

CURRICULUM VITAE



PERSONAL DATA

Name **VINCENZO MALLARDO**
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Nationality **ITALIAN**

EDUCATION

1993 **GRADUATED IN CIVIL ENGINEERING WITH FULL MARKS AND HONOURS**
University of Naples “Federico II” – Italy

1993-1996 **PhD in Structural Engineering**
DIST - Dipartimento di Strutture per l’Ingegneria e l’Architettura (Department of Structures for Engineering and Architecture)
University of Naples “Federico II” – Italy

PRESENT AND PREVIOUS POSITIONS

Since Dec 2021 **FULL PROFESSOR IN STRUCTURAL ANALYSIS**
Department of Architecture
University of Ferrara (Italy)

• April 2016 – Nov 2021 **ASSOCIATE PROFESSOR IN STRUCTURAL ANALYSIS**
Department of Architecture
University of Ferrara (Italy)

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Nov 1999 – Mar 2016 **LECTURER IN STRUCTURAL ANALYSIS**
Department of Architecture
University of Ferrara (Italy)

• Jun 2015 - Jul 2015 **RESEARCH ASSOCIATE (FELLOWSHIP)**
Department of Aeronautics
Imperial College London - UK

• Feb 2011 - Jul 2011 **RESEARCH ASSOCIATE (FELLOWSHIP)**

Department of Aeronautics
Imperial College London - UK

• Sept 2007 - Dec 2008

RESEARCH ASSOCIATE (FELLOWSHIP)

Department of Aeronautics
Imperial College London - UK

• 1998 - 1999

POST-DOCTORAL RESEARCH FELLOW

University of Ferrara – Italy

• 1996 - 1998

RESEARCH FELLOW

DIST - Dipartimento di Strutture per l'Ingegneria e l'Architettura (Department of Structures for Engineering and Architecture)
University of Naples "Federico II" – Italy

RECENT RESEARCH GRANTS

October 2019 - 2021

PRINCIPAL INVESTIGATOR

Project: 864154 – MASCOT (Modular multilevel cost Analysis Software for COmposite smarT fuselage)

Horizon 2020 Framework Programme

Call H2020-CS2-CFP09-2018-02

Topic: JTI-CS2-2018-CFP09-AIR-02-76 – Cost analysis software platform for evaluating innovative manufacturing technology for SMART fuselage.

Type of action: Research and Innovation Action (RIA)

€ 400000

• 2017 - 2018

COORDINATOR

Monitoring and control of the vibrations induced by road traffic on artistic artefacts and finings

Call for the Scientific Research Financing - FIR 2017 – University of Ferrara

€ 4300

• 2016 – 2017

COMPONENT

Advanced mechanical modeling of new materials and structures for the solution of 2020 Horizon challenges

Sponsored by the Italian Ministry of the University (PRIN 2015 PE8 Code: 2015JW9NJT)

Allocated budget: € 658840,00

• 2016 – 2017

COORDINATOR

Smart monitoring of Artistic elements

Sponsored by Chamber of Commerce in Ferrara (Italy)

With the involvement of local enterprises (LiFE Laboratori Ingegneria Ferrara s.r.l.)

Allocated budget: € 12100

• 2013 - 2014

COORDINATOR OF THE FERRARA UNIT

Structural Advisor for the Restoration of the roof on the Church of the Nativity in

Bethlehem (Israel)
Sponsored by the Palestinian National Authority
Allocated budget: \$ 50000

- **2010 – 2012** **COORDINATOR**
Smart Health monitoring and Control applied to Cultural Heritage (SHIC)
Joint Research Project within the executive Program of Cooperation in the field of Science and Technology between Italy and Japan
Research area: Technologies applied to Cultural Heritage (TCH)
Sponsored by the Italian Foreign Ministry
Travel and lodge expenses

- **2010 – 2011** **COMPONENT**
Survey, Assessment Study and Conservation plan for the Church of the Nativity in Bethlehem (Israel)
Sponsored by the Palestinian National Authority
Budget: \$ 313000

