

# Gianmarco Vergassola

Ricercatore a tempo determinato

## ISTRUZIONE E FORMAZIONE

2019

### **Titolo di Dottore di Ricerca Europeo**

Dottorato di Ricerca in Ingegneria Navale su “Analisi di strutture vetrate a bordo di super e megayacht”

Università di Genova

## ESPERIENZA ACCADEMICA

2022-oggi

### **Ricercatore a tempo determinato**

Principali argomenti di ricerca: Analisi numerica e sperimentale di strutture navali e nautiche, simulazioni numeriche di propagazione di vibrazioni a bordo

Università di Genova

2011-2022

### **Assegnista di ricerca**

Progetto “Analysis of the dynamic response of ships subjected to repeated transoceanic voyages based on real recorded data”

Università di Genova

2019-2021

### **Assegnista di ricerca**

Progetto “SILENTYACHT - Methodologies for noise and vibration reduction on yachts and superyachts through numerical models”

Università di Genova

## INCARICHI ACCADEMICI

Dal 2024

### **Titolare dell’insegnamento “Ship structure and strength”**

Docente del corso

Università di Genova

Dal 2023

### **Membro della Commissione di Orientamento di Ateneo**

Referente per il Campus della Spezia

Università di Genova

Dal 2021

### **Membro della Commissione AQ del Corso di Laurea in Ingegneria Nautica e Yacht Design**

Università di Genova

Dal 2020

**Titolare dell'insegnamento "Costruzioni Navali A"**

Docente del corso  
Università di Genova

[2021-2023](#)

**Titolare dell'insegnamento "Costruzioni Navali"**

Docente del corso  
Università di Genova

[2020-2022](#)

**Titolare dell'insegnamento "Acoustic for Hydrography"**

Docente del corso  
Università di Genova

## TITOLI

**PUBBLICAZIONI SCIENTIFICHE SU RIVISTA PEER-REVIEWED**

<https://www.scopus.com/authid/detail.uri?authorId=57191615489>

1. Barsotti B., Battini C., Gaiotti M., Rizzo C. M., Vergassola G., Experimental and numerical assessment of ultimate strength of a transversally loaded thin-walled deck structure, *Marine Structures*, 2025, doi: 10.1016/j.marstruc.2025.103793
2. Basciu F., Casali G., Maloberti L., Pais T., Vergassola G., Zaccone R., Sustainable yacht refits: Structural solutions in methanol-powered conversion, *Ocean Engineering*, 2025, doi: 10.1016/j.oceaneng.2025.120618
3. Silvestri P., Pais T., Vergassola G., The role of structural and insulating material in the structure-borne noise propagation of superyachts, *Mechanics Based Design of Structures and Machines*, 2024 <https://doi.org/10.1080/15397734.2024.2424972>
4. Silvestri P., Pais T., Vergassola G., On the experimental full scale vibrational response analysis of a large pleasure yacht, *Applied Ocean Research Vol 150 OA*, 2024 doi 10.1016/j.apor.2024.104141
5. Gaiotti M., Aguiari M., Vergassola G., Rizzo C.M., A rational approach for the scantling design of GRP pleasure crafts, *Ocean Engineering*, Vol 304 OA, 2024 doi 10.1016/j.oceaneng.2024.117866
6. Vergassola G., Pais T., Boote D., Rasori S., Tonelli A., On the structural assessment of tall ship rigs, *Ships and offshore structures*, Vol 19 Issue 8, 2024 doi 10.1080/17445302.2023.2226506
7. Boote D., Vergassola G., Fatigue collapse of ship structural components: a case study, *International Review of Mechanical Engineering*, Vol 16 Issue 2, 2022 doi 10.15866/ireme.v16i2.21757
8. Vergassola G., Pais T., Boote D., Rasori S., Tonelli A., An experimental-driven methodology for the evaluation of pre-tension of stays and shrouds for large sailing vessels, *Ocean Engineering*, doi: 10.1016/j.oceaneng.2021.109775, Vol 238, Ottobre 2021
9. Boote, D., Vergassola, G., Delfino, P., Faloci, F., Real scale measurements of yacht's mast accelerations, *Ships and Offshore Structures*, doi: 10.1080/17445302.2020.1816747, 2020.
10. Vergassola G., The prediction of noise propagation onboard pleasure crafts in the



