
PROF. ING. GIUSEPPINA UVA, PhD

Full Professor of Structural Engineering

SSD ICAR 09 – “Tecnica delle Costruzioni”

Department DICATECh – Polytechnical University of Bari

CURRICULUM VITAE ET STUDIORUM

Table of contents

1. PERSONAL INFORMATION	3
2. CURRENT ACADEMIC POSITION AND ASSIGNMENTS	3
3. PREVIOUS ACADEMIC POSITIONS AND EXPERIENCE	3
3.1. Academic history	3
3.2. Academic qualifications	4
3.3. Scientific Qualifications.....	5
3.4. Prizes.....	6
3.5. Specific professional experience characterised by research activity.....	6
3.6. Other qualifications	7
4. EDUCATION AND STUDIES.....	7
4.1. Education and technical studies	7
4.2. Workshops and short advanced courses	8
5. TEACHING ACTIVITY	8
5.1. Academic teaching assignments	8
5.2. Teaching support and mentoring	10
5.3. External teaching and advanced training activities	11
5.4. Teaching in International Master Courses.....	13
5.5. Scientific Supervision of MSC Theses and Master Theses	13
5.6. Activity within PhD schools.....	17
6. SCIENTIFIC ACTIVITY.....	19
6.1. Keywords and main research topics	19
Keywords 19	
Main Research Topics 19	
6.2. Research Activity.....	20
6.3. Scientific Responsibility in research grants.....	22
6.4. Research Projects and Contracts	23
Responsibility 23	
Participations 25	
6.5. Scientific Committees, Conference Organisation, Workshops and Mini-symposium	26
6.6. Activity as a reviewer for international journals.....	27
6.7. Activity as a chairman	27
6.8. Invited Lectures workshops	28
6.9. Participation in conferences as a speaker in the last 15 years (23 conferences; 33 oral presentations)	
29	
6.10. National and international scientific collaborations.....	31
7. SCIENTIFIC PUBLICATIONS.....	34
7.1. Articles in print (electronic print indexed on Scopus and/or WOS DB) [IJD] (3)	34
7.2. Articles on international journals indexed on Scopus and/or Web of Science [IJP] (55)	34
7.3. Articles/Chapters in international Books indexed in Web of Science (and/or SCOPUS [IBC] (5).....	37
7.4. Proceedings of International Conferences indexed in Web of Science (and/or SCOPUS) [ICP] (29)	
38	

7.5.	Articles/Chapters in International Books with ISSN ([BC] (1)	40
7.6.	Articles on international and national journals with ISSN [JP] (7)	40
7.7.	Proceedings of International Conferences with ISBN [CP] (35)	40
7.8.	Books [M] (3)	43
7.9.	Chapters in National Books [NBC] (25)	43
7.10.	Books' curatorship [E] (3).....	45
7.11.	Published Projects [P] (1).....	45
7.12.	Proceedings of National Conferences [NP] (46).....	45
7.13.	Internal Reports [IR] (9)	47

1. PERSONAL INFORMATION



PROF. ING. GIUSEPPINA UVA, PHD

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2. CURRENT ACADEMIC POSITION AND ASSIGNMENTS

Full Professor (full-time) in Structural Engineering (SSD ICAR 09 - “Tecnica delle Costruzioni”), Department DICATECH (Department of Civil, Environmental, Land, Building Engineering and Chemistry), Polytechnical University of Bari.

Coordinator of Educational activities of Department Dicotech of Polytechnical University of Bari

Deputy Coordinator of the Doctoral Program in Risk and Environmental, Territorial and Building Development2 of the Polytechnical University of Bari (Cycles XXXV, XXXIV, XXXIII)

Member of the Academic Board of the Doctoral Program in Risk and Environmental, Territorial and Building Development of the Polytechnical University of Bari (Cycles XXXIII, XXXIV, XXXV, XXXVI).

Member of the Technical Administrative Committee of the Interregional Public Works Authority for Campania, Molise, Puglia and Basilicata as an expert member in structures.

Chair holder of the Course “Design of Earthquake-Resistant Buildings” (12 CFU) in the Master Degree in Civil Engineering at Politecnico di Bari.

3. PREVIOUS ACADEMIC POSITIONS AND EXPERIENCE

3.1. Academic history

2016

Italian National Scientific Qualification as **Full Professor in Structural Design** (art.16, law 30 December 2010, #240, SSD Icar-09 “Tecnica delle Costruzioni” (Structural Engineering)

http://abilitazione.miur.it/public/pubblicarisultati_2016.php

2004-2011

From December 29, 2004 to November 1, 2011 she was in service as a **full time Associate Professor of Structural Engineering** (SSD Icar 09 – “Tecnica delle Costruzioni”) at Politecnico di Bari, School of Architecture-ICAR Department (Department of Civil Engineering and Architecture).

She was placed on **compulsory maternity leave** from 03/03/2008 to 03/08/2008 (Law 1204/1971).

1999-2001

From December 1, 1999 to December 28, 2004 she was in service as a full-time **Assistant Professor** (“Ricercatore Universitario” a tempo pieno) of **Structural Engineering** (SSD Icar 09 – “Tecnica delle Costruzioni”) at the School of Architecture of the Polytechnic University of Bari, Department ICAR.

July 1999 - November 1999

Post-Doctoral Fellowship at the University of Calabria (CS).

September 1998

Degree as **Doctor of Philosophy in Computational Mechanics** - X Cycle.

Dissertation: *“Analysis of Masonry Panels: constitutive modelling of damage and numerical solution strategies”* (“Analisi di pannelli murari: modellazione costitutiva del danneggiamento e strategie numeriche di soluzione”) Advisors: Prof. Raffaele Casciaro (University of Calabria); Prof. Mauro Mezzina (Politecnico di Bari).

3.2. Academic qualifications

2018-2021

Member of the Academic Senate of Polytechnical University of Bari

2020-2021

Member of the Senate Committee for the preliminary examination of proposals and amendments to the University regulations.

2020-2021

Deputy Director of Department Dicatech of Polytechnical University of Bari

2013-2020

Deputy Coordinator of the Doctoral Program in Risk and Environmental, Territorial and Building Development of the Polytechnical University of Bari (Cycles XXIX-XXXV)

2012-2013

Deputy Coordinator of the Doctoral Program in “Civil, Environmental, Land, Building and Chemical Engineering (DICATECH)” (XXIVIII Cycle).

2014-2019

Member of the Quality Supervision Board (PQA) of the Polytechnical University of Bari (<http://www.poliba.it/it/Q%26S/presidio-della-qualit%C3%A0-di-ateneo>)

2017

Representative of Dicatech Department in the working group for the definition of the English Course Catalogue (D.R. n. 504/2017).

2012-2015

- **Member of the Research Committee** of the Dicatech Department.
- **Member of the College of Discipline** of Politecnico di Bari.
- **Member of the Departmental Council of Dicatech Department**, Polytechnical University of Bari as representative of associate professors.

2013-2014

- **Scientific Responsible of the Library** of Dicatech Department, Politecnico di Bari

2009-2012

- **Member of the Scientific Committee for Civil Engineering and Architecture** of the Politecnico di Bari.
- **Member of the Equal Opportunities Committee** of the Politecnico di Bari.

2001-2003

- **Member of the Departmental Council of Dicatech Department**, Polytechnical University of Bari as representative of assistant professors.
- **Member of the Scientific Commission for Civil Engineering and Architecture of Polytechnical University of Bari.**

3.3. Scientific Qualifications

2002

- Diploma in the Master Course in Architectural Restoration and Building, Urban and Environmental Recovery, University of Rome III, Director Prof. Paolo Marconi (15 credits; March 8, 2002-July 12, 2002).

1999

- Winner of a position as University Researcher, SSD ICAR 09 - Tecnica delle Costruzioni (ex H07B) at the Faculty of Architecture of the Politecnico di Bari (October 1999), and appointed as RU, SSD ICAR 09 (December 2, 1999).
- Post-doctoral fellowship at the University of Calabria (July-November 1999)

1998

- Degree of Philosophy Doctor in Computational Mechanics

1995

- Winner of a Grant for the PhD Course in Computational Mechanics at the University of Calabria (January 1995).
- Eligibility in the competition for the PhD in Civil Engineering at the University of Pavia (January 1995).

1994

- Winner of a Grant for the PhD Course in Structural Engineering at the Politecnico di Torino (December 1994).

Participation in Doctoral Boards (PhDs recognized by the Italian Ministry of University and Research)

From 2013 to the present (PhD cycle XXIX-XXXIII)

- Deputy coordinator of the PhD in "Risk and environmental, territorial and building development" of Department Dicatech-Polytechnic of Bari, Coord. Prof. Michele Mossa
- Member of the Doctoral Board of the PhD in "Risk and environmental, territorial and building development" of Department Dicatech- Polytechnical University of Bari, Coord. Prof. Michele Mossa

2012 (PhD cycle XXVIII)

- Deputy coordinator of the PhD in "Risk and environmental, territorial and building development" of Department Dicatech-Polytechnic of Bari, Coord. Prof. Michele Mossa
- Member of the Doctoral Board of the PhD in “Civil Engineering, Environment Civile, Ambientale, del Territorio, Edile e in Chimica (DICATECH)”, Polytechnical University of Bari, Coord. Prof. Antonio Felice Petrillo.

2011 (PhD cycle XXV-XXVII)

- Member of the Doctoral Board of the PhD in “Civil Engineering, Environment and Territory, Construction and Chemistry”, Polytechnical University of Bari, Coord. Prof. Antonio Felice Petrillo.

2009-2012 (PhD cycles XXV-XXVIII)

- Member of the Doctoral Board of the PhD in “Science and technology - Bernardino Telesio” of the University of Calabria, Coord. Prof. Roberto Bartolino.

2008 (PhD cycle XXIV)

- Member of the Doctoral Board of the PhD in “Science and technology” of the University of Calabria, Coord. Prof. Roberto Bartolino

2006-2007 (PhD cycles XXII-XXIII)

- Member of the Doctoral Board of the International PhD School "Hard Sciences" Bernardino Telesio 1st cycle". University of Calabria, Coord. Prof. Roberto Bartolino

2003-2007 (PhD cycles XVIII-XXIII)

- Member of the Doctoral Board of the PhD School in Computational Mechanics", University of Calabria, Coord. Prof. Maurizio Aristodemo

3.4. Prizes

2006

Special mention: International competition Europan 8 2005/06. European Urbanity and Strategic Projects. Theme: Building with Nature - Chiampo (Italy). "MM537 – The implicit project: the form of the excavation", "Cava Lovara" redevelopment project (through the creation of a new pole on a territorial scale with cultural, tertiary, tourist-accommodation, residential and recreational facilities) and the quarry park (including the disused quarries of Porto, Cengelle and Lovara) in the Illasi-Alpone valleys and Chiampo and Agno valleys district towards the "Piccole Dolomiti" mountain range. Parent company: arch. Calogero Montalbano, with C. Chiarantoni, E. de Nichilo, M. Guaricci, P. Ianni, (co-designers), M. Basile, G. Binetti, M. Mokhtari, F. Rossetti (collaborators), G. Uva (consultant), M. Barbanente (consultant).

1997

Winner of the 1st prize as structural designer of the Competition of Ideas organised by "Casa di riposo Vittorio Emanuele II" public interest body in Trani (BA), for the extension of its headquarters.

3.5. Specific professional experience characterised by research activity

2018 - Member of the Public Commission for the awarding of technical services for Restoration of Palazzo Martinelli. Municipality of Monopoli.

2017 - Coordination of the Structural Design in the elaboration of the project proposal of the Polytechnic University of Bari candidate for the Public Notice "Community Library POR Puglia 2014-2020-Action 6.7 Interventions for the enhancement and enjoyment of cultural heritage", aimed at the functional requalification of the University Libraries, financed and currently under construction.

2016 – Scientific consultant in the criminal proceeding n. 10889/04 R.G. of the Court of Trani about structural interventions carried out on a historic masonry building.

2015 – Member of the Public Commission for the final and executive design, execution of works relating to the intervention called BA069A/10 "Works of hydraulic arrangement Contrada Misetta - Alveo Lama del Conte, Località Guadagno in the municipality of Bitetto (BA). Basic amount based of the tender: € 1,720,000.00. Office for the Hydrogeological Instability of Sicily, Puglia, Calabria.

2009 – Consultant appointed by the President of the Court of Appeal - 3rd Civil Section of the Court of Bari for the technical expertise in the case for the collapse of the wall and runoff of the foundations of an industrial building located in the municipality of Gravina (Ba). Cautral proceedings in progress Registered under no. 639/2006 R.G. (appointed expert: Prof.ssa Giuseppina Uva).

2006 – Consultant appointed by the GUP of the Criminal Court of Cagliari for the technical expertise in the case for the collapse of part of the building "Pozzo Sella" - Mine of Monteponi - undergoing conservative maintenance, which occurred on 29 September 2004. Criminal Proceedings No. 10889/04; amount of works € 432,798.86 (appointed expert: Prof.ssa Giuseppina Uva).

2005-2006 – Consultant appointed by the GIP of the Criminal Court of Cagliari for the technical expertise in the case for the collapse of a building under construction at Selargius. Criminal Proceedings No. 8441/04; value of the work € 1,021,878.00 (appointed expert: Prof.ssa Giuseppina Uva).

2002-2004 – Consultant of the Municipality of Molfetta for the assessment of the buildings in Via Aldo Fontana at numbers 15, 23, 13, 22, 18. Class: 1g (Law No. 143/49 and subsequent amendments and integrations).

