Università di Genova

Giorgio Tani

Associate professor

EDUCATION AND TRAINING

2015
PhD in Naval Architecture (Academic discipline IIND-01/A)
Title of the thesis: “Experimental study of cavitating propeller radiated noise”
Università degli Studi di Genova

2011
Master’s Degree in Naval Architecture and Marine Engineering
Title of the thesis: “Simulazione numerica delle interazioni fluido-struttura per il fenomeno dello sloshing”
Università degli studi di Genova

2007
Bachelor’s Degree in Naval Architecture and Marine Engineering
Title of the thesis: “Verifica del progetto di massima di una chemical tanker da 12000 TPL”
Università degli studi di Genova

2004
High school Diploma
Scientific high school G.D. Cassini

PROFESSIONAL HISTORY

2023 - Now
Associate Professor
SSD ING-IND/01 (successively IIND01/A) Naval Architecture

2020 –2023
Research Fellow (Ricercatore a tempo determinato di tipo B, contratto ai sensi dell’art. 24, comma 3, lettera B), della Legge 30.12.2010, n. 240)
SSD ING-IND/01 Naval Architecture
Università degli studi di Genova

2016 –2020
Research Fellow (Ricercatore a tempo determinato di tipo A, contratto ai sensi dell’art. 24, comma 3, lettera a), della Legge 30.12.2010, n. 240, including extension of the contract)
SSD ING-IND/01 Naval Architecture
Università degli studi di Genova

2015 –2016
Postdoctoral researcher (Assegno di ricerca art. 22 Legge 240/2010)
Università degli studi di Genova1

2014 –2015

Università di Genova

Postdoctoral researcher (Assegno di ricerca art. 22 Legge 240/2010)
Università degli studi di Genova

ACADEMIC APPOINTMENTS

2021 - Now
Resposible of Research and Teaching activities of the IDRO laboratory of DITEN department
Università degli Studi di Genova

2019 - Now
Member of the teaching staff of the PhD course "Marine Science and Technology"
Università degli Studi di Genova

2019 - 2021
Member of the technical services commission for the DITEN department
Università degli Studi di Genova

EXPERIENCE

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

2018 - 2022
Project Detra s.r.l. – POR-FESR programme

PARTECIPAZIONE A PROGETTI DI RICERCA

2019 - 2022
PNRR: National Center for Sustainable Mobility (MOST) – Spoke 3

2019 - 2022
Project VENTuRE financed in the framework of the EU's call Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020) under the Call H2020-WIDESPREAD-2018-2020.

2019 - 2022
Project PIAQUO (Underwater noise impact reduction of the maritime traffic and real-time adaptation to ecosystems) within the EU's Life programme, project reference: LIFE18 ENV/FR/000308.

2018 - 2022
Project Y-SEA Yacht Sicuro Efficiente Avveniristico – MISE funds.

2014 - 2015
"Sviluppo di una Catena di Progetto e Ottimizzazione di Eliche Navali" (Development of the Design Tools/Strategy and Optimisation of Marine Propellers) – in the context of project ABC (Advanced Boat Concept), M.I.S.E. funds.

2014 - 2016
Project CLUSTER, DLTM – FAR-MIUR funds.

2012 - 2015

Università di Genova

European Research Project (7th Framework Program) AQUO (Achieve QUieter Oceans by shipping noise footprint reduction) Grant agreement no. 314227.

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

2015 - Now Member of the Hydro Testing Forum

INDUSTRIAL RESEARCH PROJECTS

2024 - Now AMPERO (Advanced Methods for Propeller EROsion)
Contract with Fincantieri

2020 - 2022 "Sviluppo di tecniche sperimentali e numeriche per la caratterizzazione di fenomeni cavitativi erosivi – ROOTERO" (Development of experimental techniques for the characterisation of cavitation erosion), in the framework of Fincantieri research and development plan 2018-2020
Contract with Fincantieri

2021 – 2022 "Prove al tunnel di cavitazione – Digital Ship" (Cavitation tunnel tests – Digital Ship)
Contracti with Fincantieri

2018 - 2019 "Studio dei fenomeni connessi al rumore irradiato in mare (Underwater Radiated Noise – URN) dalle navi - RUMIRR" (Stuy of phenomena related to underwater radiated noise due to ships), in the framework of Fincantieri research and development plan 2018-2020
Contract with Fincantieri

2017 - 2018 Project "Propagazione – Studio numerico sperimentale della propagazione del suono in mare" (numerical and experimental study of noise propagation at sea)
Contract with Fincantieri

2016 - 2017 Experimental tests at cavitation tunnel for hydrodynamic characteristics, cavitation phenomena, radiated noise, and induced pressures for three propellers with different pitches for the development of semiempirical models
Contract with Fincantieri

2016 - 2017 Cavitation tunnel tests for flow measurement around a ducted propeller using LDV techniques
Contract with Fincantieri

2015 Cavitation tunnel tests for feasibility assessment of 3D printing techniques for marine propeller scale models
Contract with Fincantieri

2014 - 2015 Cavitation tunnel tests for flow measurement around a ducted propeller using LDV techniques
Contract with Fincantieri

2013 - 2014 Tests of propellers in axial cylindrical tunnel for new propeller blade geometry development
Contract with Fincantieri