- early design stage, *Journal of Ocean Engineering and Marine Energy*, doi: 10.1007/s40722-019-00149-4, Vol. 6, Issue 1, Febbraio 2020 pp. 15-30.
11. Vergassola G., Boote D., A simplified approach to the dynamic effective thickness of laminated glass for ships and passenger yachts, *International Journal on Interactive Design and Manufacturing (IJIDeM)*, doi: <https://doi.org/10.1007/s12008-019-00614-2> Vol. 14 Issue 1, Marzo 2020, pp. 123-135
  12. Vergassola G., Boote D. Numerical and experimental comparison of the dynamic behaviour of superyacht structure. *SHIPS AND OFFSHORE STRUCTURES*, ISSN:1744-5302,doi: 10.1080/17445302.2018.1546451, Vol.6, Issue S1 pp. S1-S8.
  13. Vergassola G., Boote D., Pais T. Hull–furniture interaction in the primary response to global loads of a carbon fibre sailing yacht. *SHIPS AND OFFSHORE STRUCTURES*, vol. 14:3, p. 281-294, ISSN: 1744- 5302, doi: 10.1080/17445302.2018.1498210
  14. Vergassola G., Pais T., Boote D. Low - Frequency analysis of super yacht free vibrations. *OCEAN ENGINEERING*, vol. 176, p. 199-210, ISSN: 0029-8018, doi: 10.1016/j.oceaneng.2019.02.037
  15. Vergassola G., Boote D., Ricci L. Static and dynamic comparison of megayacht deck structure's layouts. *INTERNATIONAL SHIPBUILDING PROGRESS*, p. 91-110, ISSN: 1566-2829, doi: 10.3233/ISP-180260
  16. Pais T., Boote D., Vergassola G., Di Iorio M. Engine foundation re- design due to modification of the shaft line arrangement. *THE TRANSACTIONS OF THE ROYAL INSTITUTION OF NAVAL ARCHITECTS. PART B, INTERNATIONAL JOURNAL OF SMALL CRAFT TECHNOLOGY*, vol. 160 (B1), p. 17-30, ISSN: 1740-0694. doi: 10.3940/rina.ijst.2018.b1.208
  17. Vergassola G., Pais T., Boote D. Numerical tools and experimental procedures for the prediction of noise propagation onboard superyacht. *THE TRANSACTIONS OF THE ROYAL INSTITUTION OF NAVAL ARCHITECTS. PART B, INTERNATIONAL JOURNAL OF SMALL CRAFT TECHNOLOGY*, vol. 160 (B1), p. 9-15, ISSN: 1740-0694. doi: 10.3940/rina.ijst.2018.b1.207
  18. Vergassola G., Boote D., Tonelli A. On the damping loss factor of viscoelastic materials for naval applications. *SHIPS AND OFFSHORE STRUCTURES*, vol. 13 (5), p. 466-475, ISSN: 1744-5302, doi: 10.1080/17445302.2018.1425338
  19. Pais T., Boote D., Vergassola G. Vibration analysis for the comfort assessment of a superyacht under hydrodynamic loads due to mechanical propulsion. *OCEAN ENGINEERING*, vol. 155, p. 310- 323, ISSN: 0029-8018, doi: 10.1016/j.oceaneng.2018.02.058
  20. Boote D., Vergassola G., Pais T., Kramer, M. Finite element structural analysis of big yacht superstructures. *INTERNATIONAL REVIEW OF MECHANICAL ENGINEERING*, vol. 11(4), p. 228-233, ISSN: 1970-8734, doi: 10.15866/ireme.v11i4.9231
  21. Boote D., Pais T., Vergassola G., Tonelli A., Gragnani L. On the damping coefficient of laminated glass for yacht industry. *INTERNATIONAL SHIPBUILDING PROGRESS*, vol. 64, p. 25-40, ISSN: 0020-868X, doi: 10.3233/ISP-170131