1997 – Structural design of the retirement home "Vittorio Emanuele II" project winner of the competition of ideas launched in 1997 by the public interest "Casa di Riposo Vittorio Emanuele II". (Designer of the structures: Ing. Giuseppina Uva).

1996 – Design of a prototype of a steel framed container to house the equipment for the Telecom mobile telephony systems for MP System Srl. (Designer in charge of the structures: Ing. Giuseppina Uva).

3.6. Other qualifications

- **Level 2 CICPND Qualified technician** for the tests on concrete structures, reinforced and prestressed concrete for tests: sclerometric since July 19, 2002.
- **Level 3 CICPND Qualified technician** for the tests on concrete structures, reinforced and prestressed concrete and masonry for tests: sclerometric since November 2006.
- **Level 3 CICPND Qualified technician for the monitoring of concrete structures, reinforced and prestressed concrete, masonry and metal structures, since September 2007.**

4. EDUCATION AND STUDIES

4.1. Education and technical studies

- 2007** **3rd Level Certification CICPND** (“Centro Italiano di Certificazione per le Prove Non Distruttive e per i processi industriali”) for Structural Monitoring in static and dynamic applications
- 2006** **3rd Level Certification CICPND** (“Centro Italiano di Certificazione per le Prove Non Distruttive e per i processi industriali”) for tests on c.a., prestressed c.a. and masonry structures: Ultrasonic Tests, Flat Jack
- 2002** **Degree in the Advanced Master Course in Architectural Restoration and Building, Environmental and Urban Rehabilitation** (duration 6 months, 15 CFU), University of Roma III, Roma.
2nd Level Certification CICPND (“Centro Italiano di Certificazione per le Prove Non Distruttive e per i processi industriali”) for tests on c.a., prestressed c.a. and masonry structures: Ultrasonic Tests, Flat Jack; obtain after a national examination and a preparation course
- 1999** **Post Doctoral Fellowship** at the University of Calabria.
- 1998** **PhD Degree in Computational Mechanics** (Italian National Examination, University of Bologna)
- 1995-97** **PhD Course in “Computational Mechanics”- X Cycle**, at the University of Calabria (duration 3 years). (<http://web.archive.org/web/20020305110332/http://www.labmec.unical.it:80/dottorato/cicli.it.htm>)
- 1994** **MSc Degree in Civil Engineering (cum Laude)**, Polytechnic University of Bari.
Dissertation: “Stochastic Dynamics of Base-isolated Systems”
Advisors: Prof. Alfredo Sollazzo (Politecnico di Bari), Prof. Mauro Mezzina (Politecnico di Bari)
- 1988** **High school Degree**; Liceo Scientifico “E. Fermi”, score 60/60, with Award and Scholarship from Firestone Italia.

4.2. Workshops and short advanced courses

- 2003** Mar.: Course on Multi-scale Analysis of variational theories – Prof. Andrea Braides, at University of Roma III (24-28 march).
Apr.: Short course: “An introduction to the path integration method for stochastic differential equations with engineering applications” Prof. Arvid Naess, at Polytechnical University of Bari.
- 2002** Mar-Apr: Advanced Master Course in Architectural Restoration and Building, Environmental and Urban Rehabilitation at the Faculty of Architecture of the University of Roma III (15 CFU - 8 March-12 July 2002).
Jul.: Training Course: “Level 2 CICPND for tests on RC structures and rebound hammer test.
Dic.: Preparatory Course for geo-radar systems RIS-2K (Boviar Srl-IDS Spa), 11-13 December 2002, Casoria, Napoli.
- 1998** Apr.: Advanced Course “Integration problems in the symmetrical formulation of the Boundary Element Method” held by Prof. T. Panzeca (Università di Palermo) at University of Calabria, 16-17 April 1998.
Oct.: Short Stay at the Research Laboratories “Charles Lee Powell”, Department of Applied Mechanics & Engineering Sciences, University of California, San Diego.
- 1997** June: Advanced Course “Computational Problems at critical points and bifurcation points” held by Prof. E. Riks (Delft University of Technology, Olanda) at University of Calabria, 29 May-6 June 1997.
- 1996** Feb.: Short stay at University of Genova for research studies about the PhD theme.
- 1995** Mar.: Workshop “Cell Method” held by Prof. Tonti (University of Trieste), at University of Calabria, Cosenza.
June: Course “Programma di Istruzione Permanente 1994-1995. Computation Methods for dstructural Engineering: I. Fundamentals of Finete Elements and Boundary Elements; II. Damage and Fracture Mechanics. Politecnico di Milano, 26-30 June 1995
Nov.: Course on Damage Mechanics held by prof. D. Kraiijcinovic (Arizona State University). Politecnico di Milano, 14-17 November 1995.
Workshop on Damage Mechanics organized by Italian Group of Fracture (IGF), Milan, 20 November.

5. TEACHING ACTIVITY

5.1. Academic teaching assignments

Chair of "Anti-Seismic Structural Design" in the Master's Degree Course in Civil Engineering - Politecnico di Bari, and "Structural Vulnerability of Existing Buildings".

She has carried out with continuity academic didactic activity since 2001 in the Scientific Sector of Structural Engineering (SSD Tecnica delle Costruzioni – Icar 09).

A.A. 2021-2022 (12 CFU)

Main Course: “Anti-seismic structural design” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2020-2021 (12 CFU)

Main Course: “Anti-seismic structural design” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2019-2020 (12 CFU)

Main Course: “**Anti-seismic structural design**” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2018-2019 (18 CFU);

Main Course: “**Anti-seismic structural design**” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

Additional Courses: “**Structural vulnerability of existing buildings**” (6 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2017-2018 (18 CFU)

Main Course: “**Anti-seismic structural design**” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

Additional Courses: “**Structural vulnerability of existing buildings**” (6 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2016-2017 (12 CFU)

Main Course: “**Anti-seismic structural design**” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2015-2016 (24 CFU)

Main Course: “**Anti-seismic structural design**” (12 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari. “**Anti-seismic structural design**” (12 CFU), Master’s Degree in Building Systems Engineering of Polytechnic University of Bari.

A.A. 2014-2015 (12 CFU)

Main Course: “**Anti-seismic structural design and Structural Design II – Module Anti-seismic structural design**” (6 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

“**Fundamentals of Earthquake Engineering and Solid Mechanics II – Module Fundamentals of Earthquake Engineering**” (6 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2013-2014 (18 CFU)

Main Course: “**Structural Engineering**” (12 CFU), Bachelor’s Degree in Civil and Environmental Engineering of Polytechnic University of Bari.

Additional Courses: “**Anti-seismic structural design**” (6 CFU), Master’s Degree in Civil Engineering of Polytechnic University of Bari.

A.A. 2012-2013 (12 CFU); A.A. 2011-2012 (12 CFU); A.A. 2010-2011 (12 CFU)

Main Courses: “**Design of Structures**” (9 CFU), Master’s Degree in Architecture of Polytechnic University of Bari; “**Theories and construction techniques in their historical development**” (3 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

A.A. 2009-2010 (12 CFU)

Main Courses: “**Design of Structures**” (9 CFU), Master’s Degree in Architecture of Polytechnic University of Bari; “**Theories and construction techniques in their historical development**” (3 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

Additional courses:

Member of the board of teachers in the Master Degree Laboratories "Mandu-India" (Master’s Degree in Architecture of Polytechnic University of Bari).

A.A. 2008-2009 (12 CFU)

Main Courses: “**Design of Structures**” (9 CFU), Master’s Degree in Architecture of Polytechnic University of Bari; “**Theories and construction techniques in their historical development**” (3 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

A.A. 2007-2008 (21 CFU)

Main Courses: **“Design of Structures”** (9 CFU), Master’s Degree in Architecture of Polytechnic University of Bari; **“Theories and construction techniques in their historical development”** (3 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

Additional courses:

Member of the board of teachers in the Master Degree Laboratories "Hama-Siria" (Master’s Degree in Architecture of Polytechnic University of Bari), with the course **“Structural Design II”** (10 CFU).

A.A. 2006-2007 (21,5 CFU)

Main Courses: **“Design of Structures”** (9 CFU), Master’s Degree in Architecture of Polytechnic University of Bari; **“Theories and construction techniques in their historical development”** (3 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

Additional courses:

Member of the board of teachers in the Master Degree Laboratories “Gerusalemme”, “Gravina” and “India” (Master’s Degree in Architecture of Polytechnic University of Bari), with the course **“Structural Design II”** (10 CFU).

A.A. 2005-2006 (12,5 CFU)

Main Courses: **“Design of Structures”** (9 CFU), Master’s Degree in Architecture of Polytechnic University of Bari; **“Theories and construction techniques in their historical development”** (3 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

Additional courses:

Member of the board of teachers in the Degree Laboratories "Aleppo 1 e 2" (Master’s Degree in Architecture of Polytechnic University of Bari).

A.A. 2004-2005 (3,5 CFU)

Appointed for the course **“Theories and construction techniques in their historical development”** (3,5 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

A.A. 2003-2004 (20 CFU)

Appointed for the course **“Theories and construction techniques in their historical development”** (3,5 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

“Structural Design” (3,5 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

Member of the board of teachers in the Degree Laboratories "Sinan" (Master’s Degree in Architecture of Polytechnic University of Bari), with a course in **“Structural Design II”** (10 CFU), **“Design of Structures II”** (3 CFU).

A.A. 2002-2003 (7 CFU)

Appointed for the courses: **“Theories and construction techniques in their historical development”** (3,5 CFU); **“Structural Design”** (3,5 CFU); Master’s Degree in Architecture of Polytechnic University of Bari.

A.A. 2001-2002 (13,5 CFU)

Appointed for the course **“Theories and construction techniques in their historical development”** (3,5 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

Member of the board of teachers in the Degree Laboratories "Spalato" (Master’s Degree in Architecture of Polytechnic University of Bari), with a course in **“Structural Design II”** (10 CFU).

A.A. 2000-2001 (3,5 CFU)

Appointed for the course **“Theories and construction techniques in their historical development”** (3,5 CFU), Master’s Degree in Architecture of Polytechnic University of Bari.

5.2. Teaching support and mentoring

In the years **A.A. 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005** collaborated with

Prof. Mauro Mezzina and Prof. Claudio D'amato Guerrieri in the course of "Laboratory of Construction of Architecture II" (2nd cycle of the Degree Course in Architecture).

In particular, she supported the teaching of "Structural Design" (ICAR 09) related to the design and structural analysis of reinforced concrete elements, steel and load-bearing masonry, carrying out theoretical and practical exercises, seminars, and assisting students in the elaboration of the theme of the year, consisting in the design of structural elements in reinforced concrete, load-bearing masonry or steel.

In the interdisciplinary spirit of the laboratory she also collaborated with Prof. Claudio D'amato Guerrieri in his course "Theories and Techniques of Architectural Design", holding a series of lessons and exercises dedicated to the reflection on the relationship between idea-project-construction and to the deepening and comparison between masonry architecture, reinforced concrete and steel.

From December 1997 to December 1999 she collaborated with continuity in the course of Structural Design in the Faculty of Architecture of the Politecnico di Bari, with activities in support of teaching and design exercises carried out by students.

5.3. External teaching and advanced training activities

21 June 2019, Foggia.

Associazione Nazionale di Ingegneria Sismica - Anidis – Ordine degli Ingegneri della Provincia di Foggia.
Teaching in the Advanced Training Course: “NTC 2018 e la circolare esplicativa – Ed. Foggia”.

4 July 2017, Bari.

Teaching in the Advanced Training Course: Seismic design and verification of reinforced concrete and masonry structures: "Seismic vulnerability analysis of existing buildings: general aspects"; "Specific aspects of vulnerability for reinforced concrete buildings", "Specific aspects of vulnerability for masonry buildings".
Organized by: "Provveditorato Interregionale per le Opere Pubbliche Campania Molise Puglia", "Ordine degli Ingegneri della Provincia di Bari".

4,8,18,22 June 2015, Brindisi.

Teaching in the course of Advanced Training on Structural Diagnostics and Vulnerability: "Seismic Vulnerability of the existing heritage: from the territorial scale to the safety assessment according to NTC 2008": "Regulatory framework, modeling and structural analysis", "Safety assessment and seismic analysis of existing buildings", "Safety assessment of historical and monumental buildings".
Organized by: "Ordine degli Ingegneri della Provincia di Brindisi", "Gestinnovation".

15,22/05 19,26/06 2015, Bari.

Teaching in the course of advanced training on Structural Diagnostics and Vulnerability: "Seismic Vulnerability of the existing heritage: from the territorial scale to the safety assessment according to NTC 2008": "Regulatory framework, modeling and structural analysis", "Safety assessment and seismic analysis of existing buildings", "Safety assessment of historical and monumental buildings".
Organized by: *Ordine degli Architetti P.P.C. e Ordine degli Ingegneri della Provincia di Bari, Gestinnovation.*

24-28 October 2014, Bari.

Department Dicatech-Politecnico di Bari.

Course for the PhD students (XXX Cycle): "Risk, Hazard and vulnerability" for the PhD in Risk and Environmental, Territorial and Building Development of Polytechnic University of Bari

7 marzo 2014. Bari

Protocollo di Intesa tra Consiglio Nazionale Ingegneri, Dipartimento della Protezione Civile. Consulta regionale degli Ordini degli Ingegneri di Puglia.

Teacher in the Course: "La gestione tecnica dell'emergenza sismica - rilievo del danno e valutazione dell'agibilità": Modulo "Il comportamento delle strutture in muratura sotto sisma: Meccanismi di danno".

