

PERSONAL DETAILS

Full Name: **Marco Corradi**

Home Address:

Work Address:

Telephone No:

EDUCATION AND QUALIFICATIONS

- Jan. 2016  
- to date Institution of Structural Engineers (IStructE), UK – Northern Counties  
Member of the committee.
- Jan. 2014 -  
Jan. 2018 Italian Ministry for University and Research, Rome, Italy  
Dr. Corradi was awarded in January 2014 a National Qualification of *Associate Professor* of Mechanics in Italy (code: ICAR08).  
Based on this, his name has been added to the national list of Associate Professors of Mechanics (ICAR08) of the Italian Ministry for University and Research (MIUR). According to law, Italian universities may offer a post of Associate Professor only to individuals listed. The list comprises 95 individuals and inclusion is based upon an examination by an international panel.
- Nov. 1998  
- Oct. 2001 University of Perugia, Italy  
Ph.D, by Thesis, "Reinforcement of historic masonry with advanced materials"
- Nov. 1990  
- June 1997 University of Perugia, Italy  
MSc Degree in Structural Civil Engineering, with a grade of 102/110.
- Jun. 1994  
- Sept. 1994 University of California, Davis, USA  
Engineering and Economics modules attended.
- Jun. 1990  
- Aug. 1990 Tufts University, Boston, USA  
Engineering modules attended.
- Sept. 1985  
- June 1990 Liceo Classico Gaius Cornelius Tacitus, Terni, Italy  
Grammar High School studies.

ACADEMIC AND PROFESSIONAL EXPERIENCE

Marc. 2017 - to date	<u>University of Perugia, Italy</u> Aggregate Professor of Mechanics
Oct. 2016 - Mar. 2017	<u>Northumbria University, Newcastle upon Tyne, UK</u> Director of International Recruitment & Development, Northumbria University
Sept. 2015 - Mar. 2017	<u>Northumbria University, Newcastle upon Tyne, UK</u> Reader/Associate Professor of Structural Mechanics
Sept. 2013 - August 2015	<u>Northumbria University, Newcastle upon Tyne, UK</u> Senior Lecturer of Mechanics
Jan. 2008 - June 2013	<u>University of Perugia, Italy</u> Aggregate Professor of Mechanics
Jan. 2005 - Dec. 2007	<u>University of Perugia, Italy</u> Lecturer of Mechanics
Mar. 2004 - Oct. 2012	<u>Italian Institution of Engineers (Ordine degli Ingegneri) – Province of Terni , Italy</u> Member of the committee
Nov. 1998 - June 2013	<u>Mechanical Testing Laboratory (LASTRU), University of Perugia, Italy</u> Lab Operations manager
Mar. 1999 - Oct. 1999	<u>ISIRIM (Advanced Institute of Research and Training on Materials and Environment), Terni, Italy</u> Graduate Technician in the mechanics laboratory of this high research institute

INVITED LECTURES

<i>The Institution of Structural Engineers, Newcastle Upon Tyne, UK</i>	<i>Feb., 2017</i>
<i>Faculty of Engineering, University of Rome 3, Rome</i>	<i>Apr., 2015</i>
<i>The Concrete Society Northern Region, Newcastle Upon Tyne</i>	<i>Nov., 2014</i>
<i>Sangemini Preservation Studies, Sangemini</i>	<i>June, 2011</i>
<i>Valdosta State University, USA</i>	<i>May, 2010</i>
<i>Institution of Civil Engineers, Terni</i>	<i>Mar., 2010</i>
<i>Institution of Civil Engineers, Terni</i>	<i>Jan., 2008</i>
<i>University of Wisconsin-Milwaukee, U.S.A.</i>	<i>May, 2004</i>
<i>Institution of Civil Engineers, Lanciano</i>	<i>Nov., 2003</i>
<i>Institution of Civil Engineers, Chieti</i>	<i>Nov., 2003</i>
<i>Institution of Civil Engineers, Florence</i>	<i>Apr., 2003</i>
<i>Institution of Civil Engineers, Cremona</i>	<i>Jan., 2003</i>
<i>Institution of Civil Engineers, Terni</i>	<i>Nov., 2002</i>
<i>AICO, Italian Society for Composites in Civil Eng.</i>	<i>May, 2002</i>
<i>University of Wisconsin-Milwaukee, U.S.A.</i>	<i>May, 2002</i>
<i>Centro Studi Sisto Mastrodicasa, Perugia, Italy</i>	<i>Apr., 2001</i>
<i>Edilcalce, SpA, Foligno, Italy</i>	<i>Sept., 2001</i>
<i>University of Wisconsin-Milwaukee, U.S.A.</i>	<i>June, 2001</i>

MEMBERSHIP of PROFESSIONAL SOCIETIES

1. Fellow of the HEA - *Higher Education Academy*, UK
2. Chartered member of *Institution of Structural Engineers* (MIStructE) London, UK
3. Chartered Engineer of *Engineering Council* (CEng), London, UK
4. RILEM (*International Union of Laboratories and Experts in construction materials systems and structures*), Paris, France
5. Chartered member of *Italian Institution of Professional Engineers*, (Ordine degli Ingegneri della Provincia di Terni), Italy
6. *Italian Association of Forensic Engineering* (AIF), Naples, Italy
7. *Accademia Raffaello* (*appointed member*), Urbino, Italy
8. *Deputazione di Storia Patria per l'Umbria* (*appointed member*), Perugia, Italy
9. *International Masonry Society*, London, UK
10. *Italian Society for Earthquake Engineering* (Anidis), Rome, Italy
11. *Centro Studi Sisto Mastrodicasa*, Perugia, Italy
12. *Sangemini Preservation Studies*, Sangemini, Italy