22. Ocera M., Boote D., Vergassola G., Faloci F. Simplified analytical method for the evaluation of longitudinal strength of large sailing yachts. OCEAN ENGINEERING, vol. 133, 2017, p. 182-196, ISSN: 0029-8018, doi: 10.1016/j.oceaneng.2016.11.064
23. Boote, D., Vergassola, G., Di Matteo, V. Strength analysis of superyacht superstructures with large openings. INTERNATIONAL REVIEW OF MECHANICAL ENGINEERING, vol. 11(1), p. 1-9, ISSN: 1970-8734, doi: 10.15866/ireme.v11i1.9289
24. Boote D., Pais T., Vergassola G., Giannarelli D. Thermal load effects on aluminum light alloy plates with epoxy coatings. THE TRANSACTIONS OF THE ROYAL INSTITUTION OF NAVAL ARCHITECTS. PART B, INTERNATIONAL JOURNAL OF SMALL CRAFT TECHNOLOGY, vol. 159 part B2, p. 89-100, ISSN: 1740-069, doi: 10.3940/rina.ijst.2017.b2.206
25. Boote D., Vergassola G., Giannarelli D., Ricotti R. Thermal load effects on side plates of superyachts. MARINE STRUCTURES, Volume 56, November 2017, p. 39-68, ISSN: 0951-8339, doi: 10.1016/j.marstruc.2017.06.002
26. Boote D., Vergassola G., Strano L. A Numerical Determination of Effective Breadth of Grp Stiffened Plates. THE TRANSACTIONS OF THE ROYAL INSTITUTION OF NAVAL ARCHITECTS. PART B, INTERNATIONAL JOURNAL OF SMALL CRAFT TECHNOLOGY, vol. 158, p. 49-61, ISSN: 1740-069, doi: 10.3940/rina.ijst.2016.b1.187
27. Boote D., Vergassola G., Comborieu A., Faloci F., Tocchi F. A simplified method for the evaluation of inertial loads on sailing yachts. THE TRANSACTIONS OF THE ROYAL INSTITUTION OF NAVAL ARCHITECTS. PART B, INTERNATIONAL JOURNAL OF SMALL CRAFT TECHNOLOGY, vol. 158, p. B101-B111, ISSN: 1740-0694, doi: 10.3940/rina.ijst.2016.b2.194

#### PUBBLICAZIONI SCIENTIFICHE SU ATTI DI CONVEGNO

1. Angelici G., Pais T., Vergassola G., Rizzo C.M., Comparison of analytical and experimental natural frequencies of a composite beam, NAV 2025, 18-20/06/2025, Messina, Italy
2. Pais T., Vergassola G., et ali. An overview of the shipbuilding labour market: the LEADERSHIP project, NAV 2025, 18-20/06/2025, Messina, Italy
3. Boote D., Vergassola G., Hydar V., Transformation of a light alloy patrol vessel into a composite pleasure yacht Proceedings of the 33rd International Offshore and Polar Engineering Conference, 16-21/06/2022, Rhodes, Greece.
4. Vergassola G., Boote D., Tocchi F., The evolution of large pleasure vessel towards a green future, Proceedings of 20th INTERNATIONAL CONFERENCE ON SHIP & MARITIME RESEARCH NAV 2022, 15-17/2022, Genova – La Spezia, Italy
5. Boote D., Vergassola G., Lindermann T., Kaending P., A procedure to evaluate the fatigue contribution to the collapse of ship structural components, Proceedings of the 32nd International Offshore and Polar Engineering Conference, 05-10/06/2022, Shanghai, China.
6. Hydar V., Boote D., Vergassola G., Pacuraru F., Seakeeping analysis of a GRP fast petrol vessel, Proceedings of the 41st International Conference on Ocean, Offshore



- and Arctic Engineering (OMAE2022), 05-10/06/2022, Hamburg, Germany,
7. Gaiotti M., Vergassola G., Pais T., A strategy for the reduction of structural weight of composite vessels, Proceedings of the 41st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2022), 05-10/06/2022, Hamburg, Germany,
  8. Boote D., Gaggero T., Pais T., Rizzuto E., Vergassola G., Underwater Radiated Noise from large pleasure crafts, Proceedings of the 28th International Congress on Sound and Vibration, 24-28/06/2022, Singapore
  9. Boote D., Vergassola G., Hydar V., Mitolo S., Structural re-design of a composite pleasure craft with direct and numerical calculations, 8th International Conference on Marine Structures (MASTRUCT 2021) 7 - 9 June 2021, Trondheim, Norway.
  10. Vergassola G., Boote D., Falcinelli L., The preliminar design of rubber mounted pillars for pleasure and passenger yachts, 5th International Conference on Marine Technology and Engineering (MARTECH 2020), 16-19/11/2020, Lisbon, Portugal.
  11. Vergassola G., Boote D., Rasori S., Tonelli A., A novel approach for the determination of the pre-tension of stays and shrouds for large sailing vessels, 26th International HISWA Symposium on Yacht Design and Yacht Construction, 16-17 November 2020, Amsterdam, The Netherlands
- Vergassola G., Boote D., Pais T., Ogano F., Paci L. On the racking assessment of pure car truck carrier vessel. Proceedings of the 29th International Offshore and Polar Engineering Conference, Honolulu, Hawaii, 16-21/06/2019
12. Vergassola G., Boote D., Manca C. Buckling numerical analysis of stiffened cylindrical structures. Proceedings of the 29th International Offshore and Polar Engineering Conference, Honolulu, Hawaii, 16- 21/06/2019
  13. Vergassola G., Boote D., Kaung A. H. The prediction of noise propagation onboard superyacht. In: 25th International Hiswa Symposium on Yacht Design and Yacht Construction, Amsterdam, 12- 13/11/2018
  14. Vergassola G., Boote D. An overview of critical parameters in the noise propagation of megayachts. ESI Marine SIG 2018, La Spezia, 26- 27/09/2018
  15. Vergassola G., Boote D. Numerical and experimental comparison of the dynamic behaviour of superyacht structure. In: International Conference on Ships and Offshore Structures ICSOS 2018., Gothenburg, 17-19/09/2018
  16. Vergassola G., Boote D., Pais T., Ricci L. On the Deck Structural Layout of Megayacht. 19th International Conference on Ships and Maritime Research (NAV 2018) – Trieste, 20-22/06/2018.
  17. Tonelli A., Torre D., Vergassola G., Boote D. Numerical tools and experimental activities for the prediction of noise propagation on board superyachts. In: Design and Construction of Super & Mega Yachts. p. 27-36, The Royal Institution of Naval Architects, ISBN: 978-1-909024- 65-6, Genova, 10-11/05/2017
  18. Pais T., Boote D., Vergassola G. The influence of added mass in superyacht vibration. In: Design & Construction of Super & Mega Yachts. p. 37-44, The Royal Institution of Naval Architects, ISBN: 978- 1-909024-65-6, Genova, 10-11/05/2017
  19. Costa V., Boote D., Vergassola G., Pais T., Ferrari A., Sugalski, K. WFSV-PL -an hybrid carbon composite wind farm supply vessel. In: Proceedings of the 27th