8 marzo 2014. Foggia

Agreement between CNI (National Council of Engineers), DPC (National Department of Civil Protection) and Regional Council of Architects of Puglia.

Teaching in the course of advanced training “The technical management of seismic emergencies - damage relief and assessment of practicability”: Module "The behaviour of masonry structures under seismic conditions: damage mechanisms".

20 February 2014, Trani

Agreement between National Council of Geometri, DPC (National Department of Civil Protection) and National Association of Geometri volunteers for Civil Protection.

Teaching in the course of advanced training “The technical management of seismic emergencies - damage relief and assessment of practicability”: Module "The behaviour of masonry structures under seismic conditions: damage mechanisms".

30 November 2013, Foggia

Agreement between CNA PP.C: (National Council of Architects), DPC (National Department of Civil Protection) and Regional Council of Architects of Puglia.

Teaching in the course of advanced training “The technical management of seismic emergencies - damage relief and assessment of practicability”: Module "The behaviour of masonry structures under seismic conditions: damage mechanisms".

29 November 2013, Bari

Agreement between CNA PP.C: (National Council of Architects), DPC (National Department of Civil Protection) and Regional Council of Architects of Puglia.

Teaching in the course of advanced training “The technical management of seismic emergencies - damage relief and assessment of practicability”: Module "The behaviour of masonry structures under seismic conditions: damage mechanisms".

17 May 2012, Bari.

Ariap (Regional Association of Engineers and Architects of Puglia)

Teaching in the course of advanced training “Architecture and Structure” according to NTC 2008”: "Structural safety of existing structures according to NTC 2008".

24 March 2011, Bari.

Centro Studi CISEM

Teaching in the course of advanced training “The new Italian seismic code”: “Masonry buildings. Case Studies”.

20 May 2011, Foggia.

Centro Studi CISEM

Teaching in the course of advanced training “The new Italian seismic code”: “Safety assessment and design of interventions for existing buildings: Buildings with ordinary masonry structure”; “Masonry buildings. Case Studies”.

29 October 2009, Bari.

Department ICAR-Polytechnic University of Bari, Fire Department of Bari

Teaching in the course of advanced training “Seismic vulnerability of buildings and post-seismic evaluation”: "Understanding Seismic Risk".

31 March 2009, Foggia.

Basin Authority of Puglia, Department ICAR Polytechnic University of Bari, Municipality of Foggia.

Teaching in the course “Training day for activities to highlight the seismic vulnerability of widespread construction”.

2008. Bari

Ordine degli Ingegneri della Provincia di Bari.

Teaching in the course of advanced training “Design and assessment according to the New Technical Standards for Constructions” - Module '2': Seismic Design of RC Structures”: "Methods of Structural analysis".

March-May 2007, Bari.

Ordine degli Ingegneri della Provincia di Bari.

Scientific Coordination and Teaching in the Advanced Training Course "Design and Assessment according to the New Technical Standards for Construction": "Masonry Structures", "Existing Buildings", "Methods of Structural Analysis", "SLU for normal stress".

2007. Bari.

Ordine degli Ingegneri della Provincia di Bari.

Teaching in the Advanced Training Course "Design and verify with the New Technical Standards for Construction" - Module '1': "Design of Armed Cement Structures with the Semiprobabilistic Method to the Limit States".

2006. Bari.

Ordine degli Ingegneri della Provincia di Bari.

Teaching in the Advanced Training Course "Design and Assessment according to the New Technical Standards for Construction", Module '1': Design of Reinforced Concrete Structures with the Semiprobabilistic LS Method".

2006. Bari

Ordine degli Ingegneri della Provincia di Bari.

Teaching in the Advanced Training Course "Design and Assessment according to the New Technical Standards for Construction", Module '2': Seismic Design of RC structures.

2002. Bari.

Politecnico di Bari.

Teaching in the Master "Safety Engineering" of Polytechnic University of Bari: "Architecture, Geometry and Vulnerability".

2002. Bari.

Ariap (Regional Association of Engineers and Architects of Puglia)

Teaching in the Advanced Training Course "Vulnerability Assessment of Buildings.

2000. Isernia e Campobasso.

Anidis – National Association of Seismic Engineering

Teaching in the Advanced Training Course on the New Italian Building Code: "Masonry Structures in seismic areas".

5.4. Teaching in International Master Courses

2007 – Teaching assignment in the International Master Course in "Environmental Policy and Management"; Polytechnic University of Bari - Institut des Sciences Appliqués de Lyon (INSA). Moduli: Risk Associated to Earthquakes: Earthquake Risk Assessment of The Monumental And Architectural Heritage".

2004 – Teaching assignment in the International Master Course in "Environmental Policy and Management", Polytechnic University of Bari - Institut des Sciences Appliqués de Lyon (INSA). Moduli: "Risk Associated to Earthquakes: Earthquake Risk Assessment of The Monumental and Architectural Heritage".

5.5. Scientific Supervision of MSC Theses and Master Theses

As part of her teaching and research activities, she has followed numerous master's theses and second level master's theses.

Scientific Supervision of 2nd Level Master Theses

A.A. 2006-2007

2nd level Master "Geographic Information Systems applied to the planning and design of urban and rural areas", University of Rome La Sapienza - Faculty of Architecture Valle Giulia.

External Supervisor of the Thesis entitled "Assessment of vulnerability and seismic risk within a multi-hazard

territorial information system of the Province of Foggia", candidate Ing. I. Trulli.

A.A. 2006-2007

2nd level Master "Geographic Information Systems applied to the planning and design of urban and rural areas", University of Rome La Sapienza - Faculty of Architecture Valle Giulia.

External Supervisor of the Thesis entitled "Seismic risk assessment for the province of Foggia: expeditious methodologies for the analysis of urban centres managed with GIS systems", candidate Arch. S. Marella.

Scientific Supervision of MSc Theses

In the last 5 years she has been the scientific advisor for more than 100 MSc Thesis in Civil Engineering and Building Systems Engineering at Politecnico di Bari in the subjects: Structural Vulnerability of Existing Buildings, Seismic Design of buildings; Fundamentals of Earthquake Engineering. Some theses have been carried out in collaboration with foreign Universities and within the Erasmus projects.

Below are some of the most significant ones.

2021

1. Mirko Calò - Master Thesis in Civil Engineering: "*typological-mechanical modeling of the seismic response of existing reinforced concrete buildings and nonlinear cloud analysis*"; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. S. Ruggieri, A. Cardellicchio.
2. Martina Pozzessere - Master Thesis in Civil Engineering: "*Typological-mechanical modeling of the seismic response of existing reinforced concrete buildings and non-linear analyses*" Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. S. Ruggieri.
3. Francesco Pellegino - Master Thesis in Civil Engineering: "*Structural safety of existing steel bridges: numerical modeling and vulnerability analysis considering the effects and the evolution of some degradation phenomena*" Supervisors Prof. Giuseppina Uva, Prof. José Adam; Co-Supervisors Ing. A. Nettis, V. Sangiorgio.
4. Francesco Colapinto - Master Thesis in Civil Engineering: "*Innovative approaches for the seismic retrofitting of existing buildings*"; Supervisor Prof. Giuseppina Uva.
5. Giuseppe Di Gemma - Master Thesis in Civil Engineering: "*Structural monitoring and dynamic identification for existing buildings with mixed R.C. Masonry structure*"; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. S. Ruggieri.

2020

6. Alfonso De Cotiis - Master Thesis in Civil Engineering: "*Applicazioni di approcci indiretti alla analisi di vulnerabilità sismica dell'edilizia residenziale diffusa: il caso del comune di Panni (FG)*"; Supervisor Prof. Giuseppina Uva, Prof. Domenico Raffaele.
7. Massimo Miscioscia - Master Thesis in Civil Engineering: "*Approcci di modellazione numerica del collasso progressivo di edifici intelaiati in c.a. per eventi eccezionali*"; Relatore Prof. Giuseppina Uva.
8. Graziana Petrelli - Master Thesis in Civil Engineering - "*Metodi di analisi pushover per edifici esistenti: approcci tradizionali ed avanzati*"; Relatore Prof. Giuseppina Uva, Co-Supervisor Ing. S. Ruggieri.

2019

9. Monica Rapido - Master Thesis in Civil Engineering: "*Finite Element Modelling and Experimental Investigation of the Strain Transfer in Bonded Optical Fiber Sensors*"; Supervisor Prof. Giuseppina Uva, Prof. José Adam (Universitat Politècnica de València).
10. Fabiola Iurlo - Master Thesis in Civil Engineering: "*Investigation on macro modelling strategies for masonry structures*", Supervisor Prof. Giuseppina Uva, Prof. Christoph Butenweg (RWTH di Acheen).
11. Lucia Scarcelli - Master Thesis in Civil Engineering: "*Structural degradation Assessment of elevated storage tanks: test site in Valencia Region*"; Supervisor Prof. Giuseppina Uva, Prof. José Adam (Universitat Politècnica de València).

12. Giovanni Giardinelli - Master Thesis in Civil Engineering: “*Vulnerabilità strutturale di serbatoi sopraelevati esistenti in c.a.: approcci di valutazione rapida e casi studio*”; Supervisor Prof. Giuseppina Uva, Prof. Josè Adam (Universitat Politècnica de València).

13. Giorgio Piccoli - Master Thesis in Civil Engineering: “*Analisi storico - critica di un edificio esistente misto calcestruzzo e muratura e modellazione numerica agli elementi finiti*”; Supervisor Prof. Giuseppina Uva.

2018

14. Mirco Morrone – Master Thesis in Civil Engineering: *Una metodologia di estrazione, integrazione ed elaborazione di dati multi-sorgente per l’analisi della vulnerabilità a scala urbana: proposte e applicazioni per la città di Taranto*, Supervisor Prof. Giuseppina Uva

15. Pasquale Di Bartolomeo - Master Thesis in Civil Engineering: *Modellazione e analisi dinamica non lineare di edifici in muratura in aggregato: approcci FEM 3d e casi di studio*; Supervisor Prof. Giuseppina Uva, Prof. Siro Casolo.

16. Pasquale Quacquarelli - Master Thesis in Civil Engineering: *Derivazione di indici di vulnerabilità multi-criterio a scala urbana: il caso di studio del comune di Andria in Puglia*; Supervisor Prof. Giuseppina Uva

17. Pierpaolo Mongelli - Master Thesis in Civil Engineering: *Modellazione numerica di classi di edifici in cemento armato rappresentativi delle tipologie esistenti in ambito pugliese finalizzata ad analisi di vulnerabilità sismica a scala regionale*; Supervisor Prof. Giuseppina Uva

18. Raffaele Bellomo - Master Thesis in Civil Engineering: *Vulnerabilità sismica di edifici di culto e analisi dei cinematismi di collasso: il caso del Duomo di Molfetta*; Supervisor Prof. Giuseppina Uva

19. Nicola Schiavone - Master Thesis in Civil Engineering: *Problemi di modellazione numerica con codici FEM: confronto tra codici commerciali e codici open source*. Supervisor Prof. Giuseppina Uva.

2017

20. Lovelli Monica – Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Analisi di vulnerabilità sismica: caso studio dell’edilizia residenziale dell’Arca Jonica*, Supervisor Prof. Giuseppina Uva

21. Papapicco Monica – Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: Analisi di vulnerabilità sismica a scala territoriale in ambiente GIS: un caso di studio in Puglia; Supervisor Prof. Giuseppina Uva, Co-Supervisor Prof. Eufemia Tarantino.

22. Bandini Marco – Thesis of Master’s Degree in Civil Engineering - Structures: *Prospettive e criticità degli approcci BIM nella modellazione ed analisi strutturale*; Supervisor Prof. Giuseppina Uva.

23. Della Carità Andrea – Thesis of Master’s Degree in Civil Engineering - Structures: *Metodi indiretti per la valutazione della vulnerabilità sismica di edifici esistenti in c.a. a scala territoriale*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Sergio Ruggieri.

24. Realgar Francesco Thesis of Master’s Degree in Civil Engineering - Structures: *Effetti sul comportamento dinamico degli edifici esistenti in c.a. indotti dalla variazione del modulo elastico*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Andrea Fiore.

25. Terzulli Rosa – Master Thesis in Civil Engineering VO: *Rischio sismico del patrimonio architettonico-Analisi ed indagini storico critiche a supporto della conoscenza e definizione delle criticità strutturali. L’ex convento e chiesa di San Francesco a Molfetta*. Supervisor Prof. Giuseppina Uva; Co-Supervisor Prof. Lorenzo Pietropaolo.

26. Altamura Massimo – Thesis of Master’s Degree in Civil Engineering - Structures: *Problemi di modellazione nell’analisi non lineare di strutture in cemento armato con codici di calcolo agli elementi finiti*. Supervisor Prof. Giuseppina Uva; co-Supervisor Prof. Francesco Porco, Ing. Sergio Ruggieri.

27. Favale Nino – Thesis of Master’s Degree in Civil Engineering - Structures: *Approcci di modellazione in campo non lineare di strutture murarie: analisi e confronti critici*; Supervisor Prof. Giuseppina Uva; co-Supervisor Prof. Francesco Porco, Ing. Sergio Ruggieri.