MEMBERSHIP of INTERNATIONAL TECHNICAL COMMITTEES

1. Member of Technical Committee TC 250-CSM “Composites for sustainable strengthening of masonry” of RILEM (*International Union of Laboratories and Experts in construction materials systems and structures*), [2012-present]
2. Member of Technical Committee TC 223-MS “Masonry Strengthening with Composite materials” of RILEM (*International Union of Laboratories and Experts in construction materials systems and structures*), [2009-2013]
3. Member of the joint Technical Committee ACI [*American Concrete Institute*] – RILEM. ACI committee C005490L Liaison with RILEM TC 250 [*Thin Reinforced Cementitious Products and Ferrocement*], [2014-present]

MEMBERSHIP of SCIENTIFIC COMMITTEES

1. Member of International Scientific Committee of SHATIS 2015 (*International Conference on Structural Health Assessment of Timber Structures*), 9-11 September 2015, Wrocław, Poland.
2. Member of International Scientific Committee of MURICO 2017 (*Mechanics of Masonry Structures Strengthened With Composite Materials*), 28-30 June 2017, Bologna, Italy.

VISITING PROFESSOR / HONORARY STATUS

1. Honorary Partner at the *University of Aberdeen* from 2017 to 2022.

2017

EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

1. Member of Editorial Board of *ISRN Construction Engineering* ISSN: 2314-6370 [2009-2014]
2. Member of Editorial Board of *Ingenium* ISSN 1971-6648 [2007-present]
3. Member of Editorial Board of *Challenge Journal of Structural Mechanics* ISSN 2149-8024 [2015-present]
4. Member of Editorial Board of *Int. J. of Masonry Research and Innovation* ISSN 2056-9467 [2016-present]
5. Member of Editorial Board of *The Open Materials Science Journal* ISSN 1874-088X [2017-present]
6. Member of Editorial Board of *American Journal of Construction and Building Materials* [2017-present]
7. Member of Editorial Board of *Recent Patents on Materials Science* ISSN 1874-4648 [2017-present]

EDITOR IN CHIEF

Editor in Chief of the Journal *Ingenium* ISSN 1971-6648 [2017-present]  
edited by the *Umbrian Institution of Engineers*, Terni, Italy

APPOINTMENT AS AWARDS JUDGE

November 2016, Newcastle Upon Tyne, UK  
Awards judge of the *Institution of Structural Engineers*, Northern Counties Structural Awards

PATENTS AND PATENT APPLICATIONS

Ruzzittu, U., Corradi, M., & Polchicchia, D. (2008). "Dispositivo lineare per la misurazione dello spostamento tra due elementi", registered at the *Italian Ministry of Economic Development and Ufficio Italiano Brevetti e Marchi (UIBM)* April 24th, 2008, Italian Patent n. MI2008-A000750.

DIRECTION OF STRUCTURES LABORATORIES

Chief Operations Manager of the *Structures Laboratory, Perugia University, Faculty of Engineering*, Loc. Pentima, Terni (Italy) 05100

[2005-to date]

Director of the *Structures Laboratory, Northumbria University, Faculty of Engineering and Environment*, Ellison Building, Newcastle Upon Tyne (UK) NE1 8ST

[2013-2017]

APPOINTMENT AS AN EXTERNAL PANEL MEMBER FOR ACADEMIC POSITIONS

For the position of *Senior Lecturer* (Ricercatore Tipo A)

1. *August 2016, Senior Lecturer of Mechanics, Faculty of Architecture, University of Florence, Italy*
2. *April 2015, Senior Lecturer of Mechanics, Faculty of Engineering, University of Perugia, Italy*

PEER REVIEWING

Peer reviewing for National Research Councils:

Czech Science Foundation (GAČR)	2013-present
Italian Ministry of Education and Research (MIUR)	2013-present
Hungarian Scientific Research Fund (OTKA)	2012-present
National Center of Science & Technology Evaluation of Kazakhstan	2017-present

Peer reviewing for Scientific Journals:

		<i>Number of reviews</i>	<i>Journal Classification (ISI)</i>
Applied Sciences (MDPI)	ISSN 2076-3417	1	Q2
BioResources (NC State University)	ISSN 1930-2126	2	Q2
Buildings (MDPI)	ISSN 2075-5309	1	-
Bulletin of Earthquake Engineering (Springer)	ISSN 1570-761X	3	Q1
Composites Science and Technology (Elsevier)	ISSN 0266-3538	1	Q1
Composites, part B (Elsevier)	ISSN 1359-8368	11	Q1
Construction and Building Materials (Elsevier)	ISSN 0950-0618	23	Q1
Earthquake Eng. and Struc. Dynamics (Wiley)	ISSN 1096-9845	1	Q1
Earthquake Eng. and Eng. Vibration (Springer)	ISSN 1671-3664	1	Q2
Engineering Structures (Elsevier)	ISSN 0141-0296	15	Q1
Fibers (MDPI)	ISSN 2079-6439	1	-
Indian J. of Eng. & Materials Sciences (Nisclair)	ISSN 0975-1017	2	-
Int. J. of Arch. Heritage (Taylor and Francis)	ISSN 1558-3058	6	Q4
Int. J. of Masonry Res. and Innovat. (Interscience)	ISSN 2056-9467	2	-
Int. J. of Structural Engineering (Interscience)	ISSN 1758-7336	1	-
J. of Architectural Engineering (ASCE)	ISSN 1076-0431	1	Q1
J. of Civil Engineering & Constr. Technology	ISSN 2141-2634	1	-

