

Maria Vittoria Salvetti -Curriculum vitae

1989 - Degree in Aerospace Engineering at the University of Pisa (Italy).

1990-1993 - PhD in "Sciences de l'Ingenieur" at University of Nice Sophia-Antipolis. Research activity on numerical simulation of hypersonic flows, carried out at the Institut National de Recherche en Informatique et Automatique (Sophia-Antipolis, France).

1994 - Visiting researcher for 4 months at the Chemical Engineering Department of the University of California at Santa Barbara.

August 1995 - Visiting researcher at the Environmental Fluid Mechanics Laboratory of Stanford University (California).

1993-2001 - Assistant professor of fluid dynamics at the Aerospace Engineering Department of University of Pisa.

since 2001 - Associate professor of fluid dynamics at the Aerospace Engineering Department of University of Pisa.

since 2007 - Associated researcher at the Istituto Nazionale di Geofisica e Vulcanologia (Pisa Unit, Italy).

2004-2007 - Vice-president of the PhD course in Aerospace Engineering of the University of Pisa.

since 2004 - Member of the council of the PhD School in Engineering "L. da Vinci".

2007-2011 - President of the PhD course in Aerospace Engineering of the University of Pisa.

2012 - Full Professor in Fluid Dynamics at the University of Pisa.

2014-2017 - President of the BsC and Master courses in Aerospace Engineering of the University of Pisa.

Since 2017 - Vice-president of the Engineering School of the University of Pisa.

Main research topics: simulation and modeling of turbulent flows (jets, particle-laden flows, Large-eddy simulation), bluff-body flows, reduced-order models for fluid dynamics, cavitating flows, flow instability, flow control, uncertainty quantification in CFD, micro-fluidics.

More than 100 scientific publications, among which more than 70 articles in international journals and 3 research books. H-index 20 and about 1100 citations (Scopus, March 2018).

Participation in and coordination of research projects funded by European Space Agency, Italian Ministry of Research, Italian Space Agency, European Community, industries.

Reviewer for the Italian Ministry of Research (MIUR), Swiss National Science Foundation, Netherlands Organisation for Scientific Research, Institut National de Recherche en Informatique et Automatique (INRIA, France), French National Research Agency (ANR).

Member of several selection committees for Assistant Professor, Associate Professor and Full Professor positions in Italy and for a Full Professor position in France.

Reviewer and/or member of the committee of many PhD defenses in Italy and abroad.

Reviewer for all the major international journals in Fluid Dynamics.

Since 2011 member of the Advisory Board of Acta Mechanica.

Since 2014 associate editor of Computers and Fluids.

Guest Editor of the special issue of the Journal of Scientific Computing "Quality and Reliability of Large Eddy Simulations".

Since 2016, editor of the ERCOFTAC Book Series (Springer).

Coordinator of the Special Interest Group on "Large-Eddy Simulation" (SIG 1) of the European Research Community on Flow, Turbulence and Combustion. Member of SIG "Uncertainty Quantification in Industrial Analysis and Design" (SIG 45).

Invited seminars and lectures at Italian and foreign Universities , Research Centers and at international conferences.

Several scientific collaborations in Italy and abroad.

Organization of workshops, schools, lecture series and benchmarks: "Fluid Dynamics of Cavitation and Cavitating Turbopumps", CISM, Udine, Italy (2005), benchmark BARC (<http://www.aniviawe.org/barc/>, 2008), workshop "Quality and Reliability of Large-Eddy Simulations II", Pisa (2009), 28th international conference on Mathematical Geophysics, Pisa, Italy (2010), International School of Aerospace Engineering Applications, Bertinoro, Italy (2010, 2011), workshop on "Uncertainty quantification in computational fluid dynamics", Pisa, Italy (2014), "Cavitation Instabilities and Rotordynamic Effects in Turbopumps and Hydroturbines", CISM, Udine, Italy (2014), Direct and Large-Eddy Simulation 11, Pisa, Italy (2017), Direct and Large-Eddy Simulation 12, Madrid, Spain (2018), FrontUQ19 - Workshop on Frontiers of Uncertainty Quantification in Fluid Dynamics, Pisa, Italy (2019).

Member of the scientific committee of international conferences and workshops.