28. Fiore Giuseppe - Thesis of Master's Degree in Civil Engineering - Structures: *Movimentazione di edifici storici in muratura: modellazione e analisi numerica per il caso della torre di san Vincenzo a Palo del Colle*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Prof. Siro Casolo (Politecnico di Milano)
29. Fortunato Felice, Master Thesis in Civil Engineering: *Approcci per la valutazione della vulnerabilità sismica a scala regionale: componenti critici e prospettive*, Supervisor Prof. Giuseppina Uva
30. Liuzzo Giorgia - Thesis of Master's Degree in Civil Engineering - Structures: *Modelli multi-criterio per la valutazione della vulnerabilità di edifici scolastici esistenti*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Sergio Ruggieri.
31. Tateo Vito - Thesis of Master's Degree in Civil Engineering - Structures: *Approcci RBSM per la modellazione alla mesoscala di murature di tamponamento in edifici intelaiati in c.a.*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Prof. Siro Casolo (Politecnico di Milano).
32. Serini Giuseppe - Vito - Thesis of Master's Degree in Civil Engineering - Structures: *Studio degli effetti di irregolarità in pianta nella analisi pushover di edifici in c.a.* Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Sergio Ruggieri.
33. Rocco Difino - Tesi di Laurea Magistrale in “Ingegneria dei Sistemi Edilizi” (Master Degree in “Ingegneria dei Sistemi Edilizi”): Analisi e verifica di vulnerabilità sismica di edifici in muratura portante. Un caso di studio in Puglia; Supervisor Prof. Giuseppina Uva; CorSupervisor Prof. Fabio Fatiguso, Ing. Francesco Porco.
34. Ciampoli Pier Luigi - Thesis of Master's Degree in Civil Engineering - Structures: *Variabilità delle verifiche di sicurezza per effetto delle differenti valutazioni riguardanti i materiali e gli elementi non strutturali*; Supervisor Prof. Giuseppina Uva, Co-Supervisor Ing. Andrea Fiore.
35. Rotala Michele Stefano – Tesi di Laurea Magistrale in Ingegneria dei sistemi Edilizi: Strumenti di User-Reporting nella valutazione delle criticità prestazionali di edifici esistenti; Supervisor Prof. Giuseppina Uva; Co-Supervisor Prof. Fabio Fatiguso, Ing. Valentino Sangiorgio.

2016

36. Conte Alessandro - Thesis of Master's Degree in Civil Engineering - Structures: *Valutazione del comportamento sismico di strutture esistenti in cemento armato di edilizia popolare degli anni 70-80*; Supervisors Prof. Dora Foti, Prof. Giuseppina Uva; Co-supervisor Ing. Salvatore Carbone
37. Tota Federica - Thesis of Master's Degree in Civil Engineering - Structures: *Confronti e calibrazioni di approcci sperimentali per la caratterizzazione tipologica strutturale di compatti omogenei*; Supervisor Prof. Giuseppina Uva.
38. Calderola Filippo - Thesis of Master's Degree in Civil Engineering - Structures: *Problemi di modellazione e analisi non lineari di edifici esistenti in c.a.*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Sergio Ruggieri.
39. Salvemini Massimiliano - Thesis of Master's Degree in Civil Engineering - Structures: *Debonding length in normal concrete and fibre reinforced concrete*; Supervisor Prof. Giuseppina Uva, Mette Rica Geiker, Karla Hornbostel (NTNU: Norwegian University of Science and Technology).
40. Marangi Trisha - Thesis of Master's Degree in Civil Engineering - Structures: Analisi di vulnerabilità sismica del costruito esistente in muratura; Supervisor Prof. Giuseppina Uva, Co-Supervisor Prof. Francesco Porco.
41. Masilla Domenica - Thesis of Master's Degree in Civil Engineering - Structures: *Nuove valutazioni di vulnerabilità sismica a scala territoriale: caratterizzazione tipologica e strutturale di compatti urbani omogenei*; Supervisor Prof. Giuseppina Uva.
42. Albano Alessandro - Thesis of Master's Degree in Civil Engineering - Structures: *Effetti indotti dalla scelta di accelerogrammi artificiali sulla risposta non lineare di edifici in c.a.*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Andrea Fiore

43. Cassano Alessandro - Thesis of Master's Degree in Civil Engineering - Structures: *Hybrid collocation-Galerkin method for the dynamic analysis of solids*; Supervisor Prof. Giuseppina Uva, Sven Klinkel (RVTK Achen University); Co-Supervisor Lin Chen.
44. Lomagistro Anna - Thesis of Master's Degree in Civil Engineering - Structures: *Effetti indotti dalla scelta di accelerogrammi naturali sulla risposta non lineare di edifici in c.a.*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Marialuigia Sangirardi.
45. Basile Maria – Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Metodi meccanici ed empirici per l'analisi di vulnerabilità sismica a scala territoriale di edilizia diffusa in muratura: casi di studio ed applicazione nel contesto pugliese*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Marialuigia Sangirardi.
46. Cela Ledian – Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Affidabilità dei metodi meccanici semplificati per l'analisi di vulnerabilità sismica a scala regionale di edifici esistenti in muratura: validazione e confronti con modellazioni numeriche*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Marialuigia Sangirardi.
47. Cinefra Andrea - Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Progettazione di impalcati da ponte in calcestruzzo armato soggetti ad azioni nel piano: ottimizzazione di modelli strut and tie con algoritmi evolutivi*; Supervisors Giuseppina Uva, Fabrizio Palmisano; Co-Supervisor Angelo Elia.
48. De Pinto Raffaele - Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Modellazione del piano deformabile ed effetti indotti sulla risposta sismica di edifici telaio parete*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Andrea Fiore.
49. Di Venosa Giuseppe - Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Valutazione integrata a scala urbana della vulnerabilità sismica ed energetica dell'edilizia diffusa esistente*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Prof. Francesco Iannone.
50. Leggieri Valeria - Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Approccio integrato mediante BIM alla valutazione della vulnerabilità sismica e delle prestazioni energetiche di edifici*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Prof. Francesco Iannone.
51. Palma Damiano – Master Thesis in Civil Engineering – Strutture: *Calibrazione di modelli a biella equivalente mediante sperimentazione numerica su rigid body spring model di telai tamponati*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Andrea Fiore
52. Leo Raffaele – Tesi di Laurea Magistrale in Ingegneria dei Sistemi Edili: *Valutazione della vulnerabilità sismica dell'edilizia in c.a. a scala regionale con approcci meccanici semplificati: analisi di sensibilità delle variabili caratteristiche*; Supervisor Prof. Giuseppina Uva; Co-Supervisor Ing. Andrea Fiore.

5.6. Activity within PhD schools

Currently Deputy Coordinator and Member of the Board of the PhD in "Risk, Environmental, Territorial and Building Development" of the Department Dicatech-Politecnico di Bari, Coord. Prof. Michele Mossa, for Cycles XXXV, XXXIV, XXXIII. Member of the Board of Teachers of the PhD in "Risk, Environmental, Territorial and Building Development" of the Department Dicatech-Politecnico di Bari, Coord. Prof. Vito Iacobellis - XXXVI Cycle.

She has been a member of the Colleges of Doctoral Schools of the Politecnico di Bari and the University of Calabria since 2003, serving as Deputy Coordinator of PhDs of the Dicatech-Politecnico di Bari Department from 2012 to the present.

In the context of these Doctorates, she has carried out an intense activity of tutoring and scientific supervision also within double degree agreements:

2021 (2 phd students)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXXVII Cycle (1st year). **Tutor and Supervisor** of the PhD students Alessandro Nettis and Mirko Calò.

2020 (2 phd students)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXXVI Cycle (2nd year). **Tutor and Supervisor** of the PhD students Chiara tosto and Mohammad Khalil.

2019 (1 phd student)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXXIV Cycle (3rd year). **Tutor and Supervisor** of the PhD student Aldo Fabio D'oria.

2018-2021 (3 phd students)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXXII Cycle.

Tutor and Supervisor of PhD students Pierluigi Ciampoli and Valeria Leggieri.

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXXII Cycle (1st year). Stock exchange financed on a project submitted to the competitive tender PON Innovative PhDs with industrial characterization.

Tutor and Supervisor of PhD student Andrea Nettis.

2017-2021 (2 phd students)

International Doctoral Agreement between Saad Dahlab University, Blida, Algeria, and the Polytechnic University of Bari. XXXII Cycle.

Tutor and Co-Supervisor for the Politecnico di Bari of the Doctoral Thesis for the Student Amari Karima of Saad Dahlab University, Blida, Algeria: *Valutazione della vulnerabilità dei fari costieri storici in Algeria soggetti a rischi naturali. Vulnerability Assessment of historical coastal lighthouses in Algérie with regard to Natural Hazards.*

Tutor and Co-Supervisor for the Politecnico di Bari of the Doctoral Thesis for the Student *Benchekroun Marwa*, della Università Saad Dahlab, Blida, Algeria: *“Impatto delle trasformazioni coloniali e post coloniali sul comfort igrotermico del patrimonio residenziale ottomano di Algeri* (The impact of colonial and post-colonial transformations on the hygrothermal comfort of the Ottoman residential heritage of Algiers).

2015-2017 (2 phd students)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXXI Cycle.

Tutor of PhD Student Sergio Ruggieri with Prof. Dimitrios Vamvatsikos

Tutor of PhD Student Valentino Sangiorgio with Proff. José Adam, Humberto Varum and Fabio Fatiguso.

2014-2017 (1 phd student)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXX Cycle.

Tutor of PhD Student Roberto Gentile, **Supervisor** of the Thesis “The Simple Lateral Mechanism Analysis (SLAMA) for the seismic assessment of existing reinforced concrete structures” with Proff. Domenico Raffaele and S. Pampanin (University of Canterbury, NZ).

2013-2015 (1 phd student)

International Doctoral Agreement between *University of Minho, Portugal* and *Politecnico di Bari*. XXVIII Cycle. *Dottorato di Ricerca in Ingegneria Civile, Ambiente e Territorio, Edile e in Chimica Dipartimento Dicatech, Politecnico di Bari, XXVIII Cycle.*

Tutor of the PhD Student Marialuigia Sangirardi and **Co-Advisor** of the Final Thesis “*Seismic Assessment of Mixed Masonry-Reinforced Concrete Buildings. An insight into modelling approaches*” together with Prof.

P.B. Lourenço (Universidad do Minho, Portugal).

2012-2014 (1 phd student)

PhD in Environmental, Territorial and Building Risk and Development, Dicatech Department, Politecnico di Bari, XXVII Cycle.

Tutor of PhD Student Andrea Fiore and Advisor of the Final Thesis: “Valutazione del contributo delle tamponature nella resistenza ad azioni sismiche di telai in C.A.: modellazione ed analisi”.

6. SCIENTIFIC ACTIVITY

She carries out research on both theoretical, applicative, and numerical issues in the cultural areas of Construction Technique, Computational Mechanics and Earthquake Engineering.

In the last few years, in particular, the main research and didactic themes have concerned the static and dynamic non-linear modelling and analysis of masonry and reinforced concrete structures; seismic vulnerability analysis of existing masonry and reinforced concrete structures: residential building; historical and monumental building, strategic buildings; seismic risk analysis at territorial and urban scale; structural monitoring and Structural Health Monitoring of strategic structures and infrastructures.

6.1. Keywords and main research topics

Keywords

General themes:

Dynamics of Structures; Seismic Engineering; Constitutive Models with Damage and Plasticity; Masonry Mechanics; Computational Mechanics

Specialist themes:

Seismic vulnerability of existing RC and masonry buildings; seismic analysis of historical buildings and monuments; FEM; RBSM; Non-linear analysis methods (pushover and time-history), Dynamic soil-structure interaction; modelling of infill walls in the seismic response of infilled RC framed buildings.

Main Research Topics

[T1] Micromechanics and Damage Mechanics.

T2] Finite elements and numerical calculation methods, with particular reference to integration algorithms and iterative strategies for non-linear analysis problems.

T3] Elasto-plasticity and nonlinear analysis of structures.

T4] Mechanical and numerical modeling of masonry.

T5] Problems of homogenization and multi-scale modeling of masonry;

T6] Instability of slender elastic structures: perturbative algorithms, sensitivity to imperfection and modal interaction.

T7] Seismic and dynamic engineering of structures.

T8] Computational modelling and non-linear analysis in static and dynamic field of masonry and RC buildings.

T9] Structural problems of historical and monumental building: analysis of construction techniques, collapse mechanisms, consolidation problems.

T10] Analysis of vaulted systems: typological construction study; material; structural problems and verification.

T11] The birth of RC construction: analysis and historical development of construction techniques, consolidation and restoration problems.

T12] Diagnostics and structural monitoring for masonry and concrete structures.

T13] Non-linear analysis methods, static and dynamic, for reinforced concrete and masonry structures subject to seismic actions.

[T14] Modeling of the effects of infill walls on the seismic response and collapse mechanisms of RC buildings: equivalent strut models VS Meso-scale models

T15] Seismic risk and civil protection: vulnerability and fragility analysis at the regional and urban scale of ordinary RC and masonry buildings with indirect or mechanical approaches; risk scenarios. Inventory, vulnerability and fragility analysis of strategic buildings and infrastructures (school buildings, bridges, industrial structures) by rapid screening methods and mechanical approaches.

T16] Applications of geographic information systems in vulnerability and risk analysis at urban and regional scales.

6.2. Research Activity

The scientific activity began in July 1994 in the Department of Structural Engineering of the Polytechnic of Bari, where she had done his thesis entitled "Stochastic dynamics of systems with seismic protection", speakers proff. A. Sollazzo and M. Mezzina. This period has been dedicated to enriching the knowledge on the basic themes of Structural Mechanics and Computational Mechanics.

In January 1995 she began his PhD in Computational Mechanics at the Department of Structures of the University of Calabria, where she continued his training. At the same time, she also developed his activity at the Faculty of Architecture of the Politecnico di Bari, with reference to the structural problems of monuments and historical buildings.

