CURRICULUM VITAE

GENERAL INFORMATION

Name and surname Marco Centanni
Place and date of birth Bari, 03/24/1990
Nationality Italian
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RESEARCH ACTIVITIES

Main research interests

Hydrological modeling at the basin scale for assessing hydrological regime, water balance, and water quality in the Mediterranean environment; modeling the effects of anthropogenic pressures as point and diffuse sources of pollutants (nutrients and pesticides) on surface water at the basin scale; sustainability assessment in water use at the basin scale through water footprint indicators; assessment of best management practices (BMP) of agricultural basins for land sustainability on water quality; field activities: measurements of streamflow, water samplings for pollution analysis.

Participation in research projects

INWAT project "Quality and management of intermittent river and groundwater in the Mediterranean basins, partnership for research and innovation in the Mediterranean area" (PRIMA 2018).

AGREED - Agriculture, Green & Digital project code no. ARS01_00254 admitted to funding under the Notice for the presentation of industrial research and experimental development projects in the 12 areas of specialization identified by the PNR 2015-2020 (DD no. 1735 of 13/07/2017) CUP B94I20000180006.

AGRITECH - National Research Centre for Agricultural Technologies "Nature Based Solutions for the protection of natural resources and the reduction of the environmental impact of agricultural activity". CUP: H93C22000440007 - Project Code: CN00000022 SCIENTIFIC SECTOR DISCIPLINARY: AGR/08

Publications

Ricci G.F., Centanni M., De Girolamo A.M., Gentile F. 2023. Modeling daily streamflow in a temporary karst river system: comparing three approaches using the SWAT model, Hydrological Sciences Journal, 68:3, 462-473, https://doi.org/10.1080/02626667.2023.2174027

Centanni M., Ricci G.F., De Girolamo A.M., Romano G., Gentile F. 2023. A review of modeling pesticides in freshwaters: Current status, progress achieved and desirable improvements. Environmental Pollution, 316(P2), 120553. https://doi.org/10.1016/j.envpol.2022.120553

Centanni M., Ricci G. F., De Girolamo A. M., Gentile F. 2023. Modeling pesticides and eco-toxicological risk assessment in an intermittent stream by using the SWAT. Scientific report, https://doi.org/10.1038/s41598-024-56991-6

Workshop and webinar

International Association for Hydro-Environment Engineering and Research (IAHR). Webinar on Uncertainty in Hydrological Modelling and Water Resources Management 10/2021

SWAT+, SWAT Conference 2022, Prague, Czech Republic

Course of Urban hydrology: water-quality problems and their management. Stormwater Management Model (SWMM). Facultad de ingenieria, Universidad de la Repùblica Uruguay 06/2022

Creativity and innovation for sustainable development of the agri-food system: European policies from the PNRR. 12/2024, Italy, Napoli

Conferences

Centanni M., Ricci G.F., De Girolamo A.M., Gentile F. Pesticide modeling in surface runoff: a review of the current state, progress achieved and desired improvements. European General Assembly (EGU) 2022. https://doi.org/10.5194/egusphere-egu22-8317

Centanni M., Ricci G F., De Girolamo A.M., Gentile F. Simulation of outflow in a karst river basin: comparison of different approaches. SWAT conference 2022, Prague, Czech Republic.

Centanni M., Ricci G.F., De Girolamo A.M., Gentile F. Different approaches to model temporary hydrological regimes in a Mediterranean karst basin using the SWAT model. European General Assembly (EGU) 2023, Vienna, Austria. https://doi.org/10.5194/egusphere-egu23-778

Centanni M., Ricci G.F., De Girolamo A.M., Gentile F. Different approaches to model temporary hydrological regimes in a Mediterranean karst basin using the SWAT model. Meeting of PhD Students and Young Researchers in Ecology and Sciences of Aquatic Systems 2023.

Centanni M., Ricci GF, De Girolamo A.M., Gentile F. Identification of areas of critical origin of pesticides in a Mediterranean river basin using the SWAT model. SWAT conference 2023, Aahrus, Denmark.

