

Silvia Donnarumma

Researcher

EDUCATION AND TRAINING

2005

High School Diploma

Scientific Highschool S.M. Immacolata

2009

BSc Naval Architecture and Marine Engineering

University of Genoa

2012

MSc Naval Architecture and Marine Engineering

University of Genoa

2016

PhD in Mathematical Engineering

University of Genoa

PROFESSIONAL HISTORY

2024 - currently

Assistant Professor

SSD IIND-01/B

University of Genoa

2021-2024

Research Fellow

SSD IIND-01/B

University of Genoa

2020

Collaborator

SSD IIND-01/B

University of Genoa

2018-2019

Postdoctoral Researcher

SSD IIND-01/B

University of Genoa

2017

Postdoctoral Researcher

SSD IINF-04/A

University of Trento

2016

Postdoctoral Researcher

SSD IINF-04/A

University of Genoa

ACADEMIC APPOINTMENTS

Since 2019

Member of the Program Board

Member of the program board for the Naval Architecture and Marine Engineering Program

University of Genoa

Since 2025

Chair of the Program Board

Chair of the program board for the Maritime Science and Technologies Program

University of Genoa

Since 2025

Member of the Doctoral Board

Member of the Board of the PhD Program in Marine Science and Technology at the University of Genoa

University of Genoa

EXPERIENCE

MAIN SEMINARS

2015 Progetto di sistemi di regolazione per posizionamento dinamico e controllo di velocità.

University of Genoa

2016 Dynamic Positioning Systems and Control of Vessels: Open Problems and Perspectives.

University of Trento

2020 Control strategies for autonomous maneuvering.

VENTuRE – WP4, T4.1: Annual Postgraduate Research Conference

University of Genoa

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

2023 – ora ARgoNautic

Progetto POR FESR 2021-2027 in cooperazione con BK srl, EES spa “The system includes the implementation of a data acquisition unit featuring an inertial platform and GNSS RTK positioning with centimeter accuracy.”

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

2019 Guest Editor

special issue “Advances in Marine Dynamic Simulation” in Journal of Marine Science and Engineering

2023 Guest Editor

special issue “Advanced Research in Sustainable and Intelligent Navigation Control Systems for Marine Vehicles” in Journal of Marine Science and Engineering

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES**2016 Certificate of Merit**

Awarded *“for the exceptional quality and originality of the content and analytical methods employed in the doctoral thesis.”*

University of Genoa

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS**2016 MARS**

POR FSE Liguria 2014 -2020 – Asse 1 Occupazione, Bando Servizi integrati per l’avvio e lo sviluppo d’impresa e dell’autoimpiego “START & GROWTH LIGURIA”

PARTECIPATION IN RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW**2013-2014 CLUSTER**

Research project FAR-MIUR “CLUSTER” in the Distretto Ligure delle Tecnologie Marine (capofila Fincantieri) - funded (2012-2015)

2016-2017 PowerLyap

Funded project from Fondazione CARITRO (Cassa di Risparmio di Trento e Rovereto) e Dana-Rexroth Transmission Systems SRL sul tema “Modern control of power-split transmissions using Lyapunov-based methods.”

2019-2022 ARES

Funded research project ARS01 00682 - Programme PON R&I 2014 - 2020 e FSC - Azione II.2 ARES (Robotica Autonoma per la nave ESTesa)

2021-2022 VENTuRe

Project “a Virtual and physical ExperimentaTowing centre for the design of eneRgy Efficient sea-fairing vessels” (VENTURE) EU Grant #: 856887 - VENTuRE - H2020-WIDESPREAD-2018-2020/H2020-WIDESPREAD-2018-03

2022 ISYPORT

Research Project PNR “Isyport– Integrated System for the Mitigation of Navigation Risks in Port Areas”, funded PON Ricerca e Innovazione 2014-2020 nell’ambito dell’Asse II “Progetti tematici”

2022 SAFENAV

NO.101077026, HORIZON-CL5-2022-D6-01-08. The project focuses on the development of a collision avoidance platform for marine navigation.

2022- ora RAISE

Research Project PNRR - Ecosistema dell’Innovazione ECS00000035 RAISE (Robotics and AI for Socioeconomic Empowerment) SPOKE 4 D.D. N. 1053 del 23.06.2022, registration dalla Corte dei Conti il 25.07.2022 n. 1970 CUP D33C22000970006 “development of monitoring and simulation systems aimed at optimizing logistics and enhancing safety in port areas”

RESPONSIBILITY IN INDUSTRIAL RESEARCH PROJECTS**2022-2023 HYDRODYNAMIC AND STATION-KEEPING ANALYSIS FOR NEXT-GENERATION VESSELS – CNG-C COASTAL CONFIGURATION**

Intermarine SpA

2023-2025 SUBMAN

Fincantieri SpA

PARTECIPATION IN INDUSTRIAL RESEARCH PROJECTS

2014-2015 ODESSA

Fincantieri NEXTECH SpA

2017-2018 e-Navigation

Fincantieri NEXTECH SpA, Fincantieri SpA, CNR-ISTI, CNR-ITIA

2017-2019 RosmanDITEN

Rosetti Marino SpA

2017-2019 BIPE

University funded project on the topic “Study of autonomous navigation logics and testing through simulation.”

2017-2019 HYDRODYNAMIC AND STATION-KEEPING STUDIES FOR NEW-GENERATION UNITS – CNG-A OFFSHORE CONFIGURATION

Intermarine SpA