

WORKING ADDRESS

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EDUCATION

1996-1998: Post-doc in "Environmental Engineering", University of Rome "La Sapienza".

1994: Ph.D. in "Environmental Engineering", University of Rome "La Sapienza".

1990: Degree in "Aeronautical Engineering", University of Rome "La Sapienza".

CAREER/EMPLOYMENT

2022-present: Full Professor (Hydraulics) at DICEA

2020-2022: Associate Professor (Hydraulics) at DICEA

2000-2003 Visiting Professor, Arizona State University, Department of Mechanical and Aerospace Engineering, Tempe, Arizona (5 months).

2000-2020: Assistant Professor (Hydraulics) at DICEA.

RESEARCH TOPICS

Environmental Fluid Mechanics (e.g., Lagrangian stochastic models of particle dispersion; Atmospheric flows; Turbulence and mixing in stably stratified flows; Canopy flows). He has collaborated with several research institutions and Italian and foreign universities (e.g., CNR, ISAC, ENEA, INGV, MetOffice, NCAR, Arizona State University, University of Utah, Ecole Centrale de Lyon, Eindhoven University of Technology, University of Notre Dame, Polytechnic University of Catalunya; University of Los Angeles).

COMMITTEE MEMBER

2024: Scientific Committee of PHYSMOD 2024 (International Workshop on Physical Modelling of Flow and Dispersion Phenomena), Lyon, France.

2017: Scientific Committee of HARMO18 (Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes), Bologna, Italy.

2006: Organizing Committee of the "XXX Convegno di Idraulica e Costruzioni Idrauliche", Rome, Italy.

EDITORIAL AND REVIEWER ACTIVITY

Reviewer for several peer-reviewed journals, e.g., Journal of Fluid Mechanics • Physics of Fluids • Advances in Water Resources • Environmental Fluid Mechanics • Boundary-Layer Meteorology • Journal of Applied Meteorology • Atmosphere • Urban Climate • Theoretical and Applied Climatology • Building and Environment • Remote Sensing • Science of the Total Environment • Atmospheric Pollution Research.

MAIN RESEARCH GRANTS OBTAINED IN A COMPETITIVE EVALUATION

2023 Responsible of the local unit of Sapienza of the PRIN project "GREENPOLIS - Multi-scale investigation of nature-based solutions for the mitigation of urban heat and pollution island" (Fund: 57,000 €).

2020 Principal investigator of the Research project "Integrated study of workers' exposure to atmospheric particulates in indoor environments: numerical-experimental simulation of fluid dynamic and concentration fields, in real and laboratory scale; chemical, morphological and toxicological characterization of fine and ultrafine particulates" (Funds: 740,000 €).

2017 Responsible of the local unit of Sapienza of the project "Numerical and experimental study of the transfer of atmospheric particulate matter (PM) within indoor environments" (Fund: 220,000 €).

2011 Principal investigator of the Research Project "Analysis of the Energetic Potential associated to the wave motion of the Mediterranean Sea", concluded between DICEA and the National Agency for New Technologies" (Fund: 40,000 €).

2006 Responsible of the local unit of Sapienza of the PRIN project titled "Hyperspectral analysis of sand

bars dynamics in lagoons" (Fund: 40,000 €).

He has been principal investigator of (or has taken part to) many other national and international research projects regarding environmental fluid mechanics and hydraulics.

POSITIONS OF RESPONSIBILITY

- Chief of the Hydraulics Laboratory of DICEA.
- Director of the Hydraulic Museum (Polo Museale Sapienza – Rector Nomination).
- Coordinator of the PhD Program in Environmental and Hydraulic Engineering.

TEACHING

Teaching involves master courses in Environmental Engineering (Environmental and Maritime Hydraulics, Urban Climatology), Master Degree and Ph.D. thesis supervision.