



## Massimo Corradi

Associate professor

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### *Education and training*

1978

#### **Degree in architecture**

Shape optimization study for minimum weight structures - 110/110 lode e dignità di stampa

Università di Genova - Genova - IT

1973

#### **High school degree**

50/60

Liceo Scientifico M.L. King - Genova - IT

### *Academic experience*

2001 - ONGOING

#### **Associate professor of History of Science and and Construction Techniques - SSD M-STO/05**

Università di Genova - Genova - IT

1990 - 2001

#### **University researcher of Structural Mechanics - SSD ICAR/08**

Università di Genova - Genova - IT

1985 - 1989

#### **Adjunct professor of Structural Mechanics - SSD ICAR/08**

Università di Genova - Genova - IT

1978 - 1979

#### **Researcher**

CE.TE.NA. (Centro per gli Studi di Tecnica Navale) - Genova - IT

1978 - 1979

#### **Research fellow practical exercises for students at the Chair of Structural Mechanics Faculty of Architecture conferred in accordance with art. 23 of the law 24.2.1967 n. 62**

Università di Genova - Genova - IT

Chair of Structural Mechanics

## *Work experience*

1985 - 1990

### **Professor of Structural Mechanics**

Istituto Tecnico per Geometri Palazzi - Genova - IT

1988 - 1990

### **Lecturer/Professor**

Scuola Edile Genovese / Regione Liguria - Genova - IT

## *Language skills*

### **French**

Independent

### **English**

Independent

## *Postgraduate research and teaching activity*

### **Supervision of PhD students, residents and post-doctoral fellows**

Rapporteur and against supervisor of doctoral thesis at:

PhD in 'Histoire des sciences' - Faculté des sciences de l'Université catholique de Louvain (Belgique)

PhD in 'Philosophy' - Open University of London (Great Britain)

PhD in 'Estructuras de la Edificación' - Escuela Tecnica Superior de Arquitectura, Escuela Politecnica de Madrid (España)

## *Research interests*

History of science and techniques.

History of engineering and structural mechanics.

History of naval science and shipbuilding.

Static and mechanical of arches, vaults and domes.

Static restoration and structural rehabilitation of historic and monumental buildings.

Vernacular architectures and construction techniques that use poor materials (earth-raw: adobe, pisé, torchis, bauge, straw and hemp, bamboo and natural fibers, wood, stone, etc.).

## *Grants*

2018 - ONGOING

### **Art of building and aesthetics in naval iconography from the Middle Ages to the modern age.**

Università di Genova - IT

Principal investigator

The objective of the research is to identify a path for understanding the evolution of art, science and shipbuilding through the study and analysis of the vast artistic and documentary heritage in a strict sense (images and representations in manuscripts), treaties, encyclopaedias, prints, etc.). The research will be carried out on a paradigmatic compendium of topics, subjects, images, illustrations, documents, texts, and so on, which allow the curious reader to understand the development of shipbuilding from the Middle Ages to the modern age, through the different and distinct paths of development that have characterized and intersected the evolution of ancient ships, on the one hand, and the entry of new technologies in modern age on the other, until the dawn of the contemporary age.

In particular, the following topics will be addressed and discussed:

- The imaginary museum of ancient navy: as the naval iconography describes a precious heritage of testimonies on the evolution of shipbuilding, albeit mediated by the artist's interpretation.
- Figurative arts and representation in shipbuilding: the description, classification and interpretation of the form and construction of vessels depicted in works of art from the Middle Ages to the modern age.
- The evolution of naval iconography: figurative representation seen as a documentary source for a history of naval art.
- The iconography in the works of the Renaissance, as a 'cultured' representation of art and shipbuilding.
- Naval art and science: a critical 'reading' of images that aims to explore the technical-scientific evolution of shipbuilding.
- A comparison between artistic representation and technical drawing: cultural and scientific aspects. A parallel between genre painting and technical treatise transmission tools of the evolution of shipbuilding starting from the Industrial Revolution. The approach of Aby Moritz Warburg (1866 - 1929) beyond the aesthetic dimension of the work of art: lexical tools and scientific literature to identify the subjects represented and interpret the meaning of the representations, with reference to all the images, works of artists recognized or popular recordings, scientific treatises, encyclopedias and popular publishing in the contemporary age (eg *Popular Mechanics Magazine*, *Scientific American*, *The Engineer*).

## ***Editorial activity***

Editor of the *Entre Mècanique et Architecture* series published by Birkhäuser (Basel) and Kim Williams Books (Turin).

## ***Assignments abroad***

**Visiting Professor:** Faculty of Sciences at the Université Catholique de Louvain (Belgique), Open University of London (Great Britain), Université de St. Etienne (France), Universidade de Brasilia (Brasil), School of Art and Architecture - Shiraz University (Iran), Art University of Isfahan (Iran).

**Lecturer:** Universidad Nacional Autónoma de México / Patzcuaro (Mexico), PhD in 'Structural Engineering', Faculty of Engineering of the University of Pisa; College of Engineers of Tuscany, Florence; Iranian Architecture Center, Tehran (Iran).

**Professor in charge:** I.U.A.V. (Istituto Universitario di Architettura di Venezia).

Scholarship holder for updating abroad at the Ecole Polytechnique (Paris) and the Bibliothèque Nationale de France (Paris).

**Member of the Academic Board:** PhD in 'Histoire des sciences' at the Faculty of Sciences of the Université catholique de Louvain (Belgique), PhD in 'Philosophy' at the Open University of London (Great Britain), HDR in Sciences Humaines et Sociales at the Université de St. Etienne (France), PhD in Architecture and Design (University of Genoa), PhD at Escuela Tecnica Superior de Arquitectura, Escuela Politecnica de Madrid (España).

### *Other professional activities*

1983 Scientific and research collaboration with the Central Institute for the Catalog and Documentation of the Ministry for Cultural and Environmental Heritage.

1984 Scientific and research collaboration with the Superintendency for Environmental and Architectural Heritage of Liguria.

1984-85 Consultant of the Geographical Institute De Agostini of Novara S.p.A.

1985-96 Scientific consultant for the Fincantieri Company - Cantieri Navali Italiani S.p.A.

1989-90 Scientific consultant SIDERCAD (ILVA Group S.p.A. - Genova).

1996-96 Scientific consultant of the Sestri Cantiere Navale S.p.A. - Genoa (Fincantieri S.p.A. Group - Trieste).

2002 Collaborator of the Institute of the Italian Encyclopedia (Treccani).