

# Marco Gallo

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## Profile

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I am a Marine Engineer with a Master's degree and a PhD in Electrical Engineering from the University of Genova. My research focuses on ship energy efficiency, with particular attention to both optimization problems and data-driven approaches aimed at supporting more sustainable and intelligent maritime systems.

## Education

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- **PhD in Electrical Engineering** [UniGe](#) **Genova, Italy** Jan 2022 – May 2025  
Thesis: "Development of Optimization Algorithms for Shipboard Applications"
- **MSc in Naval Architecture and Marine Engineering** ([UniGe](#)) **Genova, Italy** Mar 2019 – Oct 2021  
GPA: 28/30 - Final grade: 108/110

## Publications

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- M. Gallo, D. Kaza, F. D'Agostino, M. Cavo, R. Zaccone, F. Silvestro. "Power Plant Design for All-Electric Ships Including the Assessment of Carbon Intensity Indicator" *Energy*, 2023. [link](#)
- F. D'Agostino, M. Gallo, M. Saviozzi, and F. Silvestro, "A Model Predictive Control-Based Energy Management Strategy for Secure Operations in Shipboard Power Systems" *TTE*, 2024. [link](#)
- F. D'Agostino, M. Gallo, M. Saviozzi and F. Silvestro, "An Energy Management Strategy for an Inland Smart Port with Optimal Ferries Allocation," *IEEE PESGM*, Austin, TX, USA, 2025. (accepted)
- M. Gallo, C. M. Cooke, J. S. Chalfant, F. D'Agostino and F. Silvestro, "Linearization Techniques for Optimizing PEBB-Based Power Corridor Using Mixed-Integer Linear Programming," *AEIT HVDC International Conference*, Genova, Italy, 2025.
- M. Gallo, C. M. Cooke, J. S. Chalfant and F. D'Agostino, "A Multi-Objective Design for PEBB-Based Power Corridors in Shipboard Applications," *IEEE Electric Ship Technologies Symposium (ESTS)*, Alexandria, VA, USA, 2025.

For a complete list of publications, please refer to my ResearchGate profile: [Marco Gallo - ResearchGate](#).

## Experiences

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- **President** [Elettra APS](#) **Genova, Italy** 2024  
President and co-founder of Elettra APS, a student association designing electric boats for international competitions.
- **Visiting Student** [MIT Sea Grant](#) **MIT, Cambridge, MA** 2024  
Joined MIT Sea Grant's visiting student program (June-August 2024) to develop a PEBB sizing algorithm using Matlab/GAMS.
- **Research Internship** [Cetena S.p.A.](#) **Genova, Italy** 2023  
Worked on several research projects focused on energy system modeling and data analysis for shipboard applications.

## Programming Skills

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Matlab Programming, Simulink Modelling, GAMS, Latex (Professional); Python, Julia, DigSilent, TRNSYS (Basic knowledge).

## Communication and Interpersonal Skills

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- **Public Speaking** Comfortable speaking in public and encouraging interaction to improve workplace communication.
- **Non-verbal Communication** Skilled in reading and interpreting non-verbal cues.
- **Problem Solving** Enjoy tackling challenges to enhance technical output and workplace efficiency through technology.

## Languages

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Italian (Native), English (C1), French (A2)