J. of Cleaner Production ( <i>Elsevier</i> )	ISSN 0959-6526	1	Q1
J. of Composites for Construction ( <i>ASCE</i> )	ISSN 1090-0268	10	Q1
J. of Construction in Developing Countries	ISSN 1823-6499	1	-
J. of Cultural Heritage ( <i>Elsevier</i> )	ISSN 1296-2074	1	Q1
J. of Materials in Civil Engineering ( <i>ASCE</i> )	ISSN 0899-1561	9	Q2
J. of Structural Engineering ( <i>ASCE</i> )	ISSN 0733-9445	2	Q1
Materials ( <i>MDPI</i> )	ISSN 1996-1944	2	Q2
Materials and Design ( <i>Elsevier</i> )	ISSN 0264-1275	1	Q1
Materials and Structures ( <i>Springer</i> )	ISSN 1359-5997	6	Q2
PloS one	ISSN 1932-6203	2	Q1
Structures ( <i>Elsevier</i> )	ISSN 2352-0124	1	-
The Journal of Engineering ( <i>IET</i> )	ISSN 2051-3305	1	-
Wood Mat. Science and Eng. ( <i>Taylor &amp; Francis</i> )	ISSN 1748-0272	1	Q2

## CITATIONS INDICES

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Google Scholar, Accessed on 21 September 2017

	<i>All</i>	<i>Since 2012</i>
Citations	<b>1693</b>	<b>1289</b>
h-index*	21	20
i10-index**	33	29

\* *h-index is the largest number h such that h publications have at least h citations. The second column has the "recent" version of this metric which is the largest number h such that h publications have at least h new citations in the last 5 years.*

\*\* *i10-index is the number of publications with at least 10 citations. The second column has the "recent" version of this metric which is the number of publications that have received at least 10 new citations in the last 5 years.*

## HONORS AND AWARDS

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Outstanding Reviewer, 2014, Journal of Materials in Civil Engineering, ASCE  
(*American Society of Civil Engineers*)

Outstanding Reviewer, 2016, Structures,  
(*Elsevier*)

Student Led Teaching Awards 2015, nomination for Best Lecturer, Northumbria University

*To nominate him not only because of the dramatic change seen in him, but also and more importantly for his enthusiasm, clear ability to convey his passion and interest in the subject and lastly for his talent to convey somewhat complex concepts, into simple ones.*

Student Led Teaching Awards 2016, nomination for Best Lecturer, Northumbria University

*Captivates the audience with his demonstrations which includes amazing props such as elastic bands, rubbers and pencils. (How he does it I do not know). Humour, he makes the theatre burst into hysterics on the odd occasion when its acceptable. Enthusiasm, he always shows his love for the subject which he*

*infects me with. I could go on but I have to get back to studying. Long story short has excellent at delivering the lecture.*

Student Led Teaching Awards 2017, 3 nominations for Best Lecturer, Northumbria University

*He made the lecture interesting and explained everything very well.*

*Great lecturer.*

*Good teacher, enjoyed mechanics.*

*The Institution of Mechanical Engineers (IMEchE), London, UK, The Institution Project Award 2016: Flexural Strengthening of Timber Beams by Fibre Reinforced Polymer (FRP) plates using mechanical joints (Student name: Andreas Kyprianou, Supervisor: Marco Corradi).*

*Ordine degli Ingegneri della Provincia di Perugia (Italian Institution of Engineers), Italy, The Institution Project Award 2016: Rinforzo di elementi lignei inflessi mediante profili pultrusi in GFRP non incollati, € 1,000 (Student name: Maria Silvia Bernardi, Supervisor: Marco Corradi).*

## GRANTS

2017	Valutazione della possibilità di utilizzo di materiali metallici innovativi per applicazioni antisismiche, automobilistiche ed energetiche [ <i>Analysis of new metallic materials for applications in earthquake, automotive and energy systems engineering</i> ]. (Dr Corradi co- investigator)	€ 25,150	Foundation CARIT
2016	Sustainable applications of bioethanol and basalt fibres in terms of mechanical, emissive and acoustic performance, Ricerca di base, <i>Department of Engineering</i> (Dr Corradi co- investigator)	€ 15,000	University of Perugia, Italy
2015-2016	<i>Strengthening of timber beams/masonry assemblages using unglued Fibre Reinforced Polymers, QR Support Fund,</i> (Dr Corradi principal investigator)	£ 3,225	Northumbria University
2016-2019	<i>EPSRC grant Fully Recyclable natural fiber-reinforced thermoplastic composites for structural applications. Northumbria University (dr. Marco Corradi, principal investigator)</i> <u>[Rejected]</u>	£387,179	EPSRC
2016-2019	<i>Research and Innovation Actions HORIZON 2020; Promagna: Protection of Monuments against combined natural hazards [National Technical University of Athens, Imperial College London, University of Northumbria, University of Perugia, University of Zagreb, National Research Institute of Science and Technology for Environment and Agriculture (France), University of Patras, Polytechnic School of Torino, Neapolis University Pafos (Cyprus), National Observatory Athens, Hellenic Ministry Culture, Agiltech S.A., Nhazca Srl, G.T.S., Development Agency Dunea, Alterra]</i> <u>[Rejected]</u> (Dr Corradi principal investigator for Northumbria University)	€ 282,820 <sup>1</sup>	European Commission

