

Synthetic Curriculum Vitae et Studiorum (*Salvatore Capozziello*)

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Current Position and Scientific Appointments

Full Professor in Astronomy and Astrophysics at the University of Naples "Federico II". Associated at the *Istituto Nazionale di Fisica Nucleare* (INFN), Sezione di Napoli, with a Research Appointment in the Research Projects NA12 (Gravitation and Cosmology) and VIRGO-NA (Gravitational Waves). Associated at the *Istituto Nazionale di Astrofisica* (INAF) with a Research Appointment in Cosmology and Relativistic Astrophysics. Member of the *Gruppo Nazionale di Fisica Matematica – Istituto Nazionale di Alta Matematica* (GNFM-INDAM) with a Research Appointment in Relativity and Field Theory. Associated at CERN (Theoretical Division).

Previous Permanent Position

From 1996 to 2004, Staff Researcher in Theoretical Physics at the Faculty of Science of University of Salerno.
From 2005 to 2011, Associate Professor in Astrophysics at the Faculty of Science of University of Naples.

Education, Specializations, Post-Doctoral Positions and Awards

Laurea degree in Physics at the University of Rome "La Sapienza" in the Academic Year 1988/89 and PhD in Physics at the University of Naples "Federico II" in the Academic Year 1992/93 (national final examination September 20, 1994). In 1993, he was awarded with the Prize for the Astrophysical Sciences by the *Società Nazionale di Scienze, Lettere ed Arti (Accademia di Scienze Fisiche e Matematiche)*. In 1994, he got the Specialization in General Relativity, Cosmology and Particle Physics at the University of Naples "Federico II" and, in 1995, he got a post-doctoral position in Extragalactic Astrophysics and Cosmology at the Astronomical Observatory of Capodimonte (Naples). In 1996, he got another post-doctoral position in Physics of the Faculty of Science at the University of Naples "Federico II".

Scientific Activity

His scientific activity is essentially devoted to research topics in Cosmology, Relativistic Astrophysics and Physics of Gravitation in their theoretical and phenomenological aspects. In particular, his research interests are: Alternative Theories of Gravity and their cosmological and astrophysical application; Large Scale Structure of the Universe; Gravitational Lensing; Galactic Dynamics; Quantum Phenomena (e.g. neutrino oscillations) in astrophysical and gravitational ambits; Quantum Cosmology. The results of these researches are published in more than 300 papers appeared in international journals (see <http://www.slac.stanford.edu/inspires/>). Author of various monographic texts (for the editors Bibliopolis, Liguori, Nova Science, Springer) on topics related to Gravitational Lensing, Cosmology and General Relativity. He gave about 40 invited talks at Conferences and Schools and more than 40 invited colloquia at different Institutes.

International Scientific Initiatives and Appointments

He spent several periods as *visiting fellow* and *research fellow* in Germany, France, Poland, Spain, United Kingdom, United States, and South Africa. Since 2001, he was appointed for 5 years as *Associate Editor* and member of the *Editorial Board* of the international journal *General Relativity and Gravitation* (Springer). Since 2001, he has been a member of the *International Society of General Relativity and Gravitation*. Furthermore, he is regularly appointed as *referee* for the international journals *General Relativity and Gravitation*, *Physics Letter A* and *B*, *Physical Review D*, *Classical and Quantum Gravity*, *Europhysics Letter*, *Modern Physics Letter A*, *Astronomy and Astrophysics*, *Astrophysics and Space Science*, *Monthly Notices of the Royal Astronomical Society*, *International Journal of Theoretical Physics*. Member of the Scientific Council of SIGRAV (Società Italiana di Relatività Generale e Fisica della Gravitazione). Member of the executive program of scientific and technological cooperation between Italy and South Africa on the research project *Alternative Theories of Gravitation and Cosmology*, II session (2005-2007). Coordinator, for the Italian Side, of an *Integrated Bilateral*

Action (2007-2008) between the University of Naples “Federico II” and the *Instituto de Ciencias del Espacio-Barcelona* (Spain) (Title of the Project: *Dark energy and Modified gravity*). Scientific Coordinator of the Scientific Project *Constraining Cosmological Models by Gamma Ray Bursts* (PRIN 2009).

National Teaching Activity

Cosmology, General Relativity and General Physics at Master and PhD levels at the University of Naples. He taught also Astronomy and Theoretical Physics at the University of Salerno. He has been the supervisor of almost 40 Master students and 20 PhD students along his career.

International Teaching Activity

He carries out a considerable teaching activity at international level. Since 2001, he has been in the teaching staff (as teacher of Cosmology and General Relativity) of the *International PhD on Physics of Gravitation and Astrophysics*, an international PhD consortium among the Universities of Berlin, Portsmouth, Potsdam, Salerno and Zurich. *Contact Teacher* for the SOCRATES/ERASMUS programs with the Universities of Portsmouth (UK), Valladolid (Spain), Bilbao (Spain), Salamanca (Spain), Krakow (Poland), Wroclaw (Poland) and Szeged (Hungary). PhD teaching duties at *Karpacz Winter School of Theoretical Physics (Cosmology and Gravitation)* for the 2006 session.

Scientific divulgation/outreach.

Among his interests, there are History of Science and Epistemology. In particular, he is concerned in studies on the concept of Time and the history of cosmological models. Since 2002, he has taught History of Science at the Faculty of Science of the University of Salerno. Finally, he is involved in divulgation scientific programs for high-school students and teachers.