

ROBERTO CAPUZZO DOLCETTA

CV

Roberto Capuzzo Dolcetta was born in Milan (Italy) on nov. 1st 1953.

web page: astrowww.phys.uniroma1.it/astro/dolcetta.html

He got his high-school degree at the Liceo Classico E.Q. Visconti (Roma).

He took his Laurea degree "cum laude" at the University of Roma La Sapienza in July 1977. Preparing his dissertation thesis he was supported by a fellowship provided by the Italian National research Council (CNR).

After his Laurea he had another CNR fellowship until 1980, when he won two national wide competition for permanent positions in the research staff of the observatories and of the universities. Before this he got also a Fulbright-Hays fellowship for studying in the USA. In 1980 he also was awarded of a research contribution by SISSA.

Since July 1980 to July 2000 he has been working as full researcher at the University of Roma La Sapienza. In July 2000 he won a concourse as associate professor in astronomy and astrophysics at the University La Sapienza, where now he teaches Numerical Methods for Astronomy and Theoretical Mechanics. He has also taught advanced calculus, theoretical mechanics, celestial mechanics, stellar dynamics, etc..

He gave a series of lecture for PhD students in Astronomy and Physics of La Sapienza, as well as for PhD students in Physics of the univ. of Pavia.

He has taught in USA, at the University of Washington at Seattle the course for undergraduates "Extragalactic astronomy and cosmology" and at the Boston University, where he gave lectures for graduate students.

He has been, since 2002 to 2005, chairman of the supervising committee of the INAF-CINECA supercomputing agreement.

Until February 2010 he has been member of the Time Allocation Committee in the frame of the INAF-CINECA supercomputing agreement.

Since May 2010 he is scientific reviewer for IS CRA (Italian Super Computing Research Allocation) at CINECA.

He participates to the project PRACE (Partnership for Advanced Computing in Europe) which prepares the creation of a persistent pan-European HPC service.

He has been responsible of the Universe Sciences panel of the PRACE Access Committee since the birth of PRACE until 2014.

He has participated to the AstroSim program which bring together European computational astrophysicists working on a broad range of topics from the stability of the solar system to the formation of stars and galaxies, chaired by prof. B. Moore and funded by ESF.

He is co-chairman of the PhD in Astronomy, Astrophysics and Space Science of La Sapienza, joint program with Univ. of Roma Tor Vergata and INAF.

He is supervisor of the bachelor course in Physics and Astrophysics and of the MS in Astronomy and Astrophysics.

He is in the scientific board of the Master in Calcolo Scientifico (Scientific Computations), Dep. Of Mathematics, Sapienza.

Among the various international collaboration, the most relevant have been with P. Hodge (Univ. of Washington, Seattle, USA), D. Merritt (Rochester Inst. of Technology, Rochester, USA), one of the most eminent theoretical astrophysicists, S. Portegies Zwart (Univ. of Leiden, NL), R. Spurzem (ARI, Heidelberg, DE).

His research activity is mainly theoretical, in the field of stellar clusters, both galactic and extragalactic. He is an expert in sophisticated numerical methods to deal with large self-gravitating N-body systems. He obtained, among others, important results concerning evolution and dynamics of the globular cluster systems in galaxies, proposing a new original explanation for mass accretion and activity of galactic nuclei.

He wrote more than 200 scientific papers published in international magazines and international Proceedings, as well as didactic notes and papers of science popularization and the book "L'Universo" printed by Mondadori Publ..

He has been the main organizer of 8 international Conferences, Workshops and Schools (held in Aspen (USA), Bologna, Cefalù, Erice, Roma, Bad Honnef (DE), etc.) and has been in the SOC of many Conferences and Workshops.

RCD is one of the promoter of the project ASTROCOMP, that was financed by the CNR, that lead to the production of the first web portal (<http://www.astrocomp.it>) that allows to use parallel codes for astrophysical simulations, as well as CPU time on large parallel platforms.

He gave talks and colloquia in several national and international institutions, among which Roma, Bologna, Napoli, Firenze, Padova, Torino, Boston, Heidelberg, Leiden, Parigi, Mosca, Seattle, St. Petersburg, Victoria (Can), etc.

He has served as referee for all the main astrophysical journals, as well as for Computer Science and applied Physics and Mathematics journals.

He is member of many scientific societies (like Astronomical Society of the Pacific and Astronomical Society of India) and President of La Gravità, society for science popularization, which since 1998 obtains grants from MIUR in the frame of the national project for scientific culture diffusion.

Since 1998 to 2013 he has been a member of the National University Council (CUN), responsible of Physics until 2006 and, from 2006 to 2013, he has been member of the directive board of this consulting Council.

Since January 2010 to 2012 he has been a member of the Italian Foreign Affairs Ministry board for the promotion and diffusion of Italian culture in foreign countries.