<sup>1</sup> Value of the grant only for Northumbria University. Total value € 5,756,000

2014-2015	<i>Mechanical behavior of Brick Masonry Structures under extreme loading</i> , QR Support Fund, (Dr Corradi principal investigator)	£ 6,500	Northumbria University
2013-2014	<i>Structural behavior and classification of historic masonry typologies of North-East England</i> QR Support Fund (Dr Corradi principal investigator)	£ 8,500	Northumbria University
2010-2015	<i>RELUIS II area 1 line 1 task 1 edifici in muratura e centri storici</i> [Masonry buildings and historic centres] (Dr Corradi co- investigator)	€ 68,850	Italian Ministry for Research
2010-2015	<i>RELUIS II area 2 line 2 task 5 Contenuti museali e aree architettoniche</i> [Contents of museums and historic areas] (Dr Corradi co- investigator)	€ 25,500	Italian Ministry for Research
2013-2014	<i>Soiluppo dell'uso di rinforzi in titanio accoppiati a malte idrauliche, materiali lapidei e ceramici</i> [Bond behavior of titanium reinforcements with hydraulic mortars and clay materias] funded by the Umbrian Innovation Pole for Special Materials and Micro- and Nanotechnologies (PUMAS) (Dr Corradi principal investigator)	€ 5,000	Region of Umbria, Italy
2006-2009	<i>RELUIS I Linea 8: Materiali innovativi per la riduzione della vulnerabilità nelle strutture esistenti.</i> [Innovative materials for the mitigation of seismic risk of existing masonry structures]. (Dr Corradi co-investigator)	€ 30,000	Italian Ministry for Research
2006-2009	<i>RELUIS I Linea 1: Valutazione e riduzione della vulnerabilità di edifici in muratura</i> [Analysis and mitigation of seismic vulnerability of existing masonry structures]. (Dr Corradi co-investigator)	€ 120,000	Italian Ministry for Research

## INDUSTRY COLLABORATIONS

From 2005 to 2013, and again from 2017, Dr Corradi was the operations manager of LASTRU lab (Materials and Structures Laboratory) of the University of Perugia, located in Terni, Italy. On his start in that position in 2005 Dr Corradi developed a network industrial collaborators/consultancy/research with more than 200 SME and multinational large companies [such as Wienerberger AG ([www.wienerberger.com](http://www.wienerberger.com)), F.B.M. SpA ([www.fbm.it](http://www.fbm.it)), Fibre Net srl ([www.fibrenet.it](http://www.fibrenet.it))]. During this period Dr Corradi secured a total of € 1.213.732,08 (VAT incl.) through have supervised analyses, in-site tests for industries and firms for the following annual revenues:

2017	€ 58,957.48 + VAT	2009	€ 41,291.30 + VAT
2013	€ 85,957.48 + VAT	2008	€ 129,672.72 + VAT
2012	€ 153,338.32 + VAT	2007	€ 96,428.17 + VAT
2011	€ 168,114.69 + VAT	2006	€ 105,266.87 + VAT
2010	€ 134,811.40 + VAT	2005	€ 96,562.46 + VAT



SUPERVISION OF RESEARCH STUDENTS

- Undergraduate Students: Active supervision and assessment of engineering student projects (period from 1998 to 2013) (Perugia University, Engineering School, University of Florence, College of Engineering).
- Graduate Students: Active thesis supervision and assessment of more than 35 graduate students (period from 1998 to 2013) from: University of Perugia, Engineering College, Wroclaw University (Poland).

PhD SUPERVISION

- Student name: *Luca Righetti*, 2014-2018, Nonlinear static and dynamic analyses of St. Nicolas Cathedral, Newcastle, *Principal Supervisor*, **Northumbria University**, UK (in progress)
- Student name: *Hoang X. Nguyen*, 2014-2017, Behaviours of nano/micro functionally graded structures, *Second Supervisor*, **Northumbria University**, UK (in progress)
- Student name: *Romina Sisti*, 2013-2016, Shear reinforcement of historic wall panels with a composite-reinforced inorganic matrix, *Second Supervisor*, **University of Perugia**, Italy (completed)
- Student name: *Giulio Castori*, 2003-2006, *Strengthening of masonry elements with innovative composite laminates*, *Second supervisor*, **University of Perugia**, Italy (completed)