- International Offshore and Polar Engineering Conference. p. 586-594, Society of Petroleum Engineers, ISBN: 9781880653975, San Francisco, 25-30/06/2017
20. Boote D., Vergassola G. Local and Global Analysis of Large Motoryacht Superstructure. In: 24th International Hiswa Symposium on Yacht Design and Yacht Construction. p. 1-16, ISBN: 978-94-6186-749-0, Amsterdam, 14-15/11/2016
21. Giannarelli D., Boote D., Pais T., Vergassola G., Penco G. Mechanical behavior of steel plates with epoxy coatings exposed to thermal loads. In: Design and Construction of Super & Mega Yachts. p. 65-76, The Royal Institution of Naval Architects, ISBN: 978-1-909024-40-3, Genova, 12-13/05/2015.

**RESPONSABILITÀ SCIENTIFICA PER PROGETTI DI RICERCA INTERNAZIONALI E NAZIONALI, AMMESSI AL FINANZIAMENTO SULLA BASE DI BANDI COMPETITIVI CHE PREVEDANO LA REVISIONE TRA PARI**

**Dal 2023** Progetto Learning European Alliance for Digital, Environmental and Resilient Shipbuilding - LeaderSHIP, project number n.10111159  
Progetto finanziato da EU Erasmus

**INCARICHI DI INSEGNAMENTO O DI RICERCA (FELLOWSHIP) PRESSO QUALIFICATI ATENEI E ISTITUTI DI RICERCA ESTERI O SOVRANAZIONALI**

**2021** Visiting professor presso University of Liege (Belgio)  
Teaching unit "Integrated Project in Ship Design"  
University of Liege

**2020** Visiting professor presso University of Liege (Belgio)  
Short course "Super Yacht Design: Numerical modelling for vibration and noise prediction"  
University of Liege

**2017** Guest lecturer presso Technische Universität Hamburg (TUHH) (Germania)  
Seminar "Super Yacht application of Ship Vibration"  
University of Liege

**DIREZIONE O PARTECIPAZIONE A COMITATI EDITORIALI DI RIVISTE, COLLANE EDITORIALI, ENCICLOPEDIA E TRATTATI DI RICONOSCIUTO PRESTIGIO**

**Dal 2020** Membro dell'editorial Board di Ships and Offshore Structures

**PREMI E RICONOSCIMENTI PER L'ATTIVITÀ SCIENTIFICA, INCLUSA L'AFFILIAZIONE AD ACCADEMIE DI RICONOSCIUTO PRESTIGIO NEL SETTORE**

**2018** Austin Farrar Award  
miglior pubblicazione su argomenti relativi a piccole imbarcazioni nel 2017 nelle RINA Transaction per l'articolo "A simplified method for the evaluation of inertial loads on sailing yachts"  
Royal Institution of Naval Architects

**2017** Jeom Paik Award  
Miglior pubblicazione su argomenti strutturali pubblicata nel 2016 nelle RINA Transaction per l'articolo "A numerical determination of effective breadth of GRP stiffened plates"  
Royal Institution of Naval Architects



**Università  
di Genova**