In the first period of her PHD she deepened her knowledge of basic topics:

general theory of plasticity, incremental elasto-plasticity, holonomic elasto-plasticity, geometric non-linearity (instability and sensitivity to imperfection of slender elastic structures), methods of numerical calculation of structures and spatial-temporal discretization (finite elements, analysis algorithms step by step integration of nonlinear constituent bonds - in particular arc-length methods), perturbative algorithms.

She has also consolidated his knowledge of algorithms and numerical methods for automatic structural calculation applications, with particular regard to object programming in the Pascal and C++ languages.

Particular interest has been dedicated to Micromechanics, Fracture and Damage Mechanics, Homogenization techniques, especially with reference to their use in the constitutive modeling of almost fragile materials and in Masonry Mechanics, the subject of the Doctoral Thesis and early scientific work.

These themes have also been developed in the context of the seminars and courses followed at the headquarters of the Doctorate and at the Politecnico di Milano and come together in the research work of the Doctorate, aimed at identifying analysis tools capable of efficiently simulating the complex behavior of masonry structures and the essentially non-linear characteristics of their response. To this end, both theoretical aspects of constitutive modeling and algorithmic and computational aspects have been addressed, developing a proprietary code of calculation in a Delphi environment.

This activity has also been completed by the deepening of both theoretical and practical problems related to the modeling and calculation of masonry structures, the proper design organization, and the implementation of consolidation interventions. In particular, the principles and design criteria for masonry constructions contained in the new Italian regulations were carefully analysed, on the collaboration with the "Commentary on the Ministerial Decree 16.01.'96 of the LL.PP. Ministry". ANIDIS-SSN.

With reference to these issues, in 1998 she participated in the organization of a project of national interuniversity interest funded by MURST as part of the 1998 co-funding entitled: "Development of an integrated strategy for the modeling, analysis and verification of masonry buildings", a project coordinated by Prof. R. Casciaro involving the Universities of Calabria, Rome III, L'Aquila, Palermo and

Padua. The development of this line of research, in collaboration with the scholars of these universities, with which she has worked constantly in recent years, have led to the development of a multiscale approach to the analysis of masonry structures. In addition, research has continued the themes of instability of slender elastic structures, with particular reference to perturbative algorithms for the analysis of sensitivity to imperfections and modal interaction.

During her years at the Faculty of Architecture of the Polytechnic of Bari (1994-2011) she improved her skills in the field of seismic and structural vulnerability of existing buildings, in the restoration and consolidation of historical and modern buildings, collaborating with Italian scholars in the field and participating in various projects and research activities (among which: Diocletian's palace in Split, Hagia Sophia in Istanbul, the historic center of Aleppo, the first realizations in reinforced concrete and the monumental heritage "modern") deepening, among other things, the themes of traditional construction in cut stone in relation to the organization and structural calculation, and updating with respect to the current needs of static safety.

She has also deepened the topic of Seismic Risk, particularly with regard to the protection of architectural heritage and monumental buildings from earthquakes, the structural problems of historical buildings in seismic zones, scenario and risk analyses at urban level, also with the help of information tools and innovative approaches in data management and processing (territorial and "structural" information systems).

These issues have been the subject of several national research projects, including Prin 2003 "Structural safety of traditional masonry construction and intervention strategies. a case study in Calabria: information system for the recovery of the historic village of Laino Castello", to whose organization she has contributed significantly. These themes were continued in the following years, during the activity at the Faculty of Engineering of the Politecnico di Bari, with the development of projects and research agreements developed in the Apulian territory and within the Research Lines of Reluis/DPC projects, currently underway.

About structural vulnerability of existing buildings, application and experimental aspects have also been developed for structural diagnostics for traditional masonry buildings (non-destructive or limited destructive diagnostics of masonry and wooden elements, monitoring of cracked squares) and for reinforced concrete buildings (rebound and ultrasonic tests, measurement of corrosion potential and resistivity, monitoring of cracked squares). The most recent research developments concern the proposal and validation of methods to improve the reliability of in situ tests on concrete through the correlation between different direct and indirect parameters. In these sectors, the undersigned possesses specific application and technical, as well as theoretical skill.

As far as reinforced concrete constructions are concerned, the themes of Restoration of Diagnostic and Structural Rehabilitation have been included in the study of the first historical modern reinforced concrete constructions and architectures, which are also the subject of various research projects and scientific collaborations with external bodies.

The theme of masonry building modelling has been continued, with national and international scientific collaborations, expanding the theoretical and applicative reference framework in the field of modelling with discrete approaches to masonry masses and springs, and developing computationally efficient applications and analyses in the non-linear field. Some specific issues dealt with concerned the application and comparison of static and dynamic non-linear analysis methods, the use of artificial/natural accelerograms, the problem of dynamic soil-structure interaction. In particular, the applications concerned churches, bell towers, aggregate masonry buildings.

A theme that combined experience in the masonry sector with an interest in reinforced concrete construction was then that of the analysis of buildings framed in reinforced concrete, taking into account the contribution of buffering panels on the global seismic response, and on panel modelling approaches. This theme has become central in recent years, as evidenced by numerous research activities, projects and scientific publications.

6.3. Scientific Responsibility in research grants

April 2020-April 2022

Scientific responsible of the biennial Research Grant entitled: "Development of a decisional platform based on a system of data collection and analysis of hazard, vulnerability and seismic and geomorphological risk, census and evaluation of the effectiveness of interventions", financed by ADISU-Puglia following a competitive call for proposals (€ 50,000) to be held at the Politecnico di Bari and the Puglia Region.

February 2020-February 2021

Scientific responsible of the Annual Research Grant entitled: "Development of Reduced-order computational models and probabilistic fragility functions for the seismic assessment of existing RC buildings at the regional scale. Polytechnic University of Bari. Scientific Responsible: Prof. Giuseppina Uva (25.000 €)

April 2021-November 2021

Scientific responsible of the 6 months Research Grants (32.400 €):

- "Recognition and analysis of the elements of urban criticality, analysis of the interferences in the transport networks and infrastructures city-port also in function of the urban development scenarios";
- "Analysis of the relationship between the port of Bari and the city with the use of geographic information software".
- "*Organization of the communication plan, organization of thematic events, interventions and discussion of the achieved results.*"

December 2017-December 2018

Scientific responsible of the Annual Research Grant entitled "Advanced strategies of numerical modelling and non-linear analysis of existing RC buildings under seismic actions". Polytechnic University of Bari, Scientific Responsible: Prof. Giuseppina Uva (25.000 €).

July 2015-July 2016

Scientific responsible of the Annual Research Grant entitled "Development of computational multi-strut models for in-plane infill panels of RC buildings". Polytechnic University of Bari, Scientific Responsible: Prof. Giuseppina Uva (25.000 €).

November 2011-July 2013

Scientific responsible of the 18-months Research Grant entitled "Development of capacity models for the assessment of strategic buildings". Polytechnic University of Bari, Scientific Responsible: Prof. Giuseppina Uva (37.500 €).

October 2008-October 2010

Scientific responsible of the two-year research grant entitled "Seismic risk mitigation and intervention strategies: integrated models for the assessment of structural vulnerability and site effects managed with GIS systems". Polytechnic University of Bari, Scientific Responsible: Prof. Giuseppina Uva, (50.000 €).

6.4. Research Projects and Contracts

Responsibility

2021

Agreement between Dicatech Department of Politecnico di Bari and FABRE Consortium: "Technical-scientific support for the development of the methodology for the census, initial inspections and identification of the Attention Classes of a sample of bridges and viaducts managed by Anas Spa; prioritization of level 4 assessment operations; verification of quality and homogeneity of results". (117.986,4 € plus VAT), Scientific Responsibles Prof. Giuseppina Uva, Vincenzo Simeone.

Agreement between Dicatech Department of the Politecnico di Bari and FABRE Consortium for: "Technical-scientific support to the application of the guidelines of the Superior Council of Public Works for risk classification and management, safety assessment and monitoring of existing bridges managed by concessionary subsidiaries of the ASTM S.p.A. Group". (7.200 € plus VAT), Scientific Responsibles Prof. Giuseppina Uva, Vincenzo Simeone.

University Research Funds. Polytechnic of Bari.

Research project "Assessments and scenarios of integrated seismic and hydrogeological risk at territorial scale". Responsible: Giuseppina Uva (Amount 2.954,51 €)

2021-2024

Framework Agreement between Dicatech Department of Politecnico di Bari and FABRE Consortium for issues related to risk assessment, safety verification and control and monitoring of bridges, viaducts and existing works of road and railway infrastructures, with reference to both operational actions and natural phenomena". Resp. Scient. Prof. Giuseppina Uva, Vincenzo Simeone.

2020-2021

Agreement between Dicatech Department of the Politecnico di Bari and the Municipality of Panni (FG) for "Activities of scientific support to the knowledge of typological, structural and construction characters of the residential building of the Municipality of Panni and to the mapping and analysis of structural and seismic vulnerability". Amount 20.000 €; Resp. Scient. Proff. Giuseppina Uva, Domenico Raffaele.

Agreement between the Dicatech Department of the Politecnico di Bari and the Municipality of Monteleone (FG) for "Scientific support to the knowledge of typological, structural and construction characters of the residential building of the municipality of Monteleone and to the mapping and analysis of structural and seismic vulnerability". Amount 20.000 €; Resp. Scient. Proff. Giuseppina Uva, Domenico Raffaele.

2019-2020

"**Agreement for scientific-technological cooperation between Bari Polytechnic University and the South Adriatic Sea Port System Authority** for the performance of dynamic characterisation and structural monitoring activities aimed at controlling the effects of environmental vibrations in Marisabella area on the Passenger Terminal building - FF.SS.". Resp. Giuseppina Uva, Domenico Raffaele. Amount 38.000 €.

2019-2020

Research Project "Reluis-DPC (Italian National Dept of Civil Protection) 2019-2021"

WP2: CARTIS - Inventory of existing structural typologies in Italy; Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (30000 €); **WP11: Contribution to the Italian Building code for existing RC buildings;** Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (15000 €).

2018

Research Project "Reluis-DPC (Italian National Dept of Civil Protection) 2014-2018

Research Line PR2 – "RC and prefabricated structures": WP1 – Vulnerability of existing buildings at the

regional scale; WP2 – Implicit Risk of RC structures; WP6 Seismic capacity of infill panels and retrofitting interventions. Research Unit: Polytechnic University of Bari -Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**9.375 €**).

Research Line TT1 _ITSEE - Inventory of existing structural typologies in Italy; Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**5.600 €**).

2017

Research Project “Reluis-DPC (Italian National Dept of Civil Protection) 2014-2018

Research Line PR2 – “RC and prefabricated structures”: WP1 – Vulnerability of existing buildings at the regional scale; WP2 – Implicit Risk of RC structures; WP6 Seismic capacity of infill panels and retrofitting interventions. Research Unit: Polytechnic University of Bari -Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**9.375 €**).

Research Line TT1 _ITSEE Inventory of existing structural typologies in Italy; Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**5.600 €**).

Research Agreement Between Autorità di Bacino Puglia-Dipartimento Dicatech.

“Redazione delle Linee Guida esplicative e validazione degli elaborati relativi alle verifiche di vulnerabilità degli edifici scolastici in alcuni comuni della Provincia di Foggia”. Currently responsible for the continuation and conclusion of the project (from July 2015). Prof. Giuseppina Uva. (Importo: **49.180 + IVA**)

2016

Fondi di Ricerca di Ateneo. Politecnico di Bari.

Research Project “Valutazioni e scenari di rischio integrato sismico e idrogeologico a scala territoriale”. Responsible: Giuseppina Uva (Importo **950 €**)

Research Project “Reluis-DPC (Italian National Dept of Civil Protection) 2014-2018

Research Line PR2 – “RC and prefabricated structures”: WP1 (ELEM): Seismic capacity of RC structural elements: beams, columns and shear walls. WP3 (RISP) – Seismic analysis of structural RC systems, TASK 3.4 Interaction of non-structural elements and definition of the seismic demand; WP4 (INTE) – Intervention strategies and techniques for RC buildings, TASK 4.2 Appraisal of interventions’ effectiveness.

Research Line TT1_ITSEE - Inventory of existing structural typologies in Italy; Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**16.750 €**).

2015

Research Project “Reluis-DPC (Italian National Dept of Civil Protection) 2014-2018

Research Line PR2 – “RC and prefabricated structures”: WP1 (ELEM) - Seismic capacity of RC structural elements: beams, columns and shear walls; WP4 (INTE) – Intervention strategies and techniques for RC buildings; WP6 (TERR) – Vulnerability of existing RC buildings at the regional scale. Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**12.500 €**).

2014

Research Project “Reluis-DPC (Italian National Dept of Civil Protection) 2014-2018

Research Line PR2 – “RC and prefabricated structures”: WP1 - Seismic capacity of RC structural elements: beams, columns, nodes and shear walls; WP3 – Seismic analysis of structural RC systems. Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Giuseppina Uva (**15.000 €**).

2012

Fondi di Ricerca di Ateneo. Polytechnic University of Bari.

Progetto di ricerca “*Modellazione del contributo delle tamponature nell’analisi sismica non lineare di edifici intelaiati esistenti in ca: sviluppo di modelli multi-biella calibrati con analisi numeriche RBSM e ad elementi distinti*”. Responsible scientifico: Giuseppina Uva (Importo **3576 €**).

