

CURRICULUM VITAE

RICARDO NUNO CARVALHO MONTEIRO

NOVEMBER, 2019

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. Aníbal 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
November 2016 – October 2019	Senior Assistant Professor, University School for Advanced Studies IUSS Pavia, Italy
December 2011 – October 2016	Junior Assistant Professor, University School for Advanced Studies IUSS Pavia, Italy
August 2011 – Present	Affiliated Post-Doctoral Researcher, European Centre for Training and Research in Earthquake Engineering, Pavia, Italy
August 2011 – Present	Affiliated Post-Doctoral 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 10 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>Early loss assessment methodologies for natural hazards</i>
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4. Perdomo C. (2019, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic loss assessment procedures for RC bridges*
5. Silva A. (2019, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE), *Implications of earthquake-induced loss control in seismic design provisions*
6. Torres J. (2019, expected), PhD in Risk and Emergency Management (REM) *Measuring Disaster Resilience of Communities in South America*
7. Abarca, A. (2021, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Seismic assessment of RC bridge infrastructure*
8. Shahnazaryan, D. (2021, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Consideration of expected annual losses in the seismic design of RC structures*
9. Mucedero, G. (2022, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Large scale seismic risk assessment of existing RC buildings in Italy*
10. Nafeh, A.M. (2023, expected), PhD in Earthquake Engineering and Engineering Seismology (ROSE) *Improved seismic loss estimation procedures for existing buildings*

Supervision or co-supervision of 39 Master Theses:

1. Purushothama, C. (2019) MSc in Geomechanics, Civil Engineering and Risks (University of Grenoble Alpes, France), *Simplified Seismic Assessment of Infilled RC Frames*
2. Leone, J. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Evaluation of Risk Consistency of Force-Based and Displacement-Based Design Methods*
3. 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*
4. Akan, O. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Establishing Displaced Shapes of Infilled RC Frames in Displacement-Based Design and Assessment*
5. Cripstyani, M. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Seismic Risk Assessment of Bridges in Indonesia*
6. Ahmed, S. (2019) MSc in Earthquake Engineering and Engineering Seismology (MEEES), *Large-Scale Seismic Risk Assessment and Definition of Retrofitting Strategies for RC Buildings*
7. 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*
8. Alvarez, L. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Effect of material mechanical property variability on seismic performance of steel frames*
9. Shahnazaryan, D. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Comparison of earthquake-induced losses of reinforced concrete and steel frame buildings*
10. Rica, V. (2018) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Integrated Seismic Risk in Palestine*
11. Carofilis, W. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic Loss Assessment and Retrofitting Strategies of a RC School Building*
12. Bellotti, V. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic assessment of low-rise masonry buildings in Groningen's province (NL)*
13. Zampieri, S. (2018) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Human-Induced Seismicity in Groningen: Prioritization of risk assessments and Resilience-Based Design*

14. Bagavasingam, T. (2018) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Development of Fragility Curves for RC Buildings in Northern Algeria*
15. 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*
16. Borozan J. (2017) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic assessment of RC buildings considering soil-structure interaction*
17. O’Hearne N. (2017) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Seismic numerical assessment of historical buildings*
18. Musta P. (2017) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Simplified Numerical Models for Seismic Performance of CFSTs*
19. Gaviria A. (2016) MSc in Risk and Emergency Management (REM), *Database of standards, practices and procedures for disaster risk reduction*
20. Sarchi, L. (2016) MSc in Risk and Emergency Management (REM), *Numerical modeling of non-engineered structures*
21. 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*
22. Kalemi, B. (2016) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Seismic Performance of RC Filled Steel Columns*
23. Mystiliadi, A. (2016) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Steel fibres reinforced concrete in static and dynamic conditions*
24. Qu, L. (2015) MSc Erasmus Mundus in Earthquake Engineering and Engineering Seismology (MEEES), *Seismic performance of RC structures with mixed steel-FRP rebars*
25. Vecere, A. (2015) MSc in Risk and Emergency Management (REM), *Post Disaster Needs Assessment – Shelter structures*
26. Ejiofor, M. (2015) MSc in Risk and Emergency Management (REM), *Flood Risk Model for Nigeria*
27. Civiletti, G. (2015) MSc in Risk and Emergency Management (REM), *Improved models for increased seismic risk awareness*
28. Jiang, Y. (2014) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Sustainable High Performance Concrete-Steel Tubular Columns for Seismic Areas*
29. Ahmed, K. (2014) MSc in Risk and Emergency Management (REM), *Seismic Risk Assessment in Pakistan*
30. Ghazaryan, A. (2014) MSc in Risk and Emergency Management (REM), *Disaster risk financing and insurance strategy*
31. Keramat, S. (2014) MSc in Risk and Emergency Management (REM), *Reducing Disaster Risk through Promotion of Rights and Good Governance*
32. Zhang, X. (2013) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Different Approaches to Derive Analytical Fragility Functions of Bridges*
33. Zelaschi, C. (2013) MSc in Earthquake Engineering and Engineering Seismology (ROSE), *Systemic characterization of RC bridges for seismic loss assessment*
34. 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*
35. Sepitci, B. (2013) MSc in Risk and Emergency Management (REM), *The Relationship between Global Climate Change and Rainfall Induced Natural Hazards*
36. 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*

