

CURRICULUM VITAE

RICARDO NUNO CARVALHO MONTEIRO

MAY 2023

1. PERSONAL INFORMATION

NAME: Ricardo Nuno Carvalho Monteiro
BIRTHDATE: February 10, 1982
NACIONALITY: Portuguese
PLACE OF BIRTH: Porto, Portugal
E-MAIL: ricardo.monteiro@iusspavia.it

2. EDUCATION

2011	European Ph.D. in Civil Engineering, University of Porto, Portugal (1-year placement at ROSE School, Pavia, Italy)
Thesis Title:	<i>Probabilistic Seismic Assessment of Bridges</i>
Advisors:	Prof. Raimundo Delgado (University of Porto) Prof. Anibal Costa (University of Aveiro)
2005	Civil Engineering Degree (Structural Engineering Curriculum), University of Porto, Portugal
Final Grade	17 out of 20 (ranked 1 st)

3. CURRENT AND PAST APPOINTMENTS

November 2019 – Present	Associate Professor, University School for Advanced Studies IUSS Pavia, Italy
December 2011 – October 2019	Assistant Professor, University School for Advanced Studies IUSS Pavia, Italy
August 2011 – Present	Affiliated Researcher, European Centre for Training and Research in Earthquake Engineering, Pavia, Italy
August 2011 – Present	Affiliated Researcher, Institute of R&D in Structures and Construction, Faculty of Engineering, University of Porto, Portugal
October 2010 – November 2011	Researcher, University of Pavia, Structural Mechanics Department

4. RESEARCH ACTIVITIES

Supervision/Co-Supervision of PhD and MSc Theses

2013 – Present	Supervision/Co-supervision of 12 PhD Theses: <ol style="list-style-type: none">1. Zelaschi, C. (2017) PhD in Earthquake Engineering and Engineering Seismology (ROSE), <i>Seismic assessment of spatially-distributed RC bridge portfolios</i>2. Jiang, Y. (2018) PhD in Earthquake Engineering and Engineering Seismology (ROSE), <i>Seismic assessment of composite frames with concrete-filled steel tube columns</i>3. Vecere A. (2019) PhD in Risk and Emergency Management (REM), <i>Near Real-time Flood Loss Estimation as a Basis for Risk Financing Mechanisms</i>4. Perdomo C. (2020) PhD in Earthquake Engineering and Engineering Seismology (ROSE), <i>Direct Economic Loss Assessment of Multi-Span Continuous RC Bridges under Seismic Hazard</i>
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5. Silva A. (2020) PhD in Earthquake Engineering and Engineering Seismology (ROSE), *Implications of earthquake-induced loss control in seismic design provisions*
6. Torres J. (2020) PhD in Risk and Emergency Management (REM) *Crossing borders: A comparative assessment of community resilience to natural hazards in Arica, Chile and Tacna, Peru*
7. Rodriguez C. (2020) PhD in Risk and Emergency Management (REM) *A framework to assess disaster resilience based on the sustainable development goals*
8. Abarca, A. (2022), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Seismic assessment of RC bridge infrastructure*
9. Shahnazaryan, D. (2022), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Integrated Performance-Based Seismic Design: Traversing Affordances for Practical Implementation*
10. Mucedero, G. (2023, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Large scale seismic risk assessment of existing masonry-infilled RC buildings in Italy*
11. Ozsarac, V. (2023, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Contributions to direct and indirect loss estimation of RC bridge portfolios*
12. Couto, R. (2026, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Integrated seismic and energy performance of residential buildings*

Supervision or co-supervision of 44 Master Theses:

