teaching activities • Research activities and responsibilities 	<p>Temporary contract with Faculty of Mathematical, Physical and Natural Sciences of the University "La Sapienza", Roma, Italy</p> <p>University Researcher</p> <p>Classes of exercises for "General Physics"</p> <p>Multigamma experiment at the Intersecting Storage Ring (CERN) and participation to the neutrino CHARM experiment (CERN).</p>
<p>1975 - 1976</p>	Fellowship as researcher.
<ul style="list-style-type: none"> • Name and address of employer • Occupation or position held • Teaching activities • Research activities and responsibilities 	<p>Temporary contract with Istituto Nazionale Fisica Nucleare (INFN), Roma, Italy.</p> <p>Researcher</p> <p>Classes of exercises for "General Physics"</p> <p>Study of the production of pions in the interaction of an electron beam on a proton target at the INFN-Frascati electron Synchrotron; Multigamma experiment at the Intersecting Storage Ring (CERN)</p>
<p>1974 - 1975</p>	High School Professor, Research Associate for Istituto Nazionale Fisica Nucleare, Roma
<ul style="list-style-type: none"> • Name and address of employer • Occupation or position held 	<p>Istituto Tecnico Industriale Statale "Guglielmo Marconi", Civitavecchia</p> <p>Teaching "Electronics" and "Electrotechnics"</p>

EDUCATION AND TRAINING

1969 - 1974

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
 - Level in national classification

"Laurea" in Physics

Institute of Physics, "La Sapienza" in Rome, Italy, Faculty of Mathematical, Physical and Natural Sciences of the University "La Sapienza", Roma, Italy
General Physics, High energy particle physics

"Laurea" in Physics

110/110 Magna cum Laude

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

GOOD

GOOD

GOOD

FRENCH

- Reading skills
- Writing skills
- Verbal skills

GOOD

GOOD

GOOD

SOCIAL SKILLS
AND COMPETENCES

RESEARCH GROUP LEADER SINCE 1994 (PROJECTS NEMO, ANTARES, KM3NET, KM3)

ORGANISATIONAL SKILLS
AND COMPETENCES

2014-now Member of the "Giunta" of the Physics Depart. of University "La Sapienza"

2018 Co-organizer and Editor of the 7th "Roma International Conference on Astroparticle Physics", (RICAP18, 4th – 7th September 2018).

2016 Co-organizer and Editor of the 6th "Roma International Conference on Astroparticle Physics", (RICAP16, 21nd – 24th June 2016).

2012-2015 INFN national responsible of the Km3 group for the construction of the Undersea Cherenkov Telescope for High Energy astrophysical Neutrinos.

2015 Chairman organizer and Editor of the 7th "Very Large Volume Neutrino Telescope 2015" Workshop, (VLVnT15, 14th – 16th Sept. 2015).

2014 Co-organizer and Editor of the 5th "Roma International Conference on Astroparticle Physics", (RICAP14, 30th September – 3rd October 2014, held in Noto, Sicily, Italy).

2013 Chairman, organizer and editor of the 4th "Roma International Conference on Astroparticle Physics", RICAP-07, Roma, 22nd – 24th May, 2013.

2008-2012 coordinator of the Work Packages "Industrial production for deep sea components" for the KM3NeT "Preparatory Phase" project funded by EU in the framework of 7th Frame Program.

2008 Chairman, organizer and editor of the 3rd Roma International Workshop on the "Acoustic and Radio EeV Neutrino Detection Activities", ARENA-08, Roma, 25th – 27th June, 2008.

2007 Promoter, Chairman organizer and editor of the 1st "Roma International Conference on Astroparticle Physics", RICAP-07, Roma, 20th – 22nd June, 2007.

2006-2009 coordinator of the Work Packages "Shore and deep-sea infrastructure" for the KM3NeT "Design Study" project funded by EU in the 6th Frame Program.

2006 Since 2006 President of the Cultural association: "Associazione Romana per le Astro Particelle" funded by Prof. Antonio Capone, Prof. Mario De Vincenzi and Dr. Aldo Morselli.

2005 Member of the Organizing Committee and editor of the 2nd International Workshop on the "Very Large Volume Neutrino Telescopes", VLVnT2, Catania, 8th – 11th November, 2005.

2003 Principal Investigator and responsible for the project "Technologies development for the detection of Astrophysical Neutrinos in undersea Telescopes" funded by the Italian Minister of University and Research (PRIN-2003).

2002-2005 Member of the International Advisory Committee and organizer of the Parallel Session on "Astroparticle Experiments" for the "Astroparticle, Particle and Space Physics, Detectors and Medical Physics Applications".

1994-1998 As Principal Investigator for INFN I have coordinated the work of the Italian component of the NESTOR experiment .

TECHNICAL SKILLS
AND COMPETENCES

Good knowledge of scientific computer languages, fortran

2007 Promoter, Chairman organizer and editor of the 1st "Roma International Conference on Astroparticle Physics", RICAP-07, Roma, 20th – 22nd June, 2007.

