

Massimo Rivarolo

Associate Professor

EDUCATION AND TRAINING

2013

European PhD in fluid machinery engineering

Hydrogen production from large size hydraulic plant (14,000 MW) and study of storage systems and sustainable utilization in South America and Europe
Università degli Studi di Genova – Genova – IT

2009

Master Science in Mechanical engineering (36/S)

Distributed CHP from renewable energy sources: monitoring, management and technological optimization of an anaerobic codigestion (0,95 MW) plant fed by agriculture biomass and zootechnical effluents – Final rank: 110/110
Università degli Studi di Genova – Genova – IT

PROFESSIONAL HISTORY

2021-2024

Researcher – type B

Teaching, member of the scientific PhD board of Marine Science and Technologies, member of the Scientific Board of UniTwin-UNESCO Chair, EU and National Research projects
Università degli Studi di Genova – Genova – IT

2019-2021

Researcher – type A

Teaching, member of the scientific PhD board in Marine Science and Technologies, research projects on H2 and Fuel cells for maritime applications
Università degli Studi di Genova – Genova – IT

2015-2018

Research fellowship

Scientific collaboration UNIGE-ARERA (Italian Authority for Energy)
Università degli Studi di Genova – Genova – IT

2013-2014

Research fellowship

Università degli Studi di Genova – Genova – IT

ACADEMIC APPOINTMENTS

2024 - today

Coordinator for the PhD Curriculum Machines and Energy Systems for the Sea

Coordinator for the Curriculum within PhD in Marine Science and Technologies
Università degli Studi di Genova – Genova – IT

EXPERIENCE

MAIN SEMINARS

2024 International seminar (Marrakech, Morocco)

E-Fuels: which opportunities for the maritime sector?

Horizon EU Just GreenH2 Africa Project

2024 National Hydrogen day

Models for integration of PEM FC and metal hydrides on the first Italian H2 vessel (ZEUS)

AIMSEA

2022 Seminar in the Course Circular economy and energy transition from global to local

Use of renewable energy sources and storage

A2A

2021 International Formation course (online)

production and use of green hydrogen technological innovations

GIZ - Triangular Cooperation Project: Affordable and Sustainable Energy for Paraguay –

Implementing the national energy policy

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

2025 – today Scientific Responsible for UNIGE in the Horizon EU CyLH2Valley Project

Unlocking the Castilla y León region potential to establish a clean Hydrogen Valley and Economy

European Commission

2023 – today Scientific Responsible for UNIGE in the Horizon EU RH2IWER Project

Renewable Hydrogen for inland waterway emission reduction

European Commission

2023 – today Scientific Responsible for UNIGE in the PRIN 2022 NEREHYDES Project

Novel hEat REcovery solutions on board of FC equipped vessels for metal HYDridES storage optimal management

Ministero dell'Università e della Ricerca (MUR)

2023 – today Scientific Responsible for UNIGE in the PRIN PNRR 2022 SOFFHICE Project

SOFC Hybridization with Internal Combustion Engine fuelled by Natural gas for maritime applications

Ministero dell'Università e della Ricerca (MUR)

2022 – today Scientific Responsible for UNIGE in the Horizon EU OnePlanet Project

Open Source nexus modelling tools for planning sustainable energy transition in Africa

European Commission

TEACHING OR RESEARCH POSITIONS (FELLOWSHIPS) AT FOREIGN UNIVERSITIES AND RESEARCH INSTITUTES

2013 International Master

Chemical reactors and catalytic processes for Hydro-methane and methanol generation from renewable sources

Università di Asuncion (Paraguay)