1. Arnesano, A. (2021) MSc in Civil Engineering (University of Pavia), *Impact of masonry infills on the seismic performance in reinforced concrete structures*
2. Vergaro, M. (2021) MSc in Civil Engineering (University of Salento), *Seismic vulnerability and seismic risk classification of an existing school building: influence of masonry infills*
3. Damiani, F. (2020) MSc in Civil Engineering for Mitigation of Risk from Natural Hazards (ROSE), *Seismic design and loss assessment of base-isolated structures using a PBEE framework*
4. Garzia, G. (2020) MSc in Civil Engineering for Mitigation of Risk from Natural Hazards (ROSE), *Seismic Assessment and Global Retrofitting of Reinforced Concrete Buildings using a Displacement-Based Design Procedure*
5. Salvalalio, C. (2020) MSc in Civil Engineering for Mitigation of Risk from Natural Hazards (ROSE), *Seismic Assessment and Retrofitting of Existing RC Buildings*
6. Purushothama, C. (2019) MSc in Geomechanics, Civil Engineering and Risks (University of Grenoble Alpes, France), *Simplified Seismic Assessment of Infilled RC Frames*
7. Leone, J. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Evaluation of Risk Consistency of Force-Based and Displacement-Based Design Methods*
8. Mora, A. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Evaluation of Risk Consistency of Force-Based and Displacement-Based Design Methods for Reinforced Concrete Moment Frames*
9. Akan, O. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Establishing Displaced Shapes of Infilled RC Frames in Displacement-Based Design and Assessment*
10. Cripstyani, M. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Seismic Risk Assessment of Bridges in Indonesia*
11. Ahmed, S. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Large-Scale Seismic Risk Assessment and Definition of Retrofitting Strategies for RC Buildings*

12. Gonzalez, I. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Implications of seismic design provisions on accelerations sensitive non-structural components due to earthquake loading*
13. Alvarez, L. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Effect of material mechanical property variability on seismic performance of steel frames*
14. Shahnazaryan, D. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Comparison of earthquake-induced losses of reinforced concrete and steel frame buildings*
15. Rica, V. (2018) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Integrated Seismic Risk in Palestine*
16. Carofilis, W. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic Loss Assessment and Retrofitting Strategies of a RC School Building*
17. Bellotti, V. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic assessment of low-rise masonry buildings in Groningen's province (NL)*
18. Zampieri, S. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Human-Induced Seismicity in Groningen: Prioritization of risk assessments and Resilience-Based Design*
19. Bagavasingam, T. (2018) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Development of Fragility Curves for RC Buildings in Northern Algeria*
20. Mercurio, A. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Floor Response Spectrum for Seismic Design: Intervention on a High-Rise Building in Milan*
21. Borozan J. (2017) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic assessment of RC buildings considering soil-structure interaction*
22. O'Hearne N. (2017) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic numerical assessment of historical buildings*
23. Musta P. (2017) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Simplified Numerical Models for Seismic Performance of CFSTs*
24. Gaviria A. (2016) MSc in Risk and Emergency Management (REM), *Database of standards, practices and procedures for disaster risk reduction*
25. Sarchi, L. (2016) MSc in Risk and Emergency Management (REM), *Numerical modeling of non-engineered structures*
26. Perdomo C. (2016) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Use of Generalized Force Vectors for multi-mode pushover analysis of bridges*
27. Kalemi, B. (2016) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Seismic Performance of RC Filled Steel Columns*
28. Mystiliadi, A. (2016) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Steel fibres reinforced concrete in static and dynamic conditions*
29. Qu, L. (2015) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Seismic performance of RC structures with mixed steel-FRP rebars*
30. Vecere, A. (2015) MSc in Risk and Emergency Management (REM), *Post Disaster Needs Assessment – Shelter structures*
31. Ejiofor, M. (2015) MSc in Risk and Emergency Management (REM), *Flood Risk Model for Nigeria*
32. Civiletti, G. (2015) MSc in Risk and Emergency Management (REM), *Improved models for increased seismic risk awareness*
33. Jiang, Y. (2014) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Sustainable High-Performance Concrete-Steel Tubular Columns for Seismic Areas*

34. Ahmed, K. (2014) MSc in Risk and Emergency Management (REM), *Seismic Risk Assessment in Pakistan*
35. Ghazaryan, A. (2014) MSc in Risk and Emergency Management (REM), *Disaster risk financing and insurance strategy*
36. Keramat, S. (2014) MSc in Risk and Emergency Management (REM), *Reducing Disaster Risk through Promotion of Rights and Good Governance*
37. Zhang, X. (2013) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Different Approaches to Derive Analytical Fragility Functions of Bridges*
38. Zelaschi, C. (2013) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Systemic characterization of RC bridges for seismic loss assessment*
39. Sriwastava, A. (2013) MSc in Risk and Emergency Management (REM), *Development of a methodology to distribute existing rainfall amounts on terrain and simulation of rainfall induced flooding*
40. Sepitci, B. (2013) MSc in Risk and Emergency Management (REM), *The Relationship between Global Climate Change and Rainfall Induced Natural Hazards*
41. Santos, R. (2013) MSc in Risk and Emergency Management (REM), *Assessing housing needs following the Canterbury Earthquakes: A critical review of predictive models and feasibility of their implementation in New Zealand*
42. González, R. (2013) MSc in Risk and Emergency Management (REM), *From hurricane hazard modelling to risk assessment; a comparative study*
43. Servi, Y. (2013) MSc in Risk and Emergency Management (REM), *Disaster Risk Management for the East Asia and Pacific Region*
44. Endire, Y. (2013) MSc in Risk and Emergency Management (REM), *Wildfire Risk Assessment in Benishangul Gumuz Regional State of Ethiopia*