MEMBERSHIP of DOCTORAL COLLEGE COMMITTEES

- Membership of the International Doctoral College Committee “Energia e Sviluppo Sostenibile” [*Energy and Sustainable Development*] 31<sup>st</sup> cycle, for 8 students, at the University of Perugia, Italy accredited with the Italian Ministry of Research [MIUR], 2015-2018
- Membership of the International Doctoral College Committee “Energia e Sviluppo Sostenibile” [*Energy and Sustainable Development*] 32<sup>nd</sup> cycle, for 13 students, at the University of Perugia, Italy accredited with the Italian Ministry of Research [MIUR], 2016-2019
- Membership of the International Doctoral College Committee “Energia e Sviluppo Sostenibile” [*Energy and Sustainable Development*] 33<sup>rd</sup> cycle, for 11 students, at the University of Perugia, Italy accredited with the Italian Ministry of Research [MIUR], 2017-2020

PhD EXTERNAL EXAMINER

Student name:

*Elena Perria*, 2013-2016, **University of Florence**, Italy and **Braunschweig University**, Germany: *characterization of halved undersquinted scarf joint and stop-splayed undersquinted and tabled scarf joint*.

*Carla Vinci*, 2012-2015, **University of Palermo**, Italy: *Structural behavior of historic timber connections*.

*Enrico Genova*, 2012-2015, **University of Palermo**, Italy: *Energy analysis of historic buildings*.

Liucija Berezanskyte, 2012-2015, **University of Palermo**, Italy: *Analysis of Lithuanian churches between 18<sup>th</sup> and 19<sup>th</sup> century.*

Saman Babaeidarabad, 2011-2014, **University of Miami**, USA: *Masonry walls strengthened with fabric-reinforced cementitious matrix composite subjected to in-plane and out-of-plane load*

Daniela Sinicropi, 2011-2014, **Braunschweig University**, Germany and **University of Florence**, Italy: *FRCM Durability: Experimentation and Numerical Analysis.*

Marco Morini, 2012-2015, **University of Palermo**, Italy: *Architecture and Photovoltaics: strategies, technologies and novel components.*

### CONTRIBUTION TO CODES/STANDARDS/GUIDELINES

Contribution for the compilation of the a new Italian seismic code (*Norme tecniche per le costruzioni* - D.M. 14 January 2008 and instruction code 2 February 2009, n. 617 *Istruzioni per l'applicazione delle «Nuove norme tecniche per le costruzioni» di cui al decreto ministeriale 14 gennaio 2008 (GU n. 47 del 26-2-2009 - Suppl. Ordinario n.27)*) on section 8 (Structural behavior of historic masonry) with regard to Tabs. C8A.2.1 and 2.

Contribution for the compilation of CNR-DT 201/2005 *Guidelines for the Design and Construction of Externally Bonded FRP Systems for Strengthening Existing Structures - Timber structures*, edited by the Italian National Research Council (CNR).

Contribution for the compilation of TC 223-MSR Report *Masonry strengthening with composite materials*, edited by the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM).

Contribution for the compilation of TC 250-CSM Report *Composites for sustainable strengthening of masonry*, edited by the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM).

### NATIONAL EVALUATION OF RESEARCH

Dr. Corradi contributed to VQR [Valutazione della Qualità della Ricerca / *Evaluation of Research Quality*] 2011-2014 (*Italy*) for Perugia University with 5 publications scoring 5.0/5.0 [5: Excellent, 4: Good, 2.5: Pass; 0: Fail].

Dr Corradi contributed to REF 2013 [*Research Excellence Framework*] (*United Kingdom*) for Northumbria University with 4 publications scoring 14.5/16.0 in the independent external assessment.

Dr. Corradi contributed to VQR [Valutazione della Qualità della Ricerca / *Evaluation of Research Quality*] 2004-2010 (*Italy*) for Perugia University with 3 publications scoring 5.8/6.0 [6: Excellent, 4.8: Good, 3.0: Pass; 0: Fail].

### CONFERENCE SESSION CHAIRS

Sessions were chaired at the following international conferences:

1. *Structural Faults + Repair 2012*, 13<sup>th</sup> Inter. Conf., Edinburgh, UK, 3-5 July 2012.
2. *Concrete, Materials and Conservation-2014*, Inter. Conf., Imperial College, London, UK, 8-10 July 2014.
3. *Structural Health Assessment of Timber Structures*, 3<sup>rd</sup> International Conference, Wroclaw, Poland, 9-11 September 2015.
4. Session Conservation of Historic Buildings – *IBMAC 16th International Brick and Block Masonry Conference*, Padua, Italy, 26-30 June 2016.
5. Session Arches & Vaults – *IBMAC 16th International Brick and Block Masonry Conference*, Padua, Italy, 26-30 June 2016.
6. *5<sup>th</sup> International Conference on Mechanics of Masonry Structures Strengthened with Composite Materials (MURICO5)*, Bologna, Italy, 27-30 June 2017.