- **2008 – 2009** **COMPONENT**
Boundary Element Method in time-dependent problems
Sponsored by the Italian Ministry of the University (PRIN 2007 Area 01)
Budget: € 28520

- **2006-2007** **COMPONENT**
IMProve multiple Risk Evaluation and Structural Safety in the historical part of Valparaiso – Chile (IMPRESS)
Sponsored by the Inter-American Development Bank (IADB)
Budget: \$ 50000

RECENT NATIONAL GRANTS

- **2013-2014** **COMPONENT**
Methods of investigation, knowledge and qualification of the Cultural Heritage damaged by the 2012 Emilia Romagna earthquake
Sponsored by the University of Ferrara
Budget: € 6958

- **2011-2012** **COMPONENT**
Seismic behaviour of ancient masonry towers in the coastline of the Po river
Sponsored by the University of Ferrara
Budget: € 1019

- **2010-2011** **Component**
Development of settlement models for the recovery of contaminated sites
Sponsored by the University of Ferrara
Budget: € 8054

- **2008-2009** **COMPONENT**
The structural vulnerability of the historical City Centers in urban planning

Sponsored by the University of Ferrara
Budget: € 1832

• 2007-2008

COMPONENT

The structural rehabilitation of the Auditorium of the Conservatory in Ferrara
Sponsored by the *Cassa di Risparmio* Bank in Ferrara
Budget: € 6000

•2006- 2009

COMPONENT

Structural Advisor for the Municipality of Ferrara
Sponsored by the Municipality of Ferrara
Budget: € 30000 per year

**PERIODS OF RESEARCH
ABROAD**

• 10/6/2015 - 15/7/2015

Research Associate

Department of Aeronautics – Imperial College London (UK)

• 10/6/2012 - 22/6/2012

Visiting Researcher

Department of Mechanical Science and Engineering – Nagoya University (J)

• Sept 2007 - Dec 2008

Research Associate

Feb 2011 – Jul 2011

Research Associate

Department of Aeronautics – Imperial College London (UK)

• 12/6/2005 - 26/6/2005

Visiting Researcher

Department of Mechanics – Czech Technical University – Prague (CZ)

• Sept 2003 – Oct 2003

Visiting Researcher

Queen Mary College – University of London (UK)

• 1/12/1999 - 1/6/2000

Visiting Researcher

Queen Mary College – University of London (UK)

• Sept 1995 – Aug 1996

PhD student

Wessex Institute of Technology – Southampton (UK)

SUPERVISION (BACK TO 2005)

Since 2023 member of the Scientific Board of the National PhD in Defense against natural risks and ecological transition of built environment hold in the University of Catania

Since 2013 member of the Scientific Board of the PhD in Architecture and Urban Planning hold in the University of Ferrara

Either External supervision (five) or supervision of Master/PhD thesis (more than 10):

University of Ferrara
University of Naples "Vanvitelli"
University of Palermo
Polis University Tirana
Imperial College London

EDITORIAL BOARD AND REVIEWER ACTIVITY

Member of the Editorial Board of:

- *European Journal of Computational Mechanics (Scopus)*

Member of the Scientific Committee of RemTech Expo Geosismica

Reviewer of the following international journal

- *Advances in Structural Engineering (since July 2007)*
- *Aerospace Science and Technology (since July 2012)*
- *Computer Methods in Applied Mechanics and Engineering (since 2014)*
- *CMES - Computer Modeling in Engineering & Sciences (since June 2006)*
- *Computers and Mathematics with Applications (since April 2017)*
- *Engineering Analysis with Boundary Elements (since January 2011)*
- *Engineering with Computers (since January 2009)*
- *Engineering Structures (since December 2013)*
- *European Journal of Computational Mechanics (since September 2014)*
- *Journal of Multiscale Modelling (since June 2008)*
- *Meccanica (since December 2014)*
- *Structural Durability & Health Monitoring (since January 2008)*
- *Structural and Multidisciplinary Optimization (since July 2013)*
- *Structural Engineering and Mechanics An International Journal (since October 2009)*
- *Shock and Vibration (since October 2009)*

PUBLICATIONS (LIST AT THE END)

Author or co-author of 50 papers in indexed international journals. H-index 18

(SELECTED) INVITED LECTURES

19-20/03/2010 - Department of Mechanical Engineering- University of Salerno (I)
Noise control in the aircraft cabin.
The Fast Multipole Method in wave propagation.