2007 – 2009

Tutor of 3 Civil Engineering MSc theses at University of Porto, Portugal (Main Supervisor: Prof. Raimundo Delgado)

1. Carvalho, A. (2009) MSc in Civil Engineering, *Seismic Assessment of reinforced concrete bridges*
2. Sousa, L. (2008) MSc in Civil Engineering, *Seismic assessment of reinforced concrete hollow piers bridges*
3. Ribeiro, R (2008) MSc in Civil Engineering, *Pushover analysis of reinforced concrete bridges*

Coordination/Participation in National/International Training and Research Projects

March 2023 – Present

Coordinator

IUSS Pavia, Italy University of Porto, Portugal

SERENE - Optimal Seismic and Energy Retrofit of Buildings considering Economic and Environmental Impacts

Funded by: Portuguese National Foundation for Science and Technology

Budget: €249,717.47

March 2022 – September 2022

Research Unit Coordinator

IUSS Pavia, Italy

Design and Supervision of Reconstruction of Public Infrastructures in Cabo Delgado province, Mozambique

Funded by: World Bank

Budget: \$20,000.00

March 2022 – Present

Research Unit Coordinator

IUSS Pavia, Italy

FIRMITAS – Multi-hazard assessment, control and retroFIT of bridges for enhanced Robustness using sMart IndusTriAlized Solutions

Funded by: PRIN2020 - Italian Ministry of University and Research (MUR)

Budget: €154,203.00

January 2021 – Present	<p>Coordinator IUSS Pavia, Italy <i>Collaborative Doctoral Partnership – Doctoral Programme in Understanding and Managing Extremes</i> Funded by: European Union, Joint Research Centre (JRC) Budget: TBD</p>
July 2019	<p>Coordinator IUSS Pavia, Italy <i>Intensive course on “Risk Assessment and Emergency Management of Disasters due to Natural Hazards”</i> Funded by: Earthquake Disaster Policy Division, Ministry of the Interior and Safety, South Korea Budget: €19,000.00</p>
January 2019 – Present	<p>Research Unit Coordinator IUSS Pavia, Italy <i>ReLUIS - Network of Seismic Engineering University Laboratories</i> Work Package 5 – Assessment of integrated seismic retrofitting schemes Funded by: Italian Civil Protection Department Budget: €75,000.00</p>
August 2018 – Present (August 2021)	<p>WP Coordinator (PI: Dr. José Miguel Castro) IUSS Pavia, Italy and University of Porto, Portugal <i>MitRisk - Framework for seismic risk reduction resorting to cost-effective retrofitting solutions</i> Funded by: Portuguese National Foundation for Science and Technology Main Tasks: Cost-benefit analysis in seismic loss estimation Budget: €160,670.97</p>
January 2018 – December 2019	<p>Co-Principal Investigator (Co-PI: Prof. Michele Calvi) Eucentre Foundation, Italy <i>INFRA-NAT – Increased Resilience of Critical Infrastructure under Natural and Human-induced Hazards</i> Funded by: European Commission – DG-ECHO Budget: €762,839.05</p>
January 2018 – Present	<p>Task Coordinator (PI: Prof. Michele Calvi) IUSS Pavia, Italy <i>Dipartimenti di Eccellenza - Revision of Seismic Action and Design</i> Funded by: Italian Ministry of Education and Research (MIUR) Budget: €8,205,100.00</p>
January 2017 – June 2020	<p>WP Coordinator (Exposure Model) (PI: Dr. Mário Marques) IUSS Pavia, Italy and University of Porto, Portugal <i>SMARTER - Seismic Urban Risk Assessment in Iberia and Maghreb</i> Funded by: Portuguese National Foundation for Science and Technology Budget: €86,592.00</p>
January 2017 – December 2018	<p>Principal Investigator IUSS Pavia, Italy <i>ITERATE – Improved Tools for Disaster Risk Mitigation in Algeria</i> Funded by: European Commission – DG-ECHO Budget: €568,281.00</p>
January 2016 – December 2017	<p>Research Unit Coordinator (PI: Dr. Alessia Rodriguez y Baena) IUSS Pavia, Italy <i>Technical Cooperation Regional Project - Strengthening Capacity for Harmonized Risk Assessment of Nuclear Facilities and Natural Hazards</i> Funded by: UN International Agency for Atomic Energy (IAEA) Budget: €446,000.00</p>