2001

Research Project “Young Researchers” funded by FRA- Polytechnic University of Bari: “Typological and

constructive improvement of traditional vaulted systems for the contemporary use of stone: structural analysis aimed at the optimization of the system, improvement of the performance and rational incorporation of equipments”: Scientific Responsible: Giuseppina Uva

1999

Research Project “Young Researchers” funded by FRA- Polytechnic University of Bari: Progetto di ricerca “*Muratura portante: modellazioni costitutive dei fenomeni di danneggiamento e di scorrimento. analisi statica e dinamica di pannelli in muratura tradizionale ed armata*”. Responsible: Giuseppina Uva. (importo: 5.000.000 Lire)

Participations

2017 – 2018

Interreg Project ADRION V-B Transnational 2014-2020: Research Project “FUTURE 4.0.” (funded with 842.822,00 €). Partner: Polytechnic University of Bari, Scientific Responsible Prof.ssa Maria Pia Fanti.

2010 – 2013

Research Project “Reluis-DPC (Italian National Dept of Civil Protection) 2010-2013

Research Line 1.1.2 – “RC and prefabricated structures: New aspects in the assessment of existing buildings, retrofitting interventions and seismic risk assessment at the regional scale”. Research Unit: Polytechnic University of Bari - Dicatech, Scientific Responsible: Prof. Mauro Mezzina (**45.000 €**).

2010-2014

Research Contract between Polytechnic University of Bari and Basin Authority of Puglia: “*Definition of Guidelines for the Seismic vulnerability assessment of School Buildings in the Province of Foggia (IT)*”. Scientific Responsible: Prof. Mauro Mezzina (**100.000 €**).

2010-2011

Research Contract between Polytechnic University of Bari and the Regional Office of Puglia for the Right to Education: “*SPREPAS-Preliminary assessment of school buildings in Puglia*”. Scientific Responsible: Prof. Mauro Mezzina, Prof. G. Marano (**70.000 €**).

2009-2010

Research Contract between Polytechnic University of Bari and Basin Authority of Puglia: “*Antaeus – Regional analysis of hazard and structural vulnerability*”. Scientific Responsible: Prof. Mauro Mezzina (**250.000 €**).

2008

Research project financed by Fondazione Cassa di Risparmio di Puglia: “*Metodologie di analisi e recupero dei tessuti urbani e tipi edilizi nei contesti culturali del Mediterraneo: Puglia e Terrasanta*”. Scientific Responsible: Prof. Mauro Mezzina, Prof. Attilio Petruccioli, Politecnico di Bari (**70.000 €**).

2005-2008

Research project DPC/RELUIS 2005-2008. Reluis-Dept. ICAR del Politecnico di Bari

Research Line 2 - ND methodologies for knowledge of existing structures and calibration of confidence factors. Unità n. 13: “*Valutazione e riduzione della vulnerabilità di edifici esistenti in c.a.*”. Scientific Responsible: Prof. Mauro Mezzina, Politecnico di Bari.

2006

PRIN 2006: “*Strategie di mitigazione della vulnerabilità strutturale e del rischio sismico nei centri antichi del mediterraneo orientale. Il caso di Gerusalemme e Tripoli: case ed edilizia specialistica.*” (project duration 12 months), resp. Prof. Attilio Petruccioli, Politecnico di Bari. Local UR Università della Calabria.

2004

PRIN 2004: “*Metodologie di analisi e recupero di tessuti urbani e tipi edilizi nei contesti interculturali dei centri storici del mediterraneo orientale*”. (project duration 12 mesi), national resp. Prof. Attilio Petruccioli, Politecnico di Bari. Local UR Università della Calabria.

Progetto di Ricerca FCRP (Fondazione Cassa di Risparmio di Puglia) – Dipartimento ICAR del Politecnico di Bari: “*Mitigazione del rischio sismico e strategie di intervento*”, Responsible Prof. Mauro Mezzina.

2003

PRIN 2003: “*Sicurezza strutturale dell’edilizia muraria tradizionale e strategie di intervento. un caso di studio in Calabria: sistema informativo per il recupero del borgo storico di Laino Castello*”. (durata progetto 24 mesi), Politecnico di Bari, resp. nazionale Prof. Mauro Mezzina.

2002

Fondi di Ateneo (ex 60%): “*Gestione integrata della Riabilitazione Strutturale: interventi di diagnostica e consolidamento di costruzioni d’epoca in calcestruzzo armato*”. Responsible Prof. Mauro Mezzina.

Progetto di Ricerca CETMA-ISUFI-Politecnico di Bari-Politecnico di Milano–INOA-EIEn- ATS, finanziato con fondi PON: “*S.I.D.ART – Sistema Integrato per la Diagnostica dei beni Artistici*” (durata progetto marzo 2002-marzo 2006). Responsible delle Unità del Politecnico di Bari: Prof. Mauro Mezzina.

2000

Progetto di Ricerca “Giovani ricercatori” - Linea di ricerca 26 - Identità mediterranee: unità e fratture fra antico e moderno finanziato dal CNR. Progetto di ricerca “*Città del bacino del Mediterraneo: recupero e valorizzazione dell’identità comune dei centri antichi*”. Responsible: Giuseppe Berardi.

1999

Convenzione CNR-IRIS-Politecnico di Bari: “*Strategie di raccordo tra innovazione e tradizione delle tecniche sostenibili per il restauro ed il recupero degli edifici e della città storica*”; Politecnico di Bari, resp. Prof. Angelo Ambrosi.

Convenzione ENEA – Politecnico di Bari: “*PROGETTO DITECE - Metodologie e tecniche per la diagnostica sperimentale nella valutazione della danneggiabilità di edifici in cemento armato e muratura*”, Responsible della UR del Politecnico di Bari Prof. Mauro Mezzina.

1998

PRIN 1998: “*Sviluppo di una strategia integrata per la modellazione, l’analisi e la verifica di costruzioni in muratura*”, (durata progetto 24 mesi), Università della Calabria, resp. nazionale Prof. Raffaele Casciaro.

Convenzione CNR-GNDT: “*Valutazione di agibilità per edifici in muratura*”, Politecnico di Bari, resp. Prof. Mauro Mezzina.

1997

Fondi di Ateneo (ex 60%): “*Modelli e metodi per strutture murarie in zona sismica: aspetti teorici e strategie numeriche*”; Politecnico di Bari, resp. Prof. Mauro Mezzina

1996

MURST 60%: “*Edifici in muratura portante in zona sismica: strategie per la mitigazione degli effetti*”, Politecnico di Bari, resp. Prof. Mauro Mezzina.

MURST 40%: “*Tecnologie innovative per la mitigazione degli effetti delle vibrazioni nei sistemi strutturali*”; Politecnico di Bari, resp. Prof. Mauro Mezzina.

1995

MURST 40%: *Efficacia dei dispositivi di protezione sismica*, Politecnico di Bari, resp. Prof. Mauro Mezzina.

6.5. Scientific Committees, Conference Organisation, Workshops and Mini-symposium

Member of the editorial board of the International Journal “Buildings” (MDPI, ISSN 2075-5309, CiteScore 2.8, SJR 2019 048; Q1 Architecture, Q2 Structural and Civil Engineering; Q2 Building and Construction).

Guest Editor Special Issue " Structural dynamics and analysis of civil structures and engineering materials", Buildings, MDPI (co guest eds: S. Ruggieri - Politecnico di Bari, V. Diana - Politecnico di Milano).

Enrolled in the Reprise Register of Scientific Experts of the MIUR by 19/02/2018.

Member of the Scientific Committee of the “4th International Conference on Recent advances in Nonlinear Design, Resilience, and Rehabilitation of Structures- CoRASS 2023”, a Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). Coimbra, Portugal, 16th-18th October 2023.

Member of the Scientific Committee of the “1st Italian Congress “Existing bridges, viaducts and tunnels: research, innovation and applications”. Lucca 2-4 February, 2022

Co-organizer of the Special Session " The new boundaries of environmental, territorial and building risk analysis" (with J. Adam, V. Sangiorgio), **2019 IEEE International Conference** on Systems, Man, and Cybernetics, Bari 6-9 october 2019.

Member of the Scientific Committee of the “3rd International Conference on Recent advances in Nonlinear Design, Resilience, and Rehabilitation of Structures- CoRASS 2019”, a Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). Coimbra, Portugal, 16-17 October 2019.

9 November 2017, Bari. Ordine degli Ingegneri della Provincia di Bari – Polytechnic University of Bari. **Organization and coordination of the Workshop: New opportunities for infrastructural, environmental and economic development: materials for slow mobility and rainwater management.**

12 July 2016, Bari. Ordine degli Ingegneri della Provincia di Bari – Polytechnic University of Bari. Organization and coordination of the Workshop (together with Prof. D. Raffaele) on eco-friendly constructions “LET’S DESIGN OUR FUTURE²”, Politecnico di Bari,

Member of the Organizing Committee of the XIV National Conference “L’ingegneria sismica in Italia”, Bari 18-22 Settembre 2011.

Member of the Scientific Committee of the XIV National Conference “L’ingegneria sismica in Italia”, Bari 18-22 Settembre 2011.

Co-Organizer of the Special Session “Two years of application of NTC2008: critical aspects and solutions” in the XIV National Conference “L’ingegneria sismica in Italia”, Bari 18-22 Settembre 2011.

6.6. Activity as a reviewer for international journals

In the last 5 years she has been **reviewer** for the following international journals (ISI and Scopus accredited):

- Journal of Earthquake Engineering
- International Journal of Solids and Structures
- Earthquake Engineering and Structural Dynamics
- Engineering Structures
- Construction and Building Materials
- Bulletin of Earthquake Engineering
- International Journal of Architectural Heritage
- International Journal of Masonry Research Innovation
- Structures
- Engineering and Computational Mechanics

6.7. Activity as a chairman

- **Chairman of Session III:** Structural Health Monitoring, Retrofitting of Existing Structure; **3rd International Conference on International Conference on Recent Advances in Nonlinear Design, Resilience and Rehabilitation of Structures – Corass**, 16-18 ottobre 2019, Coimbra, Portugal.

- **Chairman of Special Session “The New Boundaries of Environmental, Territorial and Building Risk Analysis”, IEEE SMC 2019**, 2019 IEEE International Conference on Systems, Man, and Cybernetics, Bari 6-9 October 2019.
- **Chairman in the 14° National Conference “L’ingegneria sismica in Italia”**, session “Sicurezza delle costruzioni esistenti, miglioramento e adeguamento sismico”
- **Chairman in the 14° National Conference “L’ingegneria sismica in Italia”** session “Vulnerabilità e rischio sismico”.
- **Chairman in the 14° National Conference “L’ingegneria sismica in Italia”**, session “Monitoraggio e diagnostica strutturale mediante identificazione dinamica”.

6.8. Invited Lectures workshops

9 ottobre 2021 Bari SAIE 2021. Workshop: “Analysis and seismic verification of masonry buildings: point of the situation and recent evolutions”. Scientific Coord. Prof. Sergio Lagomarsino and Prof. Enzo Martinelli.

Invited Lecture: Prof. Giuseppina Uva – *“Problematiche di Modellazione nelle analisi di vulnerabilità degli edifici in aggregato: dalla scala dell’edificio ai contesti urbani.”*

3 May 2017, Andria.

Ordine degli Ingegneri della Provincia di Barletta-Andria-Trani, - Fondo ambientale Italiano. Workshop “SISMA AND HISTORICAL ARCHITECTURAL HERITAGE: KNOWLEDGE, STRATEGIES”. **Invited Lecture:** "Structural vulnerability and architectural heritage: investigations, analyses, models".

7th November 2016.

Invited Lecture: "Structural security and innovation, a look at research". Conference ENERGY EFFICIENCY, STRUCTURAL SAFETY AND HABITATIVE COMFORT - Ance Bari, Barletta-Andria-Trani; Confindustria Bari and BAT. Headquarters Confindustria Bari-Bat, Bari.

10-18 September 2016.

Bari, 80th Fiera del Levante. Exhibition "Tornare alla Vita. Puglia for reconstruction". Fiera del Levante, Regione Puglia, Protezione civile, Politecnico di Bari, Università di Bari, Comune di Bari, Camera di Commercio. **Coordinator of the stand** "Seismic Risk and Mitigation Strategies for Built Heritage", and **expert speaker** at the thematic forums "Seismic Risk and Mitigation Strategies".

12th July 2016.

Polytechnic University of Bari. Politecnico di Bari, Ordini Professionali degli Ingegneri della Provincia di Bari e degli Architetti della Provincia di Bari. Technical-Scientific Seminar "Let's plan our future": **Co-organiser and Supervisor** on the theme: "The perspectives of re-use and enhancement of the existing masonry building heritage between tradition, modern performance standards and seismic safety".

18th May 2015. Mesagne (BR).

Ordine degli Architetti PPC della Provincia di Brindisi, Ordine degli Ingegneri della Provincia di Brindisi, Ordine degli Architetti PPC della Provincia di Taranto, Ordine degli Ingegneri della Provincia di Taranto, Collegio Provinciale Geometri e Geometri Laureati di Brindisi, Collegio Provinciale Geometri e Geometri Laureati di Taranto. Conference: "Existing building heritage: methodologies for the recovery and reinforcement of horizontal structures in an earthquake-proof perspective". **Invited Lecture:** "Earthquake safety and recovery and enhancement of the existing building heritage".

27 March 2015. Bari.

O.A.P.P.C. della Provincia di Bari. Conference "Existing building heritage: methodologies for the recovery and reinforcement of horizontal structures in an earthquake-proof perspective". **Invited Lecture:** "Anti-seismic safety and interventions for the recovery and enhancement of the existing building heritage".

12th November 2014.