37. González, R. (2013) MSc in Risk and Emergency Management (REM), *From hurricane hazard modelling to risk assessment; a comparative study*
38. Servi, Y. (2013) MSc in Risk and Emergency Management (REM), *Disaster Risk Management for the East Asia and Pacific Region*
39. 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

- January 2019 – Present** **Research Unit Coordinator**
IUSS Pavia, Italy
ReLUIS - Network of Seismic Engineering University Laboratories
 Work Package 5 – Assessment of integrated seismic retrofitting schemes
 Funded by: Italian Civil Protection Department
 Budget: €75,000.00
- August 2018 – Present (August 2021)** **Coordinator**
IUSS Pavia, Italy
Intensive course on “Risk Assessment and Emergency Management of Disasters due to Natural Hazards”
 Funded by: Earthquake Disaster Policy Division, Ministry of the Interior and Safety, South Korea
 Budget: €19,000.00
- August 2018 – Present (August 2021)** **WP Coordinator (PI: Dr. José Miguel Castro)**
IUSS Pavia, Italy and University of Porto, Portugal
MitRisk - Framework for seismic risk reduction resorting to cost-effective retrofitting solutions
 Funded by: Portuguese National Foundation for Science and Technology
Main Tasks: Cost-benefit analysis in seismic loss estimation
 Budget: €160,670.97
- January 2018 – Present** **Co-Principal Investigator (Co-PI: Prof. Michele Calvi)**
Eucentre Foundation, Italy
INFRA-NAT – Increased Resilience of Critical Infrastructure under Natural and Human-induced Hazards
 Funded by: European Commission – DG-ECHO
 Budget: €762,839.05
- January 2018 – Present** **Deputy Coordinator (PI: Prof. Michele Calvi)**
IUSS Pavia, Italy
Dipartimenti di Eccellenza - Revision of Seismic Action and Design
 Funded by: Italian Ministry of Education and Research (MIUR)
 Budget: €8,205,100.00
- January 2017 – December 2018** **Principal Investigator**
IUSS Pavia, Italy
ITERATE – Improved Tools for Disaster Risk Mitigation in Algeria
 Funded by: European Commission – DG-ECHO
 Budget: €568,281.00

<p>January 2017 – Present (31/12/2019)</p>	<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>
<p>January 2016 – December 2017</p>	<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>
<p>January 2016 – December 2018</p>	<p>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</p>
<p>28 January 2015 – 25 July 2018</p>	<p>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</p>
<p>January 2015 – December 2016</p>	<p>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</p>
<p>January 2015 – June 2016</p>	<p>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</p>
<p>June 2014 – Present</p>	<p>Coordinator IUSS Pavia, Italy <i>Erasmus+ Mobility Programme</i> Funded by: European Commission Budget: €94,927.00</p>
<p>January 2014 – Present</p>	<p>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</p>
<p>January 2014 – December 2015</p>	<p>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</p>

September 2013 – February 2019	<p>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</p>
June 2013 – September 2015	<p>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</p>
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

October 2019	<p>Invited Lecturer Stellenbosch University, South Africa</p> <ul style="list-style-type: none"> – MEng/PhD in Civil Engineering, 1-week intensive course on “<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>”
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</p> <ul style="list-style-type: none"> – 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>”
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	<p>Invited Lecturer Stellenbosch University, South Africa 1-day session in Johannesburg for practitioners on “<i>Seismic Design of RC Buildings</i>”</p>
October 2015	<p>Invited Lecturer Stellenbosch University, South Africa MEng/PhD in Civil Engineering, 1-week intensive course on “<i>Seismic Design of RC Buildings</i>”</p>
April 2013 – May 2014	<p>Teaching Assistant IUSS Pavia, Italy <i>Myths and Fallacies in Structural Engineering</i> (Lecturer: Gian Michele Calvi)</p>
November 2013	<p>Invited Lecturer Eucentre Foundation, Pavia, Italy 2-day course for practitioners on “<i>Displacement Based Seismic Design of RC Buildings</i>”</p>
November 2012	<p>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.</p>
May – June 2012	<p>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)</p>
November 2011	<p>Teaching Assistant IUSS Pavia, Italy <i>Understanding Earthquake Engineering</i> (Lecturer: Gian Michele Calvi)</p>
February – March 2011	<p>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)</p>
September 2007 – February 2008	<p>Teaching Assistant Faculty of Engineering, University of Porto, Portugal MSc in Civil Engineering <i>Structural Analysis</i></p>

6. ACADEMIC COORDINATION

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 2016 - present	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 2 nd 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	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