January 2016 – December 2018	Co-Principal Investigator (Co-PI: Prof. Michele Calvi) IUSS Pavia, Italy <i>ReLUIS - Network of Seismic Engineering University Laboratories</i> Research Line 7 – Displacement-based seismic loss assessment Funded by: Italian Civil Protection Department Budget: €475,250.00
28 January 2015 – 25 July 2018	Deputy Coordinator (PI: Prof. Michele Calvi) IUSS Pavia, Italy <i>SYRIS-ERC – Systemic Risk Modelling and Governance</i> Funded by: Lombardy Region and Cariplo Foundation Budget: €166,842.00
January 2015 – December 2016	Research Unit Deputy Coordinator (PI: Dr. Barbara Borzi) IUSS Pavia, Italy <i>SASPARM2.0 - Support Action for Strengthening PAlestine capabilities for seismic Risk Mitigation</i> Funded by: European Commission – DG-ECHO Budget: €666,644.00
January 2015 – June 2016	Deputy Coordinator (PI: Prof. Michele Calvi) Eucentre Foundation, Italy <i>Progetto Scuole</i> Funded by: Centre of Integrated Geomorphology for the Mediterranean Area (CGIAM) and Italian Ministry of Education and Research (MIUR) Budget: €1,500,000.00
June 2014 – Present	Coordinator IUSS Pavia, Italy <i>Erasmus+ Mobility Programme</i> Funded by: European Commission Budget: €94,927.00
January 2014 – Present	Coordinator Eucentre Foundation, Pavia, Italy <i>Convenzione Attuativa Eucentre-DPC</i> Progetto 1 – Coordinamento e sviluppo di attività di formazione, anche a livello internazionale, con il coinvolgimento di altre università ed istituzioni Funded by: Italian Civil Protection Department Budget: €155,000.00
January 2014 – December 2015	Research Unit Coordinator IUSS Pavia, Italy <i>ReLUIS - Network of Seismic Engineering University Laboratories</i> Research Line 7 – Displacement-based loss assessment of existing buildings Funded by: Italian Civil Protection Department Budget: €73,760.97
September 2013 – February 2019	Deputy Coordinator (PI: Prof. Michele Calvi) IUSS Pavia, Italy <i>MEEES – Erasmus Mundus Master in Earthquake Engineering and Engineering Seismology</i> Funded by: European Commission Budget: €1,577,600.00
June 2013 – September 2015	Task Coordinator (PI: Dr. Mário Marques) Eucentre Foundation, Pavia, Italy and University of Porto, Portugal <i>PRISE - Earthquake Loss Assessment of the Portuguese Building Stock</i> Funded by: Portuguese National Foundation for Science and Technology Main Tasks: Seismic Risk Exposure Model for Portuguese Building Stock Budget: €193,080.00

November 2010 – October 2014	<p>Task Coordinator Eucentre Foundation, Pavia, Italy <i>NERA - Network of European Research Infrastructures for Earthquake Risk Assessment and Mitigation</i> Funded by: European Commission (FP7) Budget: €11,949,356.04</p>
October 2010 – November 2011	<p>Post-Doctoral Researcher University of Pavia, Italy <i>SYNER-G - Systemic Seismic Vulnerability and Risk Analysis for Buildings, Lifeline Networks and Infrastructures Safety Gain</i> Funded by: European Commission (FP7) Budget: €4,784,534.55</p>
January – September 2010	<p>Doctoral Researcher University of Porto, Portugal <i>Seismic Assessment and Retrofitting of Bridges</i> Funded by: Portuguese National Foundation for Science and Technology</p>
March 2005 – July 2007	<p>Doctoral Researcher University of Porto, Portugal <i>LESSLOSS - Risk Mitigation for Earthquakes and Landslides, Subproject 9, Probabilistic risk assessment: methods and applications</i> Funded by: European Commission (FP6) Budget: €11,800,000.00</p>

