



## Federica Tubino

Associate professor

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### *Education and training*

2003

#### **PhD in Structural and Geotechnical Engineering**

Wind Actions on Long-Span Bridges

University of Genoa - Genoa - IT

1999

#### **Degree in Civil Engineering**

Seismic response of multi-supported structures

University of Genoa - Genoa - IT

### *Academic experience*

2016 - ONGOING

#### **Associate Professor in Structural Mechanics**

University of Genoa - Genoa - IT

2008 - 2016

#### **Assistant Professor in Structural Mechanics**

University of Genoa - Genoa - IT

### *Teaching activity*

Since 2016: Dynamics of Structures II, University of Genoa.

Since 2015: Solid Mechanics, University of Genoa.

2011-2015: Strength of Materials and Theory of structures, University of Genoa.

2009-2015: Statics, University of Genoa.

### *Postgraduate research and teaching activity*

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

Nguyen Huy Cung. Aerodynamic and aeroelastic analysis of complex structures, Genoa University, 24th Cycle, 2009-2012.

#### **PhD committees membership**

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Since 2017: Research Doctorate School of Civil, Chemical and Environmental Engineering at the University of Genoa

Since 2017: Member of the Board of the PhD Programme in Civil, Chemical and Environmental Engineering, University of Genoa.

Since 2014: Member of the Curriculum Committee in Structural and Geotechnical Engineering, Mechanics and Materials, PhD Program in Civil Chemical and Environmental Engineering, University of Genoa.

#### **Final Examination Committee**

2016: Member of the Doctoral Final Examination Committee, PhD Programme in Structural, Seismic and Geotechnical Engineering, Milan Polytechnic.

2016: Member of the Doctoral Final Examination Committee, PhD Programme in Aerospace Engineering, University of Pisa.

### **Postgraduate (PhD) teaching activity**

2006: Dynamic analysis of structures, Rose School (European School for Advanced Studies in Reduction of Seismic Risk), Teaching assistant and lecturer for graduate and PhD students.

### ***Research interests***

My main research interests deal with deterministic and random structural dynamics and wind engineering. The following three lines of research can be identified:

Wind Engineering: Wind field modelling and simulation, modelling of wind actions on structures, aeroelastic instability of structures:

Human-induced vibrations on footbridges: Monte Carlo simulations for serviceability analyses, introduction of simplified random load models for human-induced forces and dynamic response, human-structure interaction, vibration control through tuned mass dampers;

Introduction of linear and nonlinear mono-dimensional reduced-order models for schematizing the dynamics of high-rise buildings.

### ***Grants***

**2015**

#### **Simplified models for the dynamic analysis of structures**

University of Genoa - IT

Principal investigator

**2014**

#### **Stability and control of the dynamic response of flexible structures**

University of Genoa - IT

Participant

**2013**

## **Dynamics and Stability of flexible structures**

University of Genoa - IT

Principal investigator

2012 - 2014

## **Dynamics stability and control of flexible structures**

MIUR University of Genoa - IT

Participant

2008 - 2009

## **Actions dynamic response and reliability of structures subjected to natural and anthropic phenomena modelling and experimentation**

MIUR University of Genoa - IT

Participant

2006 - 2007

## **Dynamic response and monitoring of structures and models exposed to wind**

MIUR University of Genoa - IT

Participant

2004

## **The safety of structures under wind actions**

Italian National Research Council (CNR) - IT

Participant

2003 - 2004

## **Dynamics experimentation and safety of structures to wind**

MIUR University of Genoa - IT

Participant

2003

## **The safety of structures under wind actions**

Italian National Research Council (CNR) - IT

Participant

## ***Editorial activity***

Since 2015 : Member of the editorial board of the Journal Shock and Vibration (Hindawi).

Since 2018 : Member of the editorial board of Mathematical Problems in Engineering (Hindawi).