9. OTHER APPOINTMENTS

October 2019	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>
September 2019	Chairman & Session Co-Organiser SECED 2019 Conference - Society for Earthquake and Civil Engineering Dynamics, Greenwich, UK <i>Risk assessment in developing countries</i>
May 2019	Chairman 4 th Second International Workshop on Seismic Performance of Non-Structural Elements (SPONSE), Pavia, Italy <i>Seismic demand on non-structural elements</i>
January 2018 – Present	Senior Advisor Department of Education and Training Eucentre Foundation, Pavia, Italy
December 2017	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
April 2017	Invited Speaker <i>Seismic Vulnerability and Loss Assessment of Italian School Buildings</i> Vulnerability and Loss Estimation Workshop USAID and GEM Foundation, Pavia, Italy
August 2016	Scientific Committee Member 6 th International Disaster and Risk Conference IDRC Davos 2016
July 2016	Seismic Risk Consultant/Expert International Agency for Atomic Energy (IAEA), United Nations
November 2015 – Today	Invited PhD Examining Committee Member <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

	<ol style="list-style-type: none"> 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:	36
NUMBER OF CITATIONS:	417 (Scopus) 563 (Google Scholar)
H-INDEX:	13

Journal Articles

[2020]

36. Silva, A., Monteiro, R., Castro, J.M. (2020) A Rational Approach to the Conversion of FEMA P-58 Seismic Repair Costs to Europe, Earthquake Spectra. In-Press.
35. Bellah Nafeh, A.M., O'Reilly, G., Monteiro, R. (2020) Simplified seismic assessment of infilled RC frame structures, Bulletin of Earthquake Engineering. In-Press.
34. González, I., Silva, A., Macedo, L., Monteiro, R., Castro, J.M. (2019) Critical Assessment of Estimation Procedures for Floor Acceleration Demands in Steel Moment-Resisting Frames, *Frontiers in Built Environment*, 5(139).
33. Grigoratos, I., Monteiro, R., Ceresa, P., Di Meo, A., Faravelli, M., Borzi, B. (2020) Crowdsourcing Exposure Data for Seismic Vulnerability Assessment in Developing Countries, *Journal of Earthquake Engineering*. In-Press.

[2019]

32. Silva, V., Akkar, S., Baker, J., Bazzurro, P., Castro, J.M., Crowley, H., Dolsek, M., Galasso, C., Lagomarsino, S., Monteiro, R., Perrone, D., Pitilakis, K., Vamvatsikos, D. (2019) Current Challenges and Future Trends in Analytical Fragility and Vulnerability Modelling, *Earthquake Spectra*, 35(4), 1927-1952.
31. Monteiro, R., Zelaschi, C., Silva, A., Pinho, R. (2019) Derivation of Fragility Functions for Seismic Assessment of RC Bridge Portfolios Using Different Intensity Measures, *Journal of Earthquake Engineering*, 23(10), 1678-1694.
30. Jiang, Y., Silva, A., Macedo, L., Castro, J.M., Monteiro, R., Chan, T.-K. (2019) Concentrated-plasticity modelling of circular concrete-filled steel tubular members under flexure, *Structures*, 21, 156-166.
29. Zelaschi, C., Monteiro, R., Pinho, R. (2019) Critical Assessment of Intensity Measures for Seismic Response of Italian RC Bridge Portfolios, *Journal of Earthquake Engineering*, 23(6), 980-1000.
28. Silva, A., Castro, J.M., Monteiro, R. (2019) Practical considerations on the design of concentrically-braced steel frames to Eurocode 8, *Journal of Constructional Steel Research*, 158, 71-85.
27. Calvi, G.M., Moratti, M., O'Reilly, G., Scattarreggia, N., Monteiro, R., Malomo, D., Calvi, P.M., Pinho, R. (2019) Once upon a Time in Italy: The Tale of the Morandi Bridge, *Structural Engineering International*, 29(2), 198-217.
26. O'Reilly, G., Monteiro, R. (2019) Probabilistic models for structures with bilinear demand-intensity relationships, *Earthquake Engineering and Structural Dynamics*, 48(2), 253-268.
25. Segura, R., Bernier, C., Monteiro, R., Paultre, P. (2019) On the Seismic Fragility Assessment of Concrete Gravity Dams in Eastern Canada, *Earthquake Spectra*, 35(1), 211-231.
24. O'Reilly, G., Perrone, D., Fox, M., Monteiro, R., Filiatrault, A., Lanese, I., Pavese, A. (2019) System Identification and Seismic Assessment Modelling Implications for Italian School Buildings, *Journal of Performance of Constructed Facilities (ASCE)*, 33(1), 04018089.

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23. Rodriguez, C., Monteiro, R., Ceresa, P. (2018) Assessing seismic social vulnerability in urban centres - the case-study of Nablus, Palestine, *International Journal of Architectural Heritage*, 12(7-8), 1216-1230.
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10. LANGUAGES

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

11. PERSONAL SKILLS AND COMPETENCES

- Experienced in structural modelling of RC bridges in nonlinear analysis software.
- Competent in graphical applications (Autodesk Autocad, Microstation);
- Competent in structural software (SAP2000, SeismoStruct, Robot, CypeCad);
- Competent in calculus application software (Matlab, Fortran, Visual Basic)

12. PRIZES

- **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 - Honorific Mention – V OIBF (Iberoamerican Physics Olympiad)**
September 2000, Jaca, Spain