5. TEACHING ACTIVITIES

November 2021	<p>Invited Lecturer Stellenbosch University, South Africa – MEng/PhD in Civil Engineering, 1-week course “<i>Seismic Design of RC Buildings</i>”</p>
October 2019	<p>Invited Lecturer Stellenbosch University, South Africa – MEng/PhD in Civil Engineering, 1-week course “<i>Seismic Design of RC Buildings</i>” – 3-day session in Stellenbosch for practitioners on “<i>Seismic Design of RC Buildings</i>” – 3-day session in Johannesburg for practitioners on “<i>Seismic Design of RC Buildings</i>”</p>
June 2018 – today	<p>Lecturer University of Pavia and IUSS Pavia, Italy MSc in Civil Engineering for Risk Mitigation from Natural Hazards PhD in Earthquake Engineering and Engineering Seismology (ROSE) <i>Fundamentals of Seismic Design</i></p>
February 2018 – March 2018	<p>Teaching Assistant IUSS Pavia, Italy <i>Earthquake Engineering and Engineering Seismology</i> (Lecturer: Gian Michele Calvi)</p>
October 2017	<p>Invited Lecturer Stellenbosch University, South Africa – MEng/PhD in Civil Engineering, 1-week intensive course on “<i>Seismic Design of RC Buildings</i>” – 1-day session in Stellenbosch for practitioners on “<i>Seismic Design of RC Buildings</i>” – 1-day session in Johannesburg for practitioners on “<i>Seismic Design of RC Buildings</i>”</p>
November 2016	<p>Lecturer IUSS Pavia, Italy PhD in Understanding and Managing Extremes (ROSE curriculum) <i>Seismic Safety for Nuclear Installations: From Hazard Assessment to Structural Analysis</i></p>

November 2015	Invited Lecturer Stellenbosch University, South Africa 1-day session in Johannesburg for practitioners on “ <i>Seismic Design of RC Buildings</i> ”
October 2015	Invited Lecturer Stellenbosch University, South Africa MEng/PhD in Civil Engineering, 1-week intensive course on “ <i>Seismic Design of RC Buildings</i> ”
April 2013 – May 2014	Teaching Assistant IUSS Pavia, Italy <i>Myths and Fallacies in Structural Engineering</i> (Lecturer: Gian Michele Calvi)
November 2013	Invited Lecturer Eucentre Foundation, Pavia, Italy 2-day course for practitioners on “ <i>Displacement Based Seismic Design of RC Buildings</i> ”
November 2012	Invited Lecturer University of Porto, Faculty of Engineering, Portugal <i>Behaviour of Structures in Seismic Prone Regions</i> 2-week training module provided to a delegation of Turkish practitioners with a view to provide them with tools to carry out seismic assessment in specific Turkish regions.
May – June 2012	Teaching Assistant IUSS Pavia, (formerly) ROSE School MSc/PhD in Earthquake Engineering and Engineering Seismology (ROSE) <i>Displacement Based Seismic Design of Structures</i> (Lecturers: Nigel Priestley and Gian Michele Calvi)
November 2011	Teaching Assistant IUSS Pavia, Italy <i>Understanding Earthquake Engineering</i> (Lecturer: Gian Michele Calvi)
February – March 2011	Teaching Assistant IUSS Pavia, (formerly) ROSE School MSc/PhD in Earthquake Engineering and Engineering Seismology (ROSE) <i>Seismic Assessment and Retrofitting of Existing Structures</i> (Lecturer: Rui Pinho)
September 2007 – February 2008	Teaching Assistant Faculty of Engineering, University of Porto, Portugal MSc in Civil Engineering <i>Structural Analysis</i>

6. ACADEMIC COORDINATION

October 2020 – Present	Coordinator PhD in Understanding and Managing Extremes (UME)
October 2016 – Present	Coordinator MSc in Earthquake Engineering and Engineering Seismology (ROSE)
September 2013 – Present	Deputy Coordinator Erasmus Mundus MSc in Earthquake Engineering and Engineering Seismology (MEEES)
September 2013 – September 2016	Deputy Coordinator MSc in Earthquake Engineering and Engineering Seismology (ROSE)

September 2012 –
August 2015

Deputy Coordinator
MSc in Risk and Emergency Management (REM)

7. ACADEMIC EVALUATION COMMITTEES

April 2013, July 2013,
October 2013, April
2014, July 2014, April
2016, April 2019

Member of the Undergraduate Courses Final Exam Committee
Department of Science, Technology and Society