2006-2009 coordinator of the Work Packages "Shore and deep-sea infrastructure" for the KM3NeT "Design Study" project funded by EU in the 6th Frame Program.

2006 Since 2006 President of the Cultural association: "Associazione Romana per le Astro Particelle" funded by Prof. Antonio Capone, Prof. Mario De Vincenzi and Dr. Aldo Morselli.

2005 Member of the Organizing Committee and editor of the 2nd International Workshop on the "Very Large Volume Neutrino Telescopes", VLVnT2, Catania, 8th – 11th November, 2005.

2003 Principal Investigator and responsible for the project "Technologies development for the detection of Astrophysical Neutrinos in undersea Telescopes" funded by the Italian Minister of University and Research (PRIN-2003).

2002-2005 Member of the International Advisory Committee and organizer of the Parallel Session on "Astroparticle Experiments" for the "Astroparticle, Particle and Space Physics, Detectors and Medical Physics Applications".

1994-1998 As Principal Investigator for INFN I have coordinated the work of the Italian component of the NESTOR experiment .

TECHNICAL SKILLS
AND COMPETENCES

Good knowledge of scientific computer languages, fortran

CURRICULUM VITAE di ALDO MORSELLI

Primo Ricercatore dell'INFN presso la Sezione di Roma Tor Vergata

COORDINAMENTO DI ATTIVITÀ DI RICERCA

- **Responsabile locale dell'esperimento Fermi per la Sezione INFN di Roma Tor Vergata** da Maggio 2000 .
- Da Luglio 2001 a Luglio 2006 **Co-Coordinatore del "Dark Matter and New Physics Working Group" di Fermi-LAT** insieme al dr. Elliott Bloom (SLAC)
- **Responsabile locale dell'esperimento CTA per la Sezione INFN di Roma Tor Vergata** da Gennaio 2013.
- Da Gennaio 2017 a Dicembre 2018 è stato **Coordinatore del gruppo Dark Matter and exotic physics** di CTA
- Dal 2014 partecipa al progetto premiale congiunto INFN-INAF **TECHE.it** (TElescopi CHErenkov italiani: astrofisica di altissima energia utilizzando nuove tecnologie made in Italy per il progetto europeo CTA)
- Dal 2014 fa parte del **CTA Consortium Board**
- Da Settembre 2015 è **Responsabile Nazionale per l'INFN del Grant AHEAD** Integrated Activities for the High Energy Astrophysics Domain della Commissione Europea nell'ambito di Horizon 2020
- Da Agosto 2001 a Settembre 2007 è stato **Coordinatore di Gruppo 2** della Sezione INFN di Roma Tor Vergata .
- **Responsabile locale dell'esperimento AGILE per la Sezione INFN di Roma Tor Vergata** da Gennaio 1998 a Dicembre 2012.
- **Responsabile locale dell'esperimento SilEye per la Sezione INFN di Roma II** da Maggio 1996 a Dicembre 2001.
- È autore di 431 pubblicazioni su riviste internazionali con Referee
hindex Scopus = 100 Author ID: 7005135069

Ha presentato 167 relazioni su invito a congressi internazionali, 10 a congressi nazionali, 16 lavori a nome della collaborazione a congressi internazionali e 7 a congressi nazionali ed è stato tra gli organizzatori di numerose scuole e congressi.

L'elenco completo delle pubblicazioni, delle relazioni a congressi e dei congressi organizzati si trova nella pagina web <http://people.roma2.infn.it/morselli/>

Roma 20/03/18

PAOLA LEACI

Posizione attuale: Ricercatrice (Rita Levi Montalcini) a tempo determinato, di tipologia B, presso il Dipartimento di Fisica dell'Università Sapienza, Roma (Italia).

Attività di ricerca: Fisica delle Onde Gravitazionali, Analisi dati di Onde Gravitazionali, Ricerca di Pulsar, Astrofisica Relativistica e Cosmologia.

Ruoli nella collaborazione Internazionale LIGO-Virgo:

- Coordinatrice responsabile (Chair) Virgo del gruppo di ricerca “Continuous-Wave working group” della collaborazione internazionale Virgo e co-coordinatore (co-Chair) del gruppo di ricerca “Continuous-Wave working group” della collaborazione internazionale LIGO-Virgo sulle onde gravitazionali continue.
- Coordinatrice responsabile Virgo (Chair) del comitato “LIGO-Virgo diversity”, la cui missione consiste nel tutelare i diritti delle minoranze, nel promuovere la conoscenza e l'apprezzamento della diversità nell'ambito della comunità scientifica.

Per maggiori dettagli si prega di consultare il curriculum vitae al link https://www.dropbox.com/s/nlshwuo8geoda8s/PaolaLeaciCV_IT.pdf?dl=0

Roma, 28/02/2018