## TEACHING ACTIVITY

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### Teaching activity at *Northumbria University*, Newcastle Upon Tyne, UK

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#### *Academic year 2016/2017*

(as Module Tutor):

⊗ Introduction to Mechanics and Structures (BEng Civil) KB4024

(as Module co-Tutor):

⊗ Engineering Systems (BEng Mech.) KB4000

#### *Academic year 2015/2016*

(as Module Tutor):

⊗ Introductory Mechanics (BEng Mech.) EN0100

⊗ Introductory Mechanics for Civil Engineers (BEng Civil) BE1379

⊗ Data Analysis (BEng Arch. Eng.) BE1186

(as Module co-Tutor):

⊗ Refurbishment & Maintenance of Buildings (BEng Manag. Eng.) BE1287

#### *Academic year 2014/2015*

(as Module Tutor):

⊗ Introductory Mechanics (BEng Mech.) EN0100

⊗ Introductory Mechanics for Civil Engineers (BEng Civil) BE1379

(as Module co-Tutor):

⊗ Advanced Mechanics (BEng Mech.) EN0300

⊗ Applied Mechanics (BEng Mech.) EN0200

#### *Academic year 2013/2014*

(as Module Tutor):

⊗ Introductory Mechanics (BEng Mech.) EN0100

⊗ Introductory Mechanics for Civil Engineers (BEng Civil) BE1379

Student feedback

(from Minutes of the Semester 1 Programme Committee Meeting held on 28 November 2013):

BE1379 - *Introductory Mechanics for Civil Engineers*

“Students felt this was a really good module and liked how it was taught”

Student module overall satisfaction: 4.53/5.0 (April 2014)

Teaching activity at the University of Perugia, Italy

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*Academic year 2017/2018*

(as Module Tutor):

- ⊗ Applied Mechanics (BEng Industrial-Level 5)
- ⊗ Advanced Mechanics (MEng Mechanical-Level 7)

*Academic year 2016/2017*

(as Module Tutor):

- ⊗ Applied Mechanics (BEng Industrial-Level 5)
- ⊗ Advanced Mechanics (BEng Industrial-Level 7)

*Academic year 2012/2013*

(as Module Tutor):

- ⊗ Material Science and Experimental Structural Analysis (MEng Industrial) (as Assistant Professor):
- ⊗ Introductory Mechanics (BEng Industrial)
- ⊗ Introductory Mechanics for Civil Engineers (BEng Civil)

*Academic year 2011/2012*

(as Module Tutor):

- ⊗ Material Science and Experimental Structural Analysis (MEng Industrial);
- ⊗ CAD (*Computer Aided Design*); (as Assistant Professor):
- ⊗ Introductory Mechanics (BEng Industrial)
- ⊗ Introductory Mechanics for Civil Engineers (BEng Civil)

*Academic year 2010/2011*

(as Module Tutor):

- ⊗ Introductory Mechanics II, (MEng Materials)
- ⊗ Material Science and Experimental Structural Analysis (MEng Materials); (as Assistant Professor):
- ⊗ Introductory Mechanics (BEng Industrial)
- ⊗ Introductory Mechanics for Civil Engineers (BEng Civil)

*Academic year 2009/2010*

(as Module Tutor):

- ⊗ Introductory Mechanics II, (MEng Materials)

- ⊗ Material Science and Experimental Structural Analysis (MEng Materials); (as Assistant Professor):
- ⊗ Introductory Mechanics (BEng Industrial)
- ⊗ Introductory Mechanics for Civil Engineers (BEng Civil)

*Academic year 2008/2009*

(as Module Tutor):

- ⊗ Introductory Mechanics II, (MEng Materials)
- ⊗ Material Science and Experimental Structural Analysis (MEng Materials); (as Assistant Professor):
- ⊗ Introductory Mechanics (Department of Industrial Engineering)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 2007/2008*

(as Module Tutor):

- ⊗ Introductory Mechanics II, (MEng Materials)
- ⊗ Material Science and Experimental Structural Analysis (MEng Materials); (as Assistant Professor):
- ⊗ Introductory Mechanics (Department of Industrial Engineering).

*Academic year 2006/2007*

(as Module Tutor):

- ⊗ Material Science and Experimental Structural Analysis (MEng Materials); (as Assistant Professor):
- ⊗ Introductory Mechanics (Department of Industrial Engineering).

*Academic year 2005/2006*

(as Module Tutor):

- ⊗ Material Science and Experimental Structural Analysis (MEng Materials); (as Assistant Professor):
- ⊗ Introductory Mechanics for Civil Engineers (Department of Industrial Engineering).

*Academic year 2004/2005*

2017

(as Module Tutor):

- ⊗ Material Science and Experimental Structural Analysis (MEng Materials);

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 2003/2004*

(as Module Tutor):

- ⊗ Material Science and Experimental Structural Analysis (MEng Materials);

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 2002/2003*

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 2001/2002*

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 2000/2001*

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 1999/2000*

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

*Academic year 1998/1999*

(as Assistant Professor):

- ⊗ Introductory Mechanics (MEng Materials)
- ⊗ Introductory Mechanics for Civil Engineers (MEng Civil)

### Internal activities at Northumbria University

⊗ First Year Tutor of Civil Engineering program. An intense activity, not only during induction week, with been done (Visits to Scotland Forth Bridge, to on-site building yards, participating to the most part of Open Days, taking students to Professional Bodies events outside working time).

⊗ EN0100: in September 2013 I started to deliver lectures on EN0100. I ensured that the course design, approval, review and delivery is undertaken effectively and with rigour, by involving both the staff who deliver programmes with me (laboratory tutor and assistants) and the colleagues who assure quality.

*Statistics: average mark increased 7% compared to 2012/2013, and 32.1% compared to 2011/2012.*

*Students with a mark bigger than 60/100 were 43% (compared to 33% and 11% in 2012/2013 and 2011/2012 respectively). Student failure's rate decreased from 28% (in 2011/2012) to 13% (in 2013/2014).*

⊗ EN0300 (Advanced Mechanics): in September 2014 I started to deliver lectures on EN0300 replacing the previous lecturer. Students heavily complained in the past about delivery and exams of this module. I had to rearrange completely way of delivery lectures, exam and seminars as well as some module contents. Class Notes have been re-done.

