

Anna Palla

Fixed-term assistant professor

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Education and training

2005

Master degree in Civil Engineering with Geotechnical

Engineering solutions for the Central African Republic development fishery system project at Gbazara - Advisor Prof. L.G. Lanza - 110/110 summa cum laude

University of Genova - Genoa - IT

2005

Italian engineering professional license

University of Genova - Genoa - IT

2006

Hydraulic Engineer expert in Urban Drainage System

University of Genova - Genoa - IT

2009

Ph.D. in Fluid Dynamics and Processes of Environmental

'Unsaturated flow in engineering porous media for hydrologic restoration' - Advisor Prof. P. La Barbera.

University of Genova - Genova - IT

Academic experience

2015 - 2018

Fixed-term Assistant Professor (type A)

University of Genova - DICCA - Genoa - IT

Assistant Professor in Hydraulic and Coastal structure and Hydrology

2009 - 2015

Research fellow

University of Genova - Genoa - IT

Research fellow in Hydraulic and Coastal structure and Hydrology

2018 - ONGOING

Fixed-term Assistant Professor (type B)

University of Genova - DICCA - Genoa - IT

Language skills

Italian

Mother tongue

English

Independent

French

Basic

Teaching activity

2016-currently: Member of Committees for Bachelor and Master of Science Degrees in Environmental Engineering and Civil Engineering.

2016: Adjunct member of the Engineering Professional License Committee jointly organized with the Faculty of Engineering of the University of Genoa.

2007–currently: Advisor/co-advisor of 26 Bachelor and Master of Science theses in Environmental Engineering, Civil Engineering and Architectural Engineering.

2005–2015: Teaching assistant in the Courses of “Hydraulic Infrastructures”, “Aqueducts and Sewer Systems”, “Watershed management” taught by Prof. L.G. Lanza.

Research interests

The research interests involves both Urban hydrology and Watershed managements themes:

#Urban Hydrology

- Design and management of urban drainage systems addressing resilience and sustainability
- Low Impact Development (LID) practices /Green Infrastructure (GI) systems
- Rainfall-runoff process and pollutant dynamics on urbanized areas and in drainage systems
- Pluvial Flooding

#Watershed management

- Flood risk mitigation
- Semi-distributed hydrologic model
- Hydropower potential assessment

The specific research activities involve:

- Monitoring the hydrologic response and/or water quality impact of GI systems (green roofs and permeable pavements) in full scale experimental sites and laboratory test-beds;
- Hydrologic modelling of the GI systems (green roofs, permeable pavements and rainwater harvesting systems) at different spatial (single installation and catchment scale) and temporal (annual, daily or sub-daily) scales with particular attention for the infiltration (unsaturated flow) and evapo-transpiration processes;
- Assessing the water pollution removal by GI systems (green roofs and permeable pavements);
- Assessing the performance of the rainwater harvesting systems in the storm water runoff mitigation (urban block scale) and in the water

- saving (single installation);
- Assessing the impact of uncertainties in the operational condition of the surface drainage system on pluvial flood hazard;
- Catchment morphometric analysis and hydrological modelling to support the hydropower management strategies while ensuring the sustainable water resource management;
- Derived flood distribution approaches to investigate the impact of the rainfall event structures on the hydrograph peak estimation.

Grants

2005 - 2007

Characterization of the storm water quality

Regione Liguria - IT

Programma Obiettivo 2 (2002-2006) - Sottomisura 1.4 B - Participant

The aim of the project is to characterize the pollutant load associated with the storm water runoff in harbour and airport areas in order to define specific treatment units to be installed on-site.

Editorial activity

Selected Reviewer for Applied Mathematical Modelling (Elsevier), Building and Environment (Elsevier), Engineering Sustainability (Ice), Hydrology and Earth System Sciences (EGU), Hydrological Processes (Wiley), Hydrology Research (IWA), Journal of Environmental Engineering (ASCE), Journal of Flood Risk Management (Wiley), Journal of Hydrologic Engineering (ASCE), Journal of Hydrology (Elsevier), Journal of Water Resources Planning and Management (ASCE), Urban Water Journal (Taylor & Francis), Water Open Access Journal (MDPI), Water Science and Technology (IWA)