December 2016,
May 2016

Member of the PhD Final Exam Committee
PhD in Understanding and Managing Extremes (UME)

a.y. 2017/2018 to
2019/2020

Member of the Admission Committee
MSc in Civil Engineering for Mitigation of Risk from Natural
Hazards

a.y. 2013/2014 to
2019/2020

Member of the Admission Committee
PhD in Understanding and Managing Extremes (UME)

a.y. 2014/2015 to
2018/2019

Member of the Application Evaluation Committee
Erasmus+ Student Mobility Programme

a.y. 2014/2015 to
2016/2017

Member of the Admission Committee
Erasmus Mundus MSc in Earthquake Engineering and Engineering
Seismology (MEEES)

a.y. 2014/2015 to
2016/2017

Member of the Admission Committee
MSc in Earthquake Engineering and Engineering Seismology
(ROSE)

a.y. 2012/2013 to
2015/2016

Member of the Admission Committee
MSc in Risk and Emergency Management (REM)

a.y. 2014/2015

Member of the Admission Committee
MSc in Environmental and Chemical Risk (ECR)

8. EDITORIAL ACTIVITIES

January 2021 -
present

Assistant Editor and Editorial Board Member
Journal of Earthquake Engineering – Taylor and Francis

December 2019 -
present

Associate Editor
Frontiers of Built Environment
(Earthquake Engineering)

January 2016 –
December 2020

Editorial Manager
Journal of Earthquake Engineering – Taylor and Francis

Guest Editor

Special Issue (Journal of Earthquake Engineering – Taylor and Francis) in
“Seismic assessment and conservation of historical monuments – Selected
papers of the 2nd AID Monuments Conference 2015”

Guest Editor

Special Issue (Journal of Earthquake Engineering – Taylor and Francis) in
“Displacement-based seismic loss assessment of existing buildings”

October 2015 -
Present

Editorial Board Member
Civil Engineering Journal, K.N. Toosi University of Technology, Tehran,
Iran

October 2010 - Present	<p>Technical Reviewer for 17 peer-review journals Earthquake Spectra, Engineering Structures, Earthquakes and Structures, Bulletin of Earthquake Engineering, Journal of Earthquake Engineering, Journal of Bridge Engineering, International Journal of Disaster and Risk Reduction, Algorithms, Geosciences, Materials, Computers and Concrete, Earthquake Engineering and Engineering Vibration, Structures and Buildings, International Journal of Geo-Information, Arabian Journal Science Engineering, NED University Journal of Research, Civil Engineering Journal</p>
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9. OTHER APPOINTMENTS

December 3, 2021	<p>Invited Speaker Earthquake Engineering Association of Turkey, Autumn Talks <i>Seismic Risk Assessment of School Buildings in Italy</i></p>
May 12, 2021	<p>Keynote Lecturer International Probabilistic Workshop (IPW2020), Guimaraes, Portugal <i>Probabilistic Seismic Risk Assessment of School Buildings</i></p>
January 2020 – Present	<p>Member of the Joint Commission Italian Department of Civil Protection and Eucentre Foundation</p>
October 2019	<p>Invited Theme Speaker Fifth International Conference on Earthquake Engineering and Seismology (5ICEES), Ankara, Turkey <i>Evaluation of different approaches for computation of expected annual seismic losses of RC bridge portfolios</i></p>
September 2019	<p>Member of Scientific Committee and Session Co-Organiser SECED 2019 Conference - Society for Earthquake and Civil Engineering Dynamics, Greenwich, UK <i>Risk assessment in developing countries</i></p>
May 2019	<p>Chairman 4th Second International Workshop on Seismic Performance of Non-Structural Elements (SPONSE), Pavia, Italy <i>Seismic demand on non-structural elements</i></p>
January 2018 – Present	<p>Senior Advisor Department of Education and Training Eucentre Foundation, Pavia, Italy</p>
December 2017	<p>Invited Speaker <i>Integrated seismic risk in Mediterranean and Middle-East countries - The case-studies of Palestine and Algeria</i> The XXXVII International Workshop on Seismicity and Seismic Hazard Mitigation in the Extended Mediterranean Region UNESCO-RELEMR 2017, Madrid, Spain</p>
April 2017	<p>Invited Speaker <i>Seismic Vulnerability and Loss Assessment of Italian School Buildings</i> Vulnerability and Loss Estimation Workshop USAID and GEM Foundation, Pavia, Italy</p>
August 2016	<p>Scientific Committee Member 6th International Disaster and Risk Conference IDRC Davos 2016</p>
July 2016	<p>Seismic Risk Consultant/Expert International Agency for Atomic Energy (IAEA), United Nations</p>
November 2015 – Today	<p>Invited PhD Examining Committee Member</p>