*Communications from Paul Dawson, Part-time students Rep: Thanks for yesterday's lecture, all of the part time students are very happy with the content and delivery from yourself. I Definitely see more than 100% improvement on year 1 and 2 lectures, but we will leave that in the past..... So far this year though, it has been really good and I have come away from every session with an appreciation and basic understanding of the areas we have covered (24 Oct. 2014). ....In particular, Reaz covering En0201, and Marco covering En0300 have been excellent. Their teaching styles and seminars are very clear and methodical, which certainly helps when studying two fairly difficult subjects. It is definitely worth keeping this set up for the future year 3 students....(4 Nov. 2014).*

- © EN0200 (Applied Mechanics): in Decembers 2014 I will start to deliver EN0200 lectures replacing again the previous lecturer. Students heavily complained in the past about delivery and exams of this module.
- © External speaking to Industry: in order to promote *Northumbria University Civil Engineering Program*, I gave my availability to deliver external presentations to local industry of my research activity. Next Seminar on 21<sup>st</sup> of October 2014 (at Concrete, Mortar, Screed and Cement Society- Sherburn Stone Co Ltd).

## PUBLICATIONS

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### Books / Sections of Books

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1. Corradi, M., Osofero, A.I, Borri, A., & Castori, G. (2015). Strengthening of historic masonry structures with composite materials, in Asteris, P. G., & Plevris, V. (2015). *Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures* (2 Volumes) (pp. 1-808). Hershey, PA: IGI Global. doi:10.4018/978-1-4666-8286-3.
2. Borzomati, P., Corradi, M. (2006) *La società Dante Alighieri a Terni, cento anni di storia*, Ed. Stella, p. 1-161.
3. Corradi, M. (2005) *Castrum Farnectae: le famiglie, la storia, le cronache di un castello umbro*, Del Gallo editore, p. 1-474.
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10. Leone, M., Aiello, M.A., Balsamo, A., Carozzi, F.G., Ceroni, F., Corradi, M., Gams, M., Garbin, E., Gattesco, N., Krajewski, P., Mazzotti, C., Oliveira, D., Papanicolaou, C., Ranocchiai, G., Roscini, F., & Saenger, D. (2017). Glass fabric reinforced cementitious matrix: Tensile properties and bond performance on masonry substrate. *Journal of Composites, part B*, Elsevier, ISSN 1359-8368, doi: 10.1016/j.compositesb.2017.06.028, 127(15): 196-214.
11. Calabrese, L., Micelli, F., Corradi, M., Aiello, M.A., & Borri, A. (2017). Ageing and fatigue combined effects on GFRP grids. *Key Engineering Materials*, ISSN: 1662-9809, doi:10.4028/www.scientific.net/KEM.747.525, 747:525-532.
12. Pupsys, T., Corradi, M., Borri, A., & Amess, L. (2107). Reversible tensile strengthening of full-scale timber beams with mechanically attached GFRP composite plates. *Key Engineering Materials*, ISSN: 1662-9809, doi:10.4028/www.scientific.net/KEM.747.212, 747: 212-219.
13. Corradi, M., Borri, A., Righetti, L. & Speranzini E. (2017). Uncertainty analysis of FRP reinforced timber beams. *Journal of Composites, part B*, Elsevier, ISSN 1359-8368, doi: 10.1016/j.compositesb.2017.01.030, 113: 174-84.

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15. Corradi, M., Borri, A., Poverello, E., & Castori, G. (2017). The use of transverse connectors as reinforcement of multi-leaf walls. *Materials and Structures*, Springer, ISSN: 1359-5997, doi: 10.1617/s11527-016-0977-3, 50(2): 1-14.
16. Corradi, M., Borri, A., Castori, G., & Sisti, R. (2016). The Reticulatus method for shear strengthening of fair-faced masonry, *Bulletin of Earthquake Engineering*, Springer, ISSN 1570-761X, doi 10.1007/s10518-016-0006-5: 1-25.
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37. Corradi, M., Borri, A., Castori, G., & Sisti, R. (2014). Shear strengthening of wall panels through jacketing with cement mortar reinforced by GFRP grids. *Journal of Composites, part B*, Elsevier, ISSN 1359-8368, doi: 10.1016/j.compositesb.2014.03.022, 64:33-42.
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### Articles (International Conferences)

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#### ATTENDANCE AT CONFERENCES