LUP-Laboratorio di Urbanistica Partecipata, O.A.P.P.C. - Provincia di Bari, Ordine degli Ingegneri - Provincia di Bari, ARTI – Agenzia Regionale per la Tecnologia e l’Innovazione, A.N.C.E. Puglia e Bari-BAT. “Reactivity

Reloaded - Urbanistica di Strada”. **Invited Lecture:** "La sicurezza anti sismica e gli interventi di valorizzazione e dismissione del patrimonio pubblico".

12th April 2013. Bari.

Sala convegni Ordine degli Architetti P.P.C. e Ordine degli Ingegneri della Provincia di Bari. **Invited Lecture:** "Seismic vulnerability testing plans for existing strategic buildings under the NTC: the experience of the Puglia Region for school buildings in the Province of Foggia".

22 May 2012. Bari.

conference room Ordine Architetti e P.P.C. Ordine degli Architetti P.P.C. and Ordine degli Ingegneri della Provincia di Bari. Cycle of meetings on Seismic Vulnerability of Civil Construction: assessment procedures, safety checks and controls on site. **Invited Lecture:** "The regulatory approach to knowledge and investigation in safety and vulnerability testing of existing load-bearing masonry constructions".

14 July 2006. Lahore, Pakistan.

OCCO-Office for Conservation & Community Outreach. **Invited Lecture** "Understanding Seismic Risk: Structural vulnerability assessment for traditional masonry constructions".

14-15 May 2004. Palazzo dei Congressi, Foggia.

Technical-professional seminar "Design and calculation of timber constructions" (coord. Prof. Ing. M. Mezzina, Prof. Arch. F. Laner). **Invited Lecture:** "Normative, Eurocode, and Nicole".

2001 - Tokyo. International Conference Hagia Sophia Surveying Project Conference. **Invited Lecture:** "An insight into the structural behaviour of Hagia Sophia through the analysis of deformative and cracking patterns".

6.9. Participation in conferences as a speaker in the last 15 years (23 conferences; 33 oral presentations)

- 1) **2019 3rd International Conference on Recent Advances in Nonlinear Design, Resilience and Rehabilitation of Structures – Corass**, 16-18 October 2019, Coimbra, Portugal. Co-author of 3 papers published in the Proceedings. Presentation: *Some applications of a displacement-based procedure for the seismic response of continuous girder RC-bridges*.
- 2) **2018 - DSCS 2018, 2nd International Workshop on Durability and Sustainability of Concrete Structures** 6-7 June 2018, Moscow. Co-author of 1 paper published in the Proceedings. Presentation: *Influence of modeling assumptions on RC existing buildings* [http://www.aciitaly.com/events/dscs2018/index.php]
- 3) **2017 – MetroArchaeo 2017, Imeko International Conference on Metrology for Archeology and cultural heritage. 23-25 ottobre 2017, Lecce.** Co-author of 1 paper published in the Proceedings. Presentation: *"Some applications of rigid body and spring models for the seismic analysis of historical masonry structures"; "Structural vulnerability assessment of masonry churches supported by user-reported data"*. [http://www.metroarcheo.com/metroarcheo2017/]
- 4) **2016 - SBE16: International High-Performance Built Environments Conference**, Australian National Maritime Museum. Sydney, 17 – 18 November 2016. Presentation: *"Modelling framework for sustainable co-management of multi-purpose exhibition systems: the "Fiera del Levante" Case"*; G. Uva et al. Paper published in the Proceedings and on Elsevier's Procedia Engineering Journal. [http://www.sbe16sydney.be.unsw.edu.au/program.html].
- 5) **2016 – 4th Workshop on “New Boundaries of Structural Concrete”**, University of Naples Federico II – ACI Italy Chapter, Anacapri, Italy, September 29th – October 1st. Co-author of 3 papers published in the Proceedings. Presentation: *Evaluation and acceptance of concrete quality by in-place testing*.
- 6) **2014 – 1st WORKSHOP on the State of the Art and Challenges of Research Efforts @POLIBA**; 3-5 dicembre 2014, Politecnico di Bari, Italy. Co-author of 3 papers published in the Proceedings. Presentation: *Seismic vulnerability assessment of masonry towers: advanced nonlinear dynamic modelling*.
- 7) **2013 – XV Convegno Nazionale "Anidis 2013: L'Ingegneria Sismica in Italia"**; Padova, 1-4 luglio 2013.

Co-author of 2 papers published in the Proceedings. 2 Presentations: "Solidarizzazione delle Tamponature per Il Miglioramento Sismico di Edifici Esistenti", "Un Approccio Analitico per la Valutazione degli Effetti Irrigidenti dei Tamponamenti nei Telai In C.A".

- 8) **2011 – XIV Convegno nazionale “Anidis 2011: L’Ingegneria sismica in Italia”**; 18-22 September 2011, Bari, Italy. Co-author of 8 papers published in the Proceedings. 6 Presentations: "Analisi sismica non lineare statica e dinamica di torri campanarie: applicazioni e confronti"; "Effetti delle tamponature sulle prestazioni sismiche di edifici esistenti in c.a.: problemi di analisi e modellazione"; "Progetto Antaeus: una metodologia di valutazione della vulnerabilità dell’edilizia diffusa nella provincia di Foggia"; "Applicazione della metodologia “Antaeus” per la stima della vulnerabilità di livello 1 nella Provincia di Foggia."; "Effetti delle tamponature sulle prestazioni sismiche di edifici in c.a.: problemi di analisi e modellazione"; "Proposta di un modello per l’analisi di Vulnerabilità di pile da ponte monofusto in C.A. a sezione circolare".
- 9) **2011 – COMPDYN 2011.** 3rd International Conference Computational Methods in Structural Dynamics and Earthquake Engineering; 24-28 May 2011, Corfu, Greece. Co-author of 1 paper published in the Proceedings and indexed in Scopus DB. Presentation: "Seismic vulnerability assessment of masonry towers: full non-linear dynamics vs pushover analyses".
- 10) **2010 – IV European Conference on Computational Mechanics**, Paris, France, May 16-21, 2010. Presentation: "Macro-scale dynamic modelling of out-of-plane collapse of masonry façades accounting for texture quality".
- 11) **2009 – COMPDYN 2009.** 2nd International Conference Computational Methods in Structural Dynamics and Earthquake Engineering; 22-24 June 2009, Island of Rhodes, Greece. Coautrice di un Co-author of 1 paper published in the and indexed Scopus. Presentation: "Seismic vulnerability assessment of masonry towers: full non-linear dynamics vs pushover analyses".
- 12) **2009 – XIII Convegno “ANIDIS 2009: L’Ingegneria sismica in Italia”**, Bologna, June 28 – July 2, 2009 Co-author of 1 paper published in the proceedings and indexed in Scopus. Presentation: "Stima del rischio sismico territoriale con dati poveri: Risk Rating per la Provincia di Foggia".
- 13) – **9th UC Conference on Computational Mechanics**, 23-26 July 2007, San Francisco. Presentation: "A Multiscale Strategy for Improving Nonlinear Fe Analysis of Periodic Masonry Brickwork in The Presence of Damage and Friction".
- 14) – **COMPDYN 2007.** 1st International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering; M. Papadrakakis, D.C. Charmpis, N.D. Lagaros, Y. Tsompanakis (eds.), Rethymno, Crete, Greece, 13-16 June 2007. Co-author of 1 paper published in the proceedings and indexed in Scopus DB. Presentation: "Out-Of-Plane Seismic Response of Masonry Façades: A Comparison Among Full Dynamic and Pushover Analyses".
- 15) **2007 – XII Convegno ANIDIS “L’Ingegneria sismica in Italia”**, Pisa, 10-14 giugno 2007. Co-author of 1 paper published in the proceedings. Presentation: "Valutazioni di vulnerabilità delle costruzioni in cemento armato e sistemi esperti".
- 16) **2006 – V International Conference on Structural Analysis of Historical Constructions – SAHC 2006, New Delhi, 6-8 november 2006.** Co-author of 2 papers published in the Proceedings. Presentations: "Structural Seismic Risk Assessment of Traditional Masonry Buildings: The Case of the Historical Italian Town of Laino Castello". "A multiscale approach for the analysis of block masonry under damage and friction".
- 17) **2006 – 2nd Fib Congress 2006**, ISBN 88-89972-06-8. Napoli June 2006. Co-author of 2 papers published in the Proceedings. Presentations: "R.C. technology in Italy at the beginning of 20th century. A historical journey through the work of the Porcheddu society". "Application of ND Protocols to R.C. Structures built at the Beginning of 20th Century. The Assessment of a “Porcheddu Society”’s Structure in the City of Bari".
- 18) **2004 – XI Convegno Nazionale Anidis 2004: “L’Ingegneria Sismica in Italia”**, Genova January 25-29 2004. Co-author of 2 papers published in the proceedings. Presentation: "Degrado e riabilitazione strutturale delle architetture in cemento armato: la crisi della modernità?".
- 19) **2004 – 15° Congresso C.T.E.**, Bari, 4-5-6 november 2004. Co-author of 2 papers published in the Proceedings. Presentation: "Degrado e riabilitazione strutturale delle Architetture in cemento armato: il patrimonio infrastrutturale delle Ferrovie Appulo-Lucane a Bari".

- 20) **2003 – I International Congress on Construction History**, Madrid 20-24 January 2003. Co-author of 2 papers published in the Proceedings. Presentations: "Learning from Traditional Vaulted Systems for the Contemporary Design. An Updated Reuse of Flat Vaults: Analysis of Structural Performance and Recent Safety Requirements". "Historical Examples of Early Reinforced Concrete Structures. The Viaduct of Corso Italia in Bari: a Hypothesis for the Reuse".
- 21) **2003 – II Convegno scientifico nazionale “Sicurezza nei sistemi complessi”**; Bari 16-17 ottobre 2003. Co-author of 5 papers published in the Proceedings. 2 Presentations: "Analisi di sicurezza di strutture elastiche snelle: un algoritmo perturbativo per l'analisi di sensibilità all'imperfezione". "Prestazioni delle prime realizzazioni in calcestruzzo armato: una esperienza di diagnostica applicata al patrimonio delle Ferrovie Appulo Lucane a Bari".
- 22) **2002 – V World Congress on Computational Mechanics (WCCM V)**, July 7-12 2002, Vienna, Austria. Co-author of 1 paper published in the proceedings. Presentation: "A Two-Scale Algorithm for the Nonlinear Analysis of Damaging Masonry Brickwork".
- 23) **2001 – X Convegno nazionale ANIDIS 2001: “L’Ingegneria Sismica in Italia”**, Potenza e Matera, 10-13 Settembre 2001. Co-author of 1 paper published in the proceedings. Presentation: "Il comportamento strutturale di Hagia Sophia: Analisi dei dissesti e caratterizzazione costitutiva delle murature".

6.10. National and international scientific collaborations

2001-2007

Participation in the research group characterised by collaboration at national level on the theme "Diagnostics of monumental and artistic heritage", CETMA-ISUFI-Politecnico di Bari-Politecnico di Milano-INOA-EIEn-ATS. The research has been developed in the framework of the national co-funded Project PON (Area per il Mezzogiorno, University-Industry). "S.I.D.ART - Sistema Integrato per la Diagnistica dei beni Artistici". The results of the research have been collected in the Volume: "The Conservation of the Historical and Architectural Heritage. Metodi e strumenti, 2007 (edited by N. Milella)", which includes the contributions of the group of the Polytechnic of Bari (publication #146 [NBC.21]).

2001-2008

Co-direction of a research group characterized by collaboration at national level on the theme "Multi-scale approach for the Nonlinear Analysis of Masonry structures accounting for damage and plasticity", Politecnico di Bari, University of Rome 3, University of Calabria, responsible: Prof. Giuseppina Uva (Politecnico di Bari), Prof. Ginevra Salerno (University of Rome 3). The results of the research have been presented in several national and international conferences since 2002 (V WCCM) and published in the proceedings and in international journals (publications #46 [IJP.44]; #112, 119 [CP.19, 26]; #201, 203, 207, 208 [IR.01, 03, 07, 08]).

2002-2008

Co-direction of a research group on the theme "Safety and conservation of reinforced concrete buildings from the early 1900s". (Polytechnic University of Bari, University of Cagliari, University of Calabria). The research has seen the participation of professors and students from the universities concerned, as well as a number of bodies owning "historical" buildings in CA dating back to the early 20th century, including the Appulo-Lucan railways. In addition to being presented at numerous national and international conventions and conferences and published in the relevant proceedings, the results of the research have been collected in a number of national and international volumes and conferences (publications #86 [BC.01]; #89 [JP.03]; #107, 109, 110, 115, 116 [CP.14, 16, 17, 22, 23]; #132-139 [NBC.07-14]; #152 [E.02]; #184-187, 190-192 [NCP.30-33, 36-38]; #204 [IR.04]).

2003-2007

Participation in the Research Group characterized by collaboration at national level on the theme: "Structural safety of traditional masonry construction and intervention strategies. a case study in Calabria: information system for the recovery of the historic village of Laino Castello". Politecnico di Bari, Politecnico di Milano, Università degli Studi della Calabria. The research was developed as part of a PRIN 2003 Project coordinated by Prof. Mauro Mezzina (Bari Polytechnic). In addition to several publications in National and International

Conference Proceedings, the research results have been collected in a Volume (publications #111 [CP.18]; #153 [E.03]; #174, 176 [NCP.20, 22], #206 [IR.06]).