	<ol style="list-style-type: none"> 1. Tuba Tatar (Advanced Methodology for Estimation of Economic Losses in RC Buildings) PhD in Civil Engineering, University of Porto, Portugal, September 2019 2. Junaid Akbar (Strengthening of RC Frames using Haunch Retrofit Solutions), PhD in Civil Engineering, University of Engineering and Technology, Peshawar, Pakistan, February 2019 3. Luís Martins (Earthquake Damage and Loss Assessment of Reinforced Concrete Buildings) PhD in Civil Engineering, University of Porto, Portugal, May 14, 2018 4. Rita Peres (Performance Based Seismic Design and Assessment of Irregular Steel Structures) PhD in Civil Engineering, Technical University of Lisbon, Portugal, June 6, 2017 5. Fabrizio Cornalli (Evaluation of the Expected Annual Loss for Precast Concrete Industrial Structures) PhD in Civil Engineering, University of Bergamo, Italy, May 10, 2017 6. Luís Sousa (Development of innovative methodologies for the treatment of uncertainties in the earthquake loss assessment of building portfolios) PhD in Civil Engineering, University of Porto, Portugal, May 5, 2017 7. Miriam Lopez (Optimum seismic isolation design parameters for multi-span slab-girder skewed highway bridges) PhD in Civil Engineering, University of Porto, Portugal, November 6, 2015
May 2015	<p>Chairman 2nd Second International Workshop on Seismic Performance of Non-Structural Elements (SPONSE), Pavia, Italy <i>Design and Implementation Considerations II</i></p>
February 2015	<p>Scientific/Organizing Committee Member OECD Nuclear Energy Agency Committee on the Safety of Nuclear Installations (CSNI) Workshop on “Testing PSHA Results and Benefit of Bayesian Techniques for Seismic Hazard Assessment”, EUCENTRE, IUSS Pavia, Italy</p>
September 2014	<p>Scientific Committee Member and Invited Speaker <i>Contributions to seismic assessment of populations of bridges</i> Workshop “Field testing and seismic vulnerability assessment”, Austrian Institute of Technology, Vienna, Austria</p>
August 2014	<p>Chairman 2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey <i>Assessment and Design of Bridges</i></p>
May 2014 - Present	<p>Rector International College for Civil Protection “Cardinale Agostino Riboldi”, Pavia, Italy (appointed by the Eucentre Foundation)</p>
May 2013	<p>Chairman <i>The 13th International ROSE Seminar and The 1st International UME School Seminar</i>, Pavia, Italy</p>
September 2012	<p>Chairman 15th World Conference on Earthquake Engineering, Lisbon, Portugal</p> <ul style="list-style-type: none"> • <i>Assessment and Retrofitting of Existing Structures (Reinforced concrete structures and Isolation and anti-seismic devices)</i> • <i>Preparedness and Emergency Management of Large Earthquakes</i>
October 2010 – August 2014	<p>Collaborator Seismosoft Ltd – Earthquake Engineering Software Solutions Main Tasks: User Support, Licensing and Sales Management, Marketing and Outreach</p>

10. PUBLICATIONS

BIBLIOMETRIC INDICATORS

NUMBER OF JOURNAL ARTICLES:	74
NUMBER OF CITATIONS:	1388 (Scopus) 1774 (Google Scholar)
H-INDEX:	21

Journal Articles

[2023]

74. Abarca, A., Monteiro, R., O'Reilly, G. (2023) Seismic Risk Prioritisation Schemes for Reinforced Concrete Bridge Portfolios, *Structure and Infrastructure Engineering*. In-Press.
73. Carofilis, W., Clemett, N., Gabbianelli, G., O'Reilly, G., Monteiro, R. (2023) Influence of Parameter Uncertainty in Multi-Criteria Decision-Making when Identifying Optimal Retrofitting Strategies for RC Buildings, *Journal of Earthquake Engineering*, 27(7), 1769-1794.
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10. Pinho, R., Marques, M., Monteiro, R., Casarotti, C. (2008) Using the Adaptive Capacity Spectrum Method for the assessment of irregular frames. *Proceedings of the Fifth European Workshop on the seismic behaviour of Irregular and Complex Structures*, Catania, Italy, 271-281, Paper no. 21.
9. [P] Monteiro, R., Ribeiro, R., Marques, M., Delgado, R., Costa, A. (2008) Pushover Analysis of RC Bridges Using Fiber Models or Plastic Hinges. *Proceedings of the 14th World Conference on Earthquake Engineering*, Beijing, China, Paper no. 05-02-0146.
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6. Pinho, R., Casarotti, C., Monteiro, R. (2007) An Adaptive Capacity Spectrum Method and other Nonlinear Static Procedures Applied to the Seismic Assessment of Bridges. *Proceedings of the 1st US-Italy Seismic Bridge Workshop*, Pavia, Italy, 19-20 April.

