

Stefano Gaggero

Associate Professor

EDUCATION AND TRAINING

2000

High school diploma

Scientific High Scholl “Luigi Lanfranchi” – Genoa

2006

MSc in Naval Architecture and Marine Engineering

University of Genoa

2010

PhD in Mechanics of Fluids and Solids, Curriculum in Naval Architecture

University of Genoa

PROFESSIONAL HISTORY

2010 - 2014

Research fellow

SSD ING-IND/01 Naval Architecture

University of Genoa

2014 - 2016

Researcher – RTD-A

SSD ING-IND/01 Naval Architecture

University of Genoa

2016 - 2019

Researcher – RTD-B

SSD ING-IND/01 Naval Architecture

University of Genoa

2019 - now

Associate Professor

SSD ING-IND/01 (IIND01/A) Naval Architecture

University of Genoa

EXPERIENCE

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

2018 – 2020 POR-FESR Regione Liguria

“Analysis and development of an innovative modular blade propulsor for hybrid/electric ship propulsion”

2019 – 2021 LIFE 2018 - PIAQUO

“Underwater noise impact reduction of the maritime traffic and real-time adaptation to ecosystems (LIFE-PIAQUO)” in collaboration with FINCANTIERI, CETENA, Naval Group, Kongsberg for Tasks A1.1, B1.1, B1.3 (LIFE18 ENV/FR/000308)

2022 – 2025 PNRR CN-MOST, Spoke 3

“Design of unconventional propulsors through CFD-based optimization”, Tasks 2.8.2/3

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2024 - now Editorial Board Member - “Brodogradnja”

2022 – now Editorial Board Member - “Journal of Marine Science and Engineering (ocean engineering)”

2021 – now Editorial Board Member - “Journal of Marine Science and Application”

2021 – now Editorial Board Member - “Applied Ocean Research”

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2006 Best Thesis Award (Marine Engineering and Naval Architecture, University of Genoa, class 2006) by the Royal Institution of Naval Architects

2010 Best PhD Thesis Award in Industrial Engineering XXII Cycle – University of Genoa

2021 - 2024 Member of the “ITTC Resistance and Propulsion Committee”

Development and updates of testing procedures for ship resistance and propeller performance measurements and prediction

2024 - now Chairman of the “ITTC Propulsion Committee”

Development and updates of testing procedures for propeller performance measurements and prediction

OTHER EXPERIENCES – RESPONSIBILITY OF INDUSTRIAL RESEARCH PROJECTS

2015 - 2016 Retrofit of a fishing vessel for fuel consumption optimization and reduction of pollutant emissions

Contract with CNR-ISMAR

2015 - 2017 CFD techniques for ship appendages and propellers (CFD - EliAPP)

Contract with CETENA

2017 - 2018 Design of the AUV-OEX propeller

Contract with Centre for Maritime Research and Experimentation (CMRE)

2017 - 2019 Ship self-propulsion with CFD - AUTOPROP

Contract with CETENA

2017 - 2019 Development of a software framework for ship propeller optimization - OPTIPROP

Contract with CETENA

2018 - 2021 Cavitation tunnel tests and HPC calculations for the Y-SEA project (MISE funded)

Contract with Azimut|Benetti

2019 - 2020 NEWTUB – A new software tool for ducted propeller design

Contract with CETENA

2019 - 2020 RANBETT – Development of a coupled BEM/RANSE approach for the hydrodynamic characterization of bow thrusters

Contract with CETENA

2021 - 2023 Hydrodynamic and station keeping studies for a new class of patrol ships

Contract with INTERMARINE

2021 - 2023 NAVIRIS – Development and validation of numerical procedures for ship hull shape optimization

Contract with CETENA

2022 - 2024 Hydrodynamic and station keeping studies for a new class of patrol ships – CNG-C configuration

Contract with INTERMARINE

2022 - 2024 NUMRHUI-Numerical Models for Rudder Hull Interactions

Contract with CETENA

2022 - 2023 Design of pumpjet propulsors for the SATURN EU Project

Contract with CETENA

2025 - now SubNoise: CFD tools for radiated noise predictions of submarine vessels

Contract with CETENA

OTHER EXPERIENCES

2014 - now Several design and numerical analysis activities supporting the characterization and the design of propellers, unconventional propulsors and hulls (customers: Fincantieri, CETENA, DETRA, SISTEMAR, BCS, Azimut|Benetti, SanLorenzo, RINA, Guidi)