2004-2005

Participation in the Research Group characterized by collaboration at national level on the theme: "Methodologies of analysis and recovery of urban fabrics and building types in the intercultural contexts of the Ottoman Mediterranean: Libya and the Holy Land". Polytechnic University of Bari, University "G. d'Annunzio" CHIETI-PESCARA, University of Calabria. The research was developed in the framework of a PRIN 2004 Project coordinated by Prof. Attilio Petruccioli. Part of the research results have been collected in a monograph (publication #125 [M.03]).

2006-2007

Participation in the Research Group characterized by collaboration at national level on the theme: "Strategies for the mitigation of structural vulnerability and seismic risk in the ancient centres of the Eastern Mediterranean. The case of Jerusalem and Tripoli: houses and specialized building". Polytechnic University of Bari, University of Genoa, University of Calabria. The research was developed within a PRIN 2008 Project coordinated by Prof. Attilio Petruccioli.

2007-2017

Participation and coordination (from 2015) in the Research Group characterized by collaboration at national level on the theme: "Territorial Analysis of Hazards and Urban and Structural Vulnerabilities-Project Antaeus". Politecnico di Bari, Politecnico di Milano, Basin Authority of the Apulia Region, Municipality of Foggia. The research has been developed in the framework of some Research Conventions between the Politecnico di Bari and the Apulia Region Basin Authority coordinated by Prof. Mauro Mezzina (Politecnico di Bari). Research activities and related funds, starting from 2015, are coordinated by the undersigned Giuseppina Uva. In addition to several publications in National and International Conference Proceedings, guidelines adopted in Puglia at regional and municipal level for the implementation of 2nd level vulnerability assessments on school buildings have been developed [http://www.urbanisticafoggia.org/index.php?option=com_docman&task=doc_download&gid=651&Itemid=229] (publications #23 [IJP.21], #104 [CP.11]; #124 [M.02]; #169-173, 175 [NCP.14-19, 21]).

2007-today

Co-direction of a research group characterised by collaboration at national level on the "Modelling in and out of plan of masonry structures, which has seen in particular applications to monuments and church facades. Responsible: Prof. Siro Casolo (Politecnico di Milano), Prof. Giuseppina Uva (Politecnico di Bari). The results of the research, which has taken as its starting point the previous studies of the two managers on the modelling and analysis of masonry structures, have been presented in several national and international conferences and published in international journals (publications #35, 45 [IJP.33, 43]; #49, 50 [IBC.02, 03]; #64, 65 [ICP.13, 14]; #105, 108 [CP.13, 15]; #125 [M.03]).

2010-today

Co-direction of a research group characterised by collaboration at national level on the theme of "Non-linear dynamic analysis of masonry towers and modelling of dynamic interaction between ground structures". Responsible: Prof. Siro Casolo (Politecnico di Milano), Prof. Giuseppina Uva (Politecnico di Bari). The research, currently underway, has seen, among other things, the development of a number of degree theses, and the results of the research, which has taken as its starting point the previous studies of the two managers on the modelling and analysis of masonry structures, have been presented at various national and international conferences and published in journals (publications #22, 36 [IJP.20, 34]; #80, 85 [ICP.28, 33], #103 [CP.10]).

2013-2017

Co-direction of a research group characterized by international collaboration on the theme "Seismic behaviour of mixed Masonry Reinforced Concrete Buildings". Responsible: Prof. Paulo B. Lourenco, (Universidad do Minho, Portugal), Prof. Giuseppina Uva (Politecnico di Bari, Italy). The collaboration, which started in 2013, saw, among other things, the development of a doctoral thesis on the subject, which was completed in 2015.

2014-2017

Co-direction of a research group characterized by international collaborations: "Innovative decision support system for the sustainable co-management of complex exhibition systems". The multidisciplinary research group includes different areas: process management, management of physical and building systems, mathematics, sensors, information technology. Contacts: Prof. Giuseppina Uva- Michele Dassisti-Francesco Iannone-Giuseppe Florio-Franco Maddalena-Michele Ruta-Alfredo Grieco-Ilaria Giannoccaro-Vito Albino (Politecnico di Bari, Italy); Prof. Mario Lezoche-Alexis Aubry (Université de Lorraine, France), Antonio Giovannini-Alessandro Buscicchio (INRESLAB S.c.a.r.l., BARI - Italy). The first results of the research were presented during the SBE2016 International Conference in Sydney, Australia (publication #75 [ICP.23]).

2014-2019

Co-direction of a research group characterized by international collaboration on "Simplified Procedures for the Assessment of Seismic Vulnerability and Reinforcement Strategies of Existing Concrete Buildings". Responsible: Prof. Stefano Pampanin (University of Canterbury, New Zealand), Prof. Giuseppina Uva (Politecnico di Bari, Italy). The collaboration, which started in 2015, saw, among other things, the development of a doctoral thesis in co-defence and the publication of the results in international journals (publications #1, 2 [IJD01,02]; #9, 10, 12 [IJP07, 08, 14]; #73 [ICP.21]; #6 [CP.02]).

2014-today

Co-direction of a research group characterized by international collaboration on the theme "Evaluation of the de". Responsible: Prof. Humberto Varum (University of Porto, Portugal), Prof. Giuseppina Uva (Politecnico di Bari, Italy). The collaboration, which started in 2015 and is currently underway, has seen, among other things, the development of a doctoral thesis completed in 2015 and the publication of the results in international journals. (Publication # 9 [IJP.11])

Further scientific collaborations have been initiated:

with Saad Dahlab University, Blida, Algeria, on the subject of seismic vulnerability analysis of historic buildings, with the activation of an international cooperation agreement for two PhD students, of which the undersigned is advisor for the Bari Polytechnic. In particular, a first work was presented at the 16th European Conference on Earthquake Engineering in 2018: "Vulnerability Analysis, Post-seismic And Structural Diagnosis and Retrofitting Solutions for Historical Masonry Structures: The Case of The Lighthouse "Bengut" of Dellys In Algeria" (publication #96 [CP.03]).

7. SCIENTIFIC PUBLICATIONS

She is the author of over 190 scientific publications in international and national journals, chapters of international and national books, proceedings of international and national conferences.

Synopsis of bibliometric and citational data (updated on 28 febbraio 2019) on Scopus/WOS

N. products: **93**

N. articles: **58**

N. citations: **1298**

H Index **20 (last 15 years)**

7.1. Articles in print (electronic print indexed on Scopus and/or WOS DB) [IJD] (3)

- [1] [IJD.01] Ruggieri, S., Tosto, C., Rosati, G., Uva, G., Ferro, G. A. (**2021-first online**) Seismic vulnerability analysis of masonry churches in Piemonte after 2003 Valle Scrivia Earthquake: post-event screening and situation 17 years later. *International Journal of Architectural Heritage*. <https://doi.org/10.1080/15583058.2020.1830452>
- [2] [IJD.02] Ruggieri, S., Fiore, A., & Uva, G. (**2021-first online**). A new approach to predict the fundamental period of vibration for newly-designed reinforced concrete buildings. *Journal of Earthquake Engineering*, doi:10.1080/13632469.2021.1961929
- [3] [IJD.03] Sangiorgio, V., Uva, G., & Adam, J. M. (**2020-first online**). Integrated seismic vulnerability assessment of historical masonry churches including architectural and artistic assets based on macro-element approach. *International Journal of Architectural Heritage*, doi:10.1080/15583058.2019.1709916

7.2. Articles on international journals indexed on Scopus and/or Web of Science [IJP] (55)

- [4] [IJP.01] Leggieri, V., Ruggieri, S., Zagari, G., Uva, G. (**2021**). Appraising seismic vulnerability of masonry aggregates through an automated mechanical-typological approach. *Automation in Construction*, 132 doi:10.1016/j.autcon.2021.103972
- [5] [IJP.02] Ruggieri, S., Porco, F., Uva, G., & Vamvatsikos, D. (**2021**). Two frugal options to assess class fragility and seismic safety for low-rise reinforced concrete school buildings in southern Italy. *Bulletin of Earthquake Engineering*, 19(3), 1415-1439. doi:10.1007/s10518-020-01033-5
- [6] [IJP.03] Ruggieri, S., Cardellicchio, A., Leggieri, V., & Uva, G. (**2021**). Machine-learning based vulnerability analysis of existing buildings. *Automation in Construction*, 132 doi:10.1016/j.autcon.2021.103936
- [7] [IJP.04] Nettis, A., Gentile, R., Raffaele, D., Uva, G., & Galasso, C. (**2021**). Cloud capacity spectrum method: Accounting for record-to-record variability in fragility analysis using nonlinear static procedures. *Soil Dynamics and Earthquake Engineering*, 150 doi:10.1016/j.soildyn.2021.106829
- [8] [IJP.05] Gentile, R., del Vecchio, C., Pampanin, S., Raffaele, D., & Uva, G. (**2021**). Refinement and validation of the simple lateral mechanism analysis (SLaMA) procedure for RC frames. *Journal of Earthquake Engineering*, doi:10.1080/13632469.2018.1560377
- [9] [IJP.06] Floris, I., Sangiorgio, V., Adam, J. M., Uva, G., Rapido, M., Calderón, P. A., & Madrigal, J. (**2021**). Effects of bonding on the performance of optical fiber strain sensors. *Structural Control and Health Monitoring*, doi:10.1002/stc.2782
- [10] [IJP.07] Leggieri, V., Di Lernia, A., Elia, G., Raffaele, D., & Uva, G. (**2021**). Vibrations induced by mechanical rock excavation on R.C. buildings in an urban area. *Buildings*, 11(1), 1-17. doi:10.3390/buildings11010015
- [11] [IJP.08] Ruggieri, S., Porco, F., & Uva, G. (**2020**). A practical approach for estimating the floor deformability in existing RC buildings: Evaluation of the effects in the structural response and seismic fragility. *Bulletin of Earthquake Engineering*, doi:10.1007/s10518-019-00774-2

- [12] [IJP.09] Uva, G., Tateo, V., & Casolo, S. (2020). Presentation and validation of a specific RBSM approach for the meso-scale modelling of in-plane masonry-infills in RC frames. *International Journal of Masonry Research and Innovation*, 5(3), 366-395. doi:10.1504/IJMRI.2020.107995
- [13] [IJP.10] Ruggieri, S., Perrone, D., Leone, M., Uva, G., & Aiello, M. A. (2020). A prioritization RVS methodology for the seismic risk assessment of RC school buildings. *International Journal of Disaster Risk Reduction*, 51 doi:10.1016/j.ijdrr.2020.101807
- [14] [IJP.11] Sangiorgio, V., Uva, G., Adam, J. M., & Scarcelli, L. (2020). Failure analysis of reinforced concrete elevated storage tanks. *Engineering Failure Analysis*, 115 doi:10.1016/j.engfailanal.2020.104637
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- [17] [IJP.14] Ruggieri, S., & Uva, G. (2020). Accounting for the spatial variability of seismic motion in the pushover analysis of regular and irregular rc buildings in the new italian building code. *Buildings*, 10(10), 1-22. doi:10.3390/buildings10100177
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- [19] [IJP.16] Gentile, R., Pampanin, S., Raffaele, D., & Uva, G. (2019). Non-linear analysis of RC masonry-infilled frames using the SLaMA method: Part 1—mechanical interpretation of the infill/frame interaction and formulation of the procedure. *Bulletin of Earthquake Engineering*, doi:10.1007/s10518-019-00580-w
- [20] [IJP.17] Gentile, R., Pampanin, S., Raffaele, D., & Uva, G. (2019). Non-linear analysis of RC masonry-infilled frames using the SLaMA method: Part 2—parametric analysis and validation of the procedure. *Bulletin of Earthquake Engineering*, doi:10.1007/s10518-019-00584-6
- [21] [IJP.18] Sangiorgio, V., Pantoja, J. C., Varum, H., Uva, G., & Fatiguso, F. (2019). Structural degradation assessment of RC buildings: Calibration and comparison of semeiotic-based methodology for decision support system. *Journal of Performance of Constructed Facilities*, 33(2) doi:10.1061/(ASCE)CF.1943-5509.0001249
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- [23] [IJP.20] Uva G., Sangiorgio V., Ruggieri S., Fatiguso, F. (2019). Structural vulnerability assessment of masonry churches supported by user-reported data and modern internet of things (IoT). *Measurement: Journal of the International Measurement Confederation*, 131, 183-192. doi:10.1016/j.measurement.2018.08.014
- [24] [IJP.21] Gentile, R., Pampanin, S., Raffaele, D., & Uva, G. (2019). Analytical seismic assessment of RC dual wall/frame systems using SLaMA: Proposal and validation. *Engineering Structures*, 188, 493-505. doi:10.1016/j.engstruct.2019.03.029
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- [28] [IJP.25] Sangiorgio V., Uva G., Fatiguso, F. (2018). User reporting-based semeiotic assessment of existing building stock at the regional scale. *Journal of Performance of Constructed Facilities*, 32(6) doi:10.1061/(ASCE)CF.1943-5509.0001227
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control node position. *Structures*, 13, 178-192. doi:10.1016/j.istruc.2017.12.006

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- [38] [IJP.35] Uva G., Porco F., Fiore F., Porco G. (2014). "Structural monitoring using fiber optic sensors of a pre-stressed concrete viaduct during construction phases". *Case Studies in Nondestructive Testing and Evaluation*, vol.2, pp.27-37. Doi:10.1016/j.csndt.2014.06.002; codice Scopus 2-s2.0-84925456142
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The undersigned Giuseppina Uva, according to D.P.R. n°445/2000, declares that all above reported information is true

Bari, December 07 2021

Prof. Giuseppina Uva