

PERSONAL INFORMATION

Martina Aguiari

WORK EXPERIENCE

- 11/2020-to present **PhD Student**
University of Genoa, DITEN Department
Strategies and methods for hull weight reduction consistent with the latest developments in applicable regulations.
- 06/2018-10/2020 **Research fellow**
University of Genoa, DITEN Department
- **Project Models and methods for the behaviour of special HSLA steel in shipbuilding:** Assessment of the impact of HSLA steel use in ship design. Analysis of limit states and boundary conditions limiting the use of high strength steel in ship design. Study of the fatigue resistance of HSLA steel by conducting experimental tests.
 - **Project Hull weight reduction strategies in preliminary design phase (STRIPEPE):** analysis and comparison of main regulations for the construction of naval ships and related support software. Comparison of regulations scantling formulae and main limit states governing the structural scantling. Elaboration of a new structural scantling procedure in preliminary design phase minimizing structural weight. Development of an application to support the design methodology developed.
- 07/2019-to present **Isotraining and Servadio & Partners**
Introduction on the general principles of electrical safety, analysis of the main regulation in the electrical field, study of the effects of electrical current on the human body.
- 09/2019-12/2019 and 09/2020-12/2020 and 09/2021 to present **Teaching support for the course of Costruzione Navale "Ship Construction" COD. 56644 of the Master Degree in Naval Architecture & Marine Engineering**
University of Genoa, DITEN Department
Assisting the professor during lesson, explain the software to the students, support during the exams and member of the examination board.
- 09/2017-12/2017 **Part-time staff member**
University of Genoa, DITEN Department
Revision of leaflets for open day, reorganization and updating of the website for the Naval Engineering course.
- September 2017 and 2016 **Promotion at Salone Nautico**
Point Office Company
- Promotion of Poseidon Software for the management and administration of companies
 - Search for costumers and companies interested in using the software
- 09/2014-10/2014 **Bachelor's Degree internship**
GMG General Montaggi Genovesi
- Supervision of work on board
 - Assistance of dry dock work on board GNV vessels

ADDITIONAL INFORMATION

Publications

- M. Aguiari, C.M. Rizzo, T. Inoue: "A Fatigue Assessment Procedure for Drilling Pipes of Scientific Vessels". DOI: 10.1115/OMAE2019-96639. ASME 2019.
- M. Aguiari, C.M. Rizzo, M. Palombo: "Caratterizzazione delle prestazioni dei giunti in acciaio grado S355 e acciai bonificati per applicazioni strutturali". In Proc.s of Giornate Nazionali di Saldatura ed.10, 2019 Genova, organized by the Italian Welding Institute. (Speaker at the Conference in the session "Progettazione e valutazione di integrità di strutture e apparecchiature saldate, 31/05/2019).
- M. Aguiari, C.M. Rizzo, M. Palombo: "Performance characterization of high strength steel and quenched and tempered steels and their joints for structural applications". Welding in the World. DOI: 10.1007/s40194-020-01019-6.
- M. Aguiari, M. Gaiotti, C.M. Rizzo: "A design approach to reduce hull weight of naval ships". Ship Technology Research, DOI: 10.1080/09377255.2021.1947666
- M. Aguiari, M. Gaiotti, C.M. Rizzo: "Ship weight reduction by parametric design of hull scantling". Ocean Engineering. DOI: 10.1016/j.oceaneng.2022.112370.
- M. Aguiari, C.M. Rizzo, M.P. Salio, E. García Sánchez, S. Lazaro Rey, M. Safta, A. Nadei: "Hull girder ultimate strength assessment according to rules requirements". Marine Structure 2023. DOI: 10.1201/9781003399759-41.

Personal data

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Genova, 26/04/2023