1/10/2009 and 5/11/2009 – National Architects Association (Italy)
Safety level and limit states in Civil Engineering.
Masonry Buildings in seismic areas.

3/12/2008 - Imperial College London UK
Flaw identification and damage analysis by integral equations.

23/9/2005 – Institute for Structural Analysis – Technical University of Graz (A)
The Boundary Element Method in nonlinear mechanics: application to nonlocal damage mechanics.

16/5/2005 – Department of Mechanics - Czech Technical University in Prague (CZ) –
The Boundary Element Method in nonlinear mechanics: some applications in flaw identification and in damage mechanics.

PROFESSIONAL QUALIFICATIONS AND ACADEMIC MANAGEMENT EXPERIENCES

In 2019 and 2023 Component and President of the Committee for the enrolment to the Architect Professional Register in Italy.

Since 2022 President of the Students-Teachers Committee for the control of the Courses – Department of Architecture University of Ferrara

In 2019 and 2021 Component and President of the Committee for the candidates to the first year in Architecture Unife.

Since 2010 component of Committees for scholarships and lectureships at the University of Ferrara.

Since June 2018 member of the Steering Committee of the Center: Development of Integrated Automatic Procedures for Restoration of Monuments D.I.A.P.Re.M.

June 2012: Participation to the Structural Assessment Operations carried out in the towns of Modena and Ferrara (Italy) damaged by the earthquake of the 20th and 29th May 2012.

April 2009: Participation to the Structural Assessment Operations carried out in the city of L'Aquila (Italy) damaged by the earthquake of 6 April 2009

Since January 2007 registered member of the GLIS (Gruppo di Lavoro Isolamento Sismico, Seismic Isolation Group)

Since 2001 admitted to the Local (Ferrara) Court Register as Structural Engineer Advisor (in charge of Civil Cases on: analysis of the structural damage provoked by differential settlement of masonry buildings; structural, thermal and acoustic standard assessment in civil structures).

October 1997: Participation to the Structural Assessment Operations carried out in Umbria and Marche (Italian regions) damaged by the earthquake of 26 September 1997

Since March 1994 registered member of the National Engineers Association

July 1993 – July 1994: Military service at the Technical Military Office in Naples as Sub-lieutenant (Corps of Engineers).

April 1993 – July 1993: Military service at the Naval Academy (Livorno, Italy) as Midshipman

TEACHING

Since 2024

Conceptual Design of Structures in Architecture (20 hours, in English)
Department of Architecture – University of Ferrara

Since 2024

Structural analysis of Cultural Heritage (16 hours)
Master in “Restoration, renovation and valorization of Cultural Heritage”
Department of Architecture – University of Ferrara
Polis University Tirana

Since 2021

Scienza delle Costruzioni (Continuum mechanics and Beam theory)
(90 hours – Third year)
Department of Architecture – University of Ferrara

2020-2023

Structural Control (20 hours – Fifth year)
Inside the Laboratory of Technology up to a.a. 2023/24
Department of Architecture – University of Ferrara

Since 2014

Collapse mechanisms and nonlinear analysis applied at Masonry Structures (24 hours)
Master in Seismic Improvement and Restoration of the Historical and Monumental Structures.
University of Ferrara – Italy with other Italian Universities

2003-2010

Seismic Design of Buildings (60 hours - Fourth year)
Department of Architecture – University of Ferrara – Italy

Since 2000

Statics (90 hours – Second year)
Department of Architecture - University of Ferrara – Italy

1993 – 1997

Continuum Mechanics (120 hours - Third year)
Faculty of Engineering - University of Naples “Federico II” – Italy

Ferrara, January 2025

Vincenzo Mallardo