

CV Prof. Mariano Buccino
CURRICULUM VITAE Personal Information

- **Name:** Mariano Buccino
- **Date of Birth:** May 6, 1970
- **Place of Birth:** Naples, Italy

Position

- Researcher, Permanent Position in Scientific-Disciplinary Sector ICAR/02, Department of Civil, Architectural and Environmental Engineering (DICEA), University of Naples Federico II (since November 2008). Confirmed in position in December 2012.
- Associate Professor of Maritime Construction and Coastal Engineering, University of Naples Federico II (since September 3, 2018).
- Scientific Qualification to First Level Professor (DD 553/2021) in Concours Sector 08/A1 obtained in February 2021.

Education

- **Master's Degree in Civil Engineering (Hydraulics)**, University of Naples Federico II, Graduated with highest honors. Thesis: "Impulsive wave actions on vertical structures: forecasting impact percentages and influence of structural extension," supervised by Prof. Edoardo Benassai and Prof. Mario Calabrese.
- **Ph.D. in Hydraulic and Environmental Engineering**, University of Naples Federico II (XV cycle) awarded in January 2004. Thesis: "Wave Transmission and Set-up at Low-Crested Breakwaters."
- Participated in an exchange program at ForshugsZentrumKüste (FZK), Hannover, Germany during January-March 2002.

Professional Experience

1. Scientific Collaboration Contracts:

- University of Perugia, Scientific Collaboration (Oct 1999 - Sep 2000): Laboratory tests on wave characteristics on steep beaches.
- University of Naples Federico II, Research Grant (Mar 2005 - Feb 2007): Hydrodynamics and morphodynamics of the surf zone with submerged structures.
- AMRA consortium, Project-based contract (May 2007 - Apr 2008): Estimation of tsunami vulnerability in the Strait of Messina.

2. Professional Consultancy:

- Collaborated with various municipalities on hydraulic and coastal erosion studies, including Sorrento and Portici (2004-2006).
- Collaborated with RINA Consulting for reviewing of Maritime Hydraulics of the new Genoa Breakwater

Teaching Experience

- Exercises in "Maritime Constructions" and "Coastal Regulation and Protection" since Academic Year 2000/2001.

- Held supplementary teaching contracts for various courses in the academic years from 2004/2005 onwards. This includes “Littoral Regime and Protection” (full course in the Academic Year 2017/2018 through 2019/2020) and “Maritime Construction” (3CFU/9 Academic Year 2017/2018 through 2018/2019)
- Current course responsibility for “Coastal Engineering” (Academic Year 2012/2013 onwards, 9CFU), “Coastal Protection and Power Supply” (Academic Year 2021/2022 onwards, 6CFU).
- Current responsibility on 3 Credits out of 9 for the course of “Littoral Regime and Protection” (Academic Year 2020/2021 onwards)

Theses Supervision

- Supervisor for 75 Master’s theses and 2 Bachelor’s theses from Academic Year 2000/2001 to Academic Year 2023/2024.

Ph.D. Supervision

- Supervisor for seven Ph.D. programmes from 2007-2024.

Scientific Leadership in Applied Research Projects

- From 2013 to 2024: Leader scientist in 12 Applied Research Projects developed for the *University of Naples “Federico II”* and CUGRI Consortium (*inter-University Centre for the Prediction and Prevention of Major Hazards*). Among these:
 - Physical Modelling of *Wave Overtopping at Malecón Tradicional Seawall in La Habana (CUGRI 2013)*.
 - Physical Modelling of *Al-Sabah Causeway Breakwater, Qatar (CUGRI, 2015)*.
 - Analysis of possible strategies for Coastal defence at the Sorrento Peninsula (University of Naples 2018).
 - Hydraulic Stability and Overtopping Response at the port of Maratea, South Italy (University of Naples, 2023).
 - Review of the hydraulic design of the new Genoa Breakwater (University of Naples, 2024)

Research Activities

- Organized or participated as a speaker at numerous national and international conferences.
- Participated in various national and international research projects focused on hydraulic phenomena.

Publications

- Author of approximately 100 scientific papers, with 56 documents listed in the SCOPUS database (as of October 20, 2024), including 890 citations and an H-index of 20. Google Scholar reports 1,303 citations in total.

Editorial Responsibilities

- Academic editor for *WATER (MDPI)*; *ENERGIES (MDPI)*; *JOURNAL OF MARINE SCIENCE AND ENGINEERING (MDPI)*;
- Guest Editor for various Special Issues concerning Coastal Engineering and Wave Energy ;
- Reviewer for numerous international journals, including *Ocean Engineering (Elsevier)*; *Coastal Engineering (Elsevier)*; *Coastal Engineering Journal (Taylor and Francis)*; *Applied Ocean Research (Elsevier)*; *Ocean Modelling (Elsevier)*; *Journal of Ocean Engineering and Science (Elsevier)*.