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5. Delgado, R., Marques, M., Monteiro, R., Delgado, P., Romão, X., Costa, A. (2006) Setting Up Real or Artificial Earthquake Records for Dynamic Analysis. *Proceedings of the 1st European Conference on Earthquake Engineering and Seismology*, 7, 4840-4849, Paper no. 899.

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3. Delgado, P., Monteiro, R., Marques, M., Costa, A., Delgado, R. (2006) Probabilistic Seismic Safety Assessment of Bridges – Application to a Real Case. *Proceedings of the 1st European Conference on Earthquake Engineering and Seismology*, 9, 6244-6253, Paper no. 1144.
2. Delgado, P., Marques, M., Monteiro, R., Delgado, R., Costa, A. (2006) Avaliação Expedida da Segurança Sísmica de Pontes. *Proceedings of the 4^{as} Jornadas Portuguesas de Engenharia de Estruturas*, Lisbon, Portugal, 13-16 December. (in Portuguese)
1. [P] Delgado, P., Monteiro, R., Marques, M., Costa, A., Delgado, R. (2006) Avaliação Probabilística da Segurança Sísmica de Pontes. Aplicação a um Caso Prático. *Proceedings of the 4^{as} Jornadas Portuguesas de Engenharia de Estruturas*, Lisbon, Portugal, 13-16 December. (in Portuguese)

10. LANGUAGES

- Portuguese: Mother tongue
- English: *First Certificate in English (Grade A)*, Cambridge University, June 2006
- Italian: Fluen

11. PRIZES

- **2021 – Editor’s Choice Paper**
Buildings, MDPI
"Numerical Modelling and Validation of the Response of Masonry-Infilled RC Frames Using Experimental Testing Results"
- **2020 – Outstanding Paper Award**
International Association for Bridge and Structural Engineering (IABSE)
Scientific Paper: “Once upon a Time in Italy: The Tale of the Morandi Bridge”
- **2019 – Blind Prediction Competition**
QuakeCoRE – New Zealand Centre for Earthquake Resilience
Winner
- **2018 - Best Paper Award**
Springer Nature - Best Paper (Track 5) entitled “Preliminary Seismic Hazard Modelling in Northern Algeria” presented at the 1st Conference of the Arabian Journal of Geosciences (CAJG)
Hammamet, Tunisia, 12–15 November 2018
- **2014 - Visiting Research Scholar Scholarship**
European Commission (Erasmus Mundus)
Middle East Technical University, Ankara, Turkey, September-October 2014
- **2013 - SC@UM - Strengthening CFRP Challenge**
University of Minho, Portugal, June 28, 2013
Ranked 2nd.

- **2006 - Visiting Young Researcher Scholarship**
 Short-listed within the 40 participants of the training Course on "Seismic Hazard and Risk Assessment", ETH-Zurich (September 11-14, 2006) following the 1st European Conference in Earthquake Engineering and Seismology

- **2005 - Prize Mota-Engil**
 Mota-Engil, SGPS, S.A.
 Top student, Civil Engineering Degree, at Faculty of Engineering of University of Porto, academic year 2004/2005

- **2005 - Prize Engenheiro António de Almeida**
 Foundation Engenheiro António de Almeida
 Top student, Civil Engineering Degree, at Faculty of Engineering of University of Porto, academic year 2004/2005

- **2005 - Best Final Project (“Building Structures”)** in the Civil Engineering Degree at University of Porto, academic year 2004/2005

- **2000 - Prize Maia Rotary Club**
 Maia Rotary Club
 Top student, High School of Maia, academic year 1999/2000

- **2000 - Honoric Mention – V OIbF (Iberoamerican Physics Olympiad)**
 September 2000, Jaca, Spain