1. MURICO 2017 (*Mechanics of Masonry Structures Strengthened With Composite Materials*), 28-30 June 2017, Bologna, Italy.
2. 16<sup>th</sup> IBMAC *International Brick and Block Masonry Conference*, Padua, Italy, 26-30 June 2016.
3. ECCOMAS Congress *European Congress on Computational Methods in Applied Sciences and Engineering* 2016, Crete Island, Greece, 5-10 June 2016.
4. 3<sup>rd</sup> SHATIS *International Conference Structural Health Assessment of Timber Structures*, Wroclaw, Poland, 9-11 September 2015.
5. 12<sup>th</sup> NAMC 2015 -*North American Masonry Conference*, Denver, Colorado, USA, 17-20 May 2015.
6. 4<sup>th</sup> MURICO *Mechanics of masonry structures strengthened with composite materials modelling, testing, design, control*, Ravenna, Italy, 9-11 September 2014.
7. 12<sup>th</sup> CST *Computational Structures Technology*, Naples, Italy, 2-4 September 2014.
8. 10<sup>th</sup> ETC *Engineering Computational Technology*, Naples, Italy, 3-5 September 2014.
9. 14<sup>th</sup> *Structural Faults + Repair 2014*, [Concrete, Materials and Conservation-2014], Imperial College, London, UK, 8-10 July 2014.
10. 15<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Padua, Italy, 30 June-4 July 2013.
11. 5<sup>th</sup> IF CRASC 2012, *Collapses, Reliability and Retrofit of Structures*, Pisa, Italy, 15-17 November 2012.
12. 8<sup>th</sup> *Structural Analysis of Historic Constructions*, Wroclaw, Poland, 15-17 October 2012.
13. 13<sup>th</sup> *Structural Faults + Repair 2012*, Edinburgh, UK, 3-5 July 2012.
14. 14<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Bari, Italy, 18-22 September 2011.
15. 7<sup>th</sup> *Engineering Computational Technology*, Valencia, Spain, 14-17 September 2010.
16. 10<sup>th</sup> *Computational Structures Technology*, Valencia, Spain, 14-17 September 2010.
17. 8<sup>th</sup> *Masonry Conference*, International Masonry Society, Dresden, Germany, 4-7 July 2010.
18. 4<sup>th</sup> IF CRASC 2009, *Collapses, Reliability and Retrofit of Structures*, Naples, Italy, 2-4 December 2009.
19. 13<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Bologna, Italy, 28 June-2 July 2009.
20. 3<sup>rd</sup> MURICO *Mechanics of Masonry Structures strengthened with FRP Materials: Modeling, Testing, Design, Control*, Venice, 22-24 April 2009.
21. 11<sup>th</sup> SAHC *Structural Analysis of Historic Constructions*, Bath, UK, 2-4 July 2008.
22. *La tecnologia di avanguardia nel naviglio da diporto*, Fiesse d'Artico, Italy, ATENA (Italian Association of Marine Engineering), 15 September 2007.
23. 12<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Pisa, Italy, 10-14 June 2007.
24. 2<sup>nd</sup> MURICO *Mechanics of Masonry Structures strengthened with FRP Materials: Modeling, Testing, Design, Control*, Venice, Italy, 6-8 December 2004.



25. 11<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Genoa, 25-29 January 2004.
26. CCC 2003 *Composites in Constructions*, Rende, Italy, 16-19 September 2003.
27. 17<sup>th</sup> AIDAA, *Italian National Association for Aerospace Engineering*, Rome, 15-19 September 2003.
28. 10<sup>th</sup> *Structural Faults + Repair 2003*, London, UK, 1-3 July 2003.
29. LIGNEA 2002, Perugia, Italy, 7-14 December 2002.
30. 6<sup>th</sup> *Masonry Conference*, British Masonry Society, London, UK, 1-3 November 2002.
31. 10<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Potenza, 9-13 September 2001.
32. 1<sup>st</sup> MURICO *Mechanics of Masonry Structures strengthened with FRP Materials: Modeling, Testing, Design, Control*, Venice, Italy, 7-8 December 2000.
33. 5<sup>th</sup> AIMAT 2000 (*Italian Association for Materials Engineering*), Spoleto, Italy, 17-21 July 2000.
34. 9<sup>th</sup> ANIDIS *Italian National Conference for Earthquake Engineering*, Turin, 20-23 September 1999.
35. *Seismic Performance of Built Heritage in small Historic Centres*, Assisi, Italy, 22-24 April 1999.

#### IMPACT FACTORS of PUBLICATION JOURNALS

Impact factors of Journals where Author publications appeared:

<i>Applied Sciences (MDPI)</i>	Impact Factor 2016 <b>1.68</b> /5-year <b>1.91</b>
<i>Construction and Building Materials (Elsevier)</i>	Impact Factor 2013 <b>2.29</b> /5-year <b>2.82</b>
<i>Composites, part B (Elsevier)</i>	Impact Factor 2013 <b>2.14</b> /5-year <b>2.65</b>
<i>Composites Science and Technology (Elsevier)</i>	Impact Factor 2013 <b>3.33</b> /5-year <b>4.14</b>
<i>Composite Structures (Elsevier)</i>	Impact Factor 2013 <b>3.29</b> /5-year <b>2.82</b>
<i>International Journal Architectural Heritage (Taylor&amp;Francis)</i>	Impact Factor 2013 <b>0.37</b> /5-year <b>0.58</b>
<i>Journal of Materials in Civil Engineering (ASCE)</i>	Impact Factor 2013 <b>0.96</b> /5-year <b>1.21</b>
<i>Materials and Structures (Springer)</i>	Impact Factor 2013 <b>1.18</b> /5-year <b>1.65</b>
<i>Materials (MDPI)</i>	Impact Factor 2016 <b>2.65</b> /5-year <b>3.24</b>
<i>Bulletin of Earthquake Engineering (Springer)</i>	Impact Factor 2013 <b>1.56</b> /5-year <b>1.69</b>