Centanni M., Santini M. The impact of agronomic practices on water quality: grey water footprint assessment. Dissemination of the results of the AGREED project. CIHEAM, 2024, Bari, Italy.

WORK EXPERIENCE

06/2025 - Ongoing

Collaborator for the CMCC (EURO-MEDITERRANEAN CENTRE ON CLIMATE CHANGE) for the conduct of research activities within the projects of the SOWAS division, with particular reference to hydrological processes within the Earth Critical Zone:

▪ “AQUA – Enhancing Water Management for Climate Change Resilience in Adriatic – Ionian area”
▪ “PNRR CNB – Spoke Earth”

08/2024 – 06/2025 Research Fellow
Department of Soil, Plant and Food Sciences, University of Bari Aldo Moro, Bari, Italy.

Research title:
Nature Based Solutions for the protection of natural resources and the reduction of the environmental impact of agricultural activity.
Research reference project:
Agritech - National Research Centre for Agricultural Technologies

10/2023 – 07/2024 Collaborator for the CMCC (EURO-MEDITERRANEAN CENTRE ON CLIMATE CHANGE) for carrying out hydrology and water quality modeling activities within the projects:

▪ “AGREED - Agriculture, Green & Digital”
▪ “PRIMA ACQUAOUNT Adapting to Climate change by Quantifying optimal Allocation of resOUrces and socio-ecoNomic inTerlinkages - ACQUAOUNT”.

EDUCATION AND QUALIFICATIONS

11/2020 – 02/2024 PhD in Sustainable Land Management, University of Bari Aldo Moro, Department of Soil, Plant and Food Sciences

01/2023 – 04/2023 Visiting period at University of Las Palmas de Gran Canaria (Spain), Escuela de Ingenierias Industriales y Civiles

07/2020 Qualification to practice the profession of Forestry Agronomist

09/2017 – 06/2020 Master's degree in Agriculture in the course of Management and Sustainable Development of Mediterranean Rural Systems, University of Bari Aldo Moro
Class LM – 75
Thesis entitled "Analysis of problems related to hydraulic risk in a coastal area of Puglia" in Forest Hydraulic Assessment
Vote: 108

09/2013 – 03/2017 Bachelor's Degree in Agriculture in the course of Protection and Management of the Territory and Agro-Forestry Landscape, University of Bari Aldo Moro
Class LM – 75
Thesis entitled "Organization and Planning of Resources and Forest Fire Prevention Activities in the Puglia Region" in General and Special Forestry

2004 – 2009 Scientific high school, Gaetano Salvemini, Bari

INTERNSHIP AND

TRAINING

02/2019 – 02/2020 National Civil Service, Central Agricultural Library of the University of Bari Aldo Moro for the UNILIBRI project:
- Cataloging
- Book loan and consultation services through the use of Fluxus IT platform
- Reference service
- Back Office activities
- Knowledge of OPAC and the Database System of the University of Bari

09/2017 – 04/2018 Job orientation internship in the Public Administration at the offices of Adisu Puglia, Bari:
- Helpdesk - Front Office
- Book loan and consultation service

06/2015 – 09/2015 Training Internship at the Civil Protection Section in the Puglia Region:
- Updating of regional water supply points on ArcGIS (Geographic Information System)
- Analysis and Study of the Regional Forecast Bulletin for Forest Fires

PERSONAL SKILLS AND COMPETENCES

Hard skills
- Soil and Water Assessment Tool (SWAT) Model
- Stormwater Management Model (SWMM)
- ArcGis and QGis (Geographic Information System)
- HEC – RAS (Hydrologic Engineering Center's)
- Fragstats (Spatial Pattern Analysis Program for Categorical Maps)
- AutoCad
- Rstudio
- Office package (Excel, Word, Notepad, Power Point)

Soft skills
- Concept Development
- Problem solving
- Determination in pursuing goals
- Ability to adapt to new contexts
- Ability to work in team
- Outstanding creativity
- Excellent time management
- Dynamism
- Attention to detail
- Maximum availability and flexibility

OTHER

Language Italian (native language)
English, Spanish

Driver's license Yes

Personal data I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Personal data protection code"