

# Raffaele PUCINOTTI



## Current position

Associate Professor of Structural Engineering  
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## Curriculum vitae

- ❖ October 1991: Degree in Civil Engineering at Naples University with the voting 110/110 and praise;
- ❖ November 1992: District of Calabria fellowship to spend a period of study in a Calabrian University;
- ❖ November 1992 – November 1993: study and research period at the *Department of Civil Engineering, Mediterranean University of Reggio Calabria*;
- ❖ November 1992 – January 1997: technical responsible of the Laboratory of Structural Engineering of Faculty of Engineering of Mediterranean University of Reggio Calabria, devoted to Experimental Activities;
- ❖ February 1997 – October 2002: Technical Director of the Laboratory of Structural Engineering of Faculty of Engineering at Mediterranean University of Reggio Calabria devoted to Teaching Activities;
- ❖ June 1996 – August 1996: Visiting researcher at the Departamento de Engenharia Civil e Arquitectura (DECivil), Instituto Superior Técnico at Universidade Técnica de Lisboa (under the guide of prof. L. Calado);
- ❖ September 1998 *PhD* in Structural Engineering at University of Catania. Thesis title: "I Collegamenti nelle Strutture in Acciaio: analisi Teoriche e sperimentali";
- ❖ November 2002: Assistant Professor in Structural Engineering, at the Mediterranean University of Reggio Calabria;
- ❖ BoD member of Italian Society for Non-Destructive Testing (AIPnD).
- ❖ Visiting researcher at the Department of Civil, Environmental and Mechanical Engineering, University of Trento. He has participated in various research activities conducted, under the scientific guide of the prof. O.S. Bursi and of the prof. R. Zandonini.
- ❖ January 2022 Associate Professor in Structural Engineering, at the Mediterranean University of Reggio Calabria;

## **Teaching, research and review activities**

### ***Teaching***

- ❖ 2003 – 2011 and 2014 - present: Analysis and Design of Reinforced and Prestressed Concrete Structures and Analysis and Design of Steel Structures at the Faculty of Engineering of the Mediterranean University of Reggio Calabria;
- ❖ 2004 - 2008 and 2010-2012: Analysis and Design of Bridges at the Faculty of Engineering of the Mediterranean University of Reggio Calabria;
- ❖ 2004 - 2005: Structural Reliability at the Faculty of Architecture of the Mediterranean University of Reggio Calabria;
- ❖ 2003 - 2004: Composizione e confezionamento di Malte e Calcestruzzi di Cemento; Indagini distruttive e prove di Laboratorio su Malte e Calcestruzzi di Cemento; Indagini non distruttive sulle strutture. IFTS Specialization Corse;
- ❖ 2005 – 2006: The Structural Deterioration Assessment of “Ancient” R/C Structures by in situ NDT and Non Destructive Testing in the Valuation of Reinforced Concrete Structural Degradation, Master on Valorization of Architectonic and Environmental Patrimonies.
- ❖ 2012-2013: Constructions in Seismic Areas at the Mediterranean University of Reggio Calabria;
- ❖ 2015-present: Special Structures in Civil Engineering at the Mediterranean University of Reggio Calabria;

### **Research Topic and Activities**

- ❖ Theoretical and experimental analysis on the rotational behaviour of steel beam-to-column joints subjected to monotonically and cyclic actions;
- ❖ Theoretical and experimental analysis o steel-concrete composite structures subjected to quasi-static cyclic actions;
- ❖ Non-destructive in situ testing and ND in situ strength assessment of concrete;
- ❖ Experimental analysis of the lateral pedestrian-induced mechanisms of excitation of footbridges;
- ❖ Assessment of in situ concrete strength;
- ❖ Application of radar technology to reinforced concrete;
- ❖ Seismic performance of composite beam-to-column joints;
- ❖ Post-earthquake fire of composite beam-to-column joints;
- ❖ Performance-based design of steel-concrete composite Buildings;
- ❖ Assessment and reduction of the seismic risk of reinforced concrete buildings;
- ❖ Seismic vulnerability of Reinforced concrete structures.

### **Affiliation and Membership**

- ❖ Member of the Dipartment PAU – Meditarranean University of Reggio Calabria – Italy;
- ❖ Member of the Doctoral School in Urban Regeneration and Economic Development, University Mediterranea of Reggio Calabria, Italy;
- ❖ Member of Italian Society for Non-Destructive Testing (AIPnD).
- ❖ Member of Italian Society CTA (Collegio dei Tecnici dell’Acciaio).

### **Review and peer reviewer's activities**

The review activities regard the following journals:

- ❖ ACI-Materials Journal;
- ❖ ACI-Structural Journal;
- ❖ Steel and Composite Structures (Techno Press);
- ❖ Journal of Constructional Steel Research (Ed. Elsevier);
- ❖ Construction and Building Materials (Ed. Elsevier);
- ❖ Engineering Structures (Ed. Elsevier);
- ❖ Journal of Structural Engineering (ASCE);
- ❖ The Structural Design of Tall and Special Buildings;
- ❖ Arabian Journal for Science and Engineering;
- ❖ Structures (Ed. Elsevier);
- ❖ Journal of Zhejiang University-SCIENCE A (Spreinger)
- ❖ Soil Dynamics and Earthquake Engineering (Ed. Elsevier);
- ❖ Advances in Structural Engineering;
- ❖ Case Studies in Construction Materials (Ed. Elsevier);
- ❖ Disaster Advances.
- ❖ Applied Sciences - Open Access Journal

### **Editor activities**

- 2005 - Co-Editor, with Ricciardelli F., de Grenet E.T., Pizzimenti A.D., of the monograph “Atti dell’8° Convegno Nazionale di Ingegneria del Vento”, ISBN 88-548-0043-0.
- 2005 Author and Editor of the book "Patologia e diagnostica del cemento armato (Indagini non distruttive e carotaggi nelle opere da consolidare)" - Dario Flaccovio (PA);
- 20012 Author and editor, with O.S. Bursi and G. Zanon, of the book "Progettazione di giunzioni e strutture tubolari in acciaio" - Dario Flaccovio (PA);
- 2016 Member of the Editorial Team of MAYFEB Journal of Civil Engineering;
- 2018 Member of the Editorial Board of The Open Materials Science Journal.