

CURRICULUM VITAE

TITLE AND NAME	Dr Rui Pinho
NATIONALITY	Portuguese
CONTACT	c/o Civil Engineering and Architecture Department via Ferrata, 27100 Pavia, Italy Email: rui.pinho@unipv.it
HIGHER EDUCATION	<i>Degree in Civil Engineering</i> , 1995 University of Porto, Portugal <i>MSc in Earthquake Engineering and Structural Dynamics</i> , 1996 Imperial College London, UK <i>PhD in Earthquake Engineering</i> , 2000 Imperial College London, UK
PRESENT APPOINTMENTS	2001 – Earthquake Engineering Academic (currently, Full Professor) University of Pavia, Italy 2001 – Co-founder and Technical Director Seismosoft Ltd, Pavia, Italy 2014 – Co-founder and Technical Director Mosayk Ltd, Pavia, Italy 2014 – Earthquake Engineering and Seismic Risk Consultant Pavia, Italy
PAST APPOINTMENTS	1999 – 2001 Earthquake Engineering Academic (Lecturer) Imperial College London, UK 2005 – 2009 Senior Researcher Eucentre Foundation, Pavia, Italy 2009 – 2013 Secretary-General GEM Foundation, Pavia, Italy 2014 – 2019 Director of Science Eucentre Foundation, Pavia, Italy
EXPERIENCE OVERVIEW	Author and co-author of close 350 scientific publications on a number of earthquake engineering topics (H-index of 51, source: Google Scholar). Guest/keynote speaker at national and international earthquake engineering conferences worldwide, peer reviewer for technical journals and funding agencies, recipient of several awards. Consultant on a number of seismic risk assessment and earthquake engineering projects for clients such as e.g.: <ul style="list-style-type: none"> . NAM (<i>development of a risk model for natural gas extraction induced seismicity in the Groningen region, Netherlands</i>) . OGA (<i>development of a risk model for hydraulic fracturing induced seismicity in Preston North Road, Lancashire, UK</i>) . UNICREDIT (<i>seismic risk assessment of corporate buildings portfolio</i>) . GASPLUS (<i>evaluation of triggered seismicity potential in the Emilia region, Italy</i>) . UNDP-Jordan (<i>training on seismic assessment and retrofitting of buildings in Jordan</i>) . EDF (<i>review of a seismic hazard model development for France and Northern Italy</i>) . NYLIC (<i>seismic design of a cable-stayed bridge in Guayaquil, Ecuador</i>) . Glaxo-Wellcome (<i>seismic assessment of headquarters in Cairo, Egypt</i>)

Manager at a number of organisations of academic (ROSE School), research (EUCENTRE Foundation), risk assessment (GEM Foundation), software development (Seismosoft Ltd.) and engineering consultancy (Mosayk Ltd.) nature. Coordinator of a number of national, european and global applied research projects.

**MEMBERSHIP
PROFESSIONAL
BODIES**

National Licensed Civil Engineers Association, Portugal, 1996 – to date
Society of Earthquake and Civil Engineering Dynamics, UK, 1996 – to date
European Association for Earthquake Engineering, 2003 – to date
Earthquake Engineering Research Institute, 2008 – to date

**HONOURS AND
AWARDS**

IABSE Outstanding Paper Award, 2020
APES Best Journal Paper Award, 2016
APES Best Journal Paper Award, 2014
EERI Shah's Prize for Innovation in Earthquake Engineering, 2007
Best Paper Award, ISET Journal of Earthquake Engineering, 2000
Short-listed for the 'IStructE Young Researcher Award', UK, 1997
Doctoral Scholarship from the Calouste Gulbenkian Foundation, Portugal, 1997
Research Scholarship from the European Commission, under the framework of the ICONS project, 1997
Distinction award and recognition as top graduate student at the Masters in Earthquake Engineering of Imperial College London, 1996
Top final year student in the specialisation of Analysis and Design of Structures, University of Porto, 1995

**KEYNOTE/GUEST
LECTURES**

Fifth National Conference on Structural Engineering, Lisbon, Portugal, 2014
Twenty Third Colloquium of African Geology, Johannesburg, South Africa, 2011
ENHANS International Workshop on Extreme Natural Hazards and Disaster Risk in Africa, Pretoria, South Africa, 2011
International Research Workshop on Economics of Natural Disasters, Venice, Italy, 2011
ESF Research Conference on Understanding Extreme Geohazards, Sant Feliu de Guixols, Spain, 2011
Integrated Risk Disaster Research Conference, Beijing, China, 2011
Tenth International Conference on Credit Risk Evaluation, Venice, Italy, 2011
Third International Disaster and Risk Conference, Davos, Switzerland, 2010
Twelfth Ministerial Session of the European and Mediterranean Major Hazards Agreement, EUR-OPA, Saint Petersburg, Russian Federation, 2010
AGU Meeting of the Americas, Iguassu, Brazil, 2010
International Disaster and Risk Conference (IDRC), Chengdu, China, 2009
Second Conference of the OECD International Network on the Financial Management of Large-scale Catastrophes, Bangkok, Thailand, 2009
World Forum of Catastrophe Programmes, Taipei, Taiwan, 2009
IUA Catastrophe Modelling, London, UK, 2009
International Conference of Seismology in South-America, Lima, Peru, 2009
International Workshop on Disaster Risk Reduction, Brussels, Belgium, 2009
Second International Conference on Asian Catastrophe Insurance, Beijing, China, 2009
Seventh National Conference on Earthquake Engineering and Seismology, Porto, Portugal, 2007
Sixteenth National Conference on Civil Engineering, Arequipa, Peru, 2007
Twentieth Regional Conference on Earthquake Engineering, Sion, Switzerland, 2001

LANGUAGES

Portuguese: native language

English: fluent (reading, listening, speaking, writing)

Italian: fluent (reading, listening, speaking, writing)

Spanish: fluent (reading); intermediate (listening); basic (speaking, writing)

RELEVANT PUBLICATIONS SAMPLE

(full 325 list available upon request)

Pinho R., Elnashai A.S. (2000) "Dynamic collapse testing of a full-scale four storey RC frame," *ISET Journal of Earthquake Engineering, Special Issue on Experimental Techniques*, Vol. 37, No. 4, pp. 143-164.

Glaister S., Pinho R. (2003) "Development of a simplified deformation-based method for seismic vulnerability assessment," *Journal of Earthquake Engineering*, Vol. 7, Special Issue 1, pp. 107-140.

Crowley H., Pinho R., Bommer J.J. (2004) "A probabilistic displacement-based vulnerability assessment procedure for earthquake loss estimation," *Bulletin of Earthquake Engineering*, Vol. 2, No. 2, pp. 173-219.

Grant D.N., Bommer J.J., Pinho R., Calvi G.M., Goretti A., Meroni F. (2007) "A prioritization scheme for seismic intervention in school buildings in Italy," *Earthquake Spectra*, Vol. 23, No. 2, pp. 291-314.

Bal I., Crowley H., Pinho R. (2008) "Displacement-based earthquake loss assessment for an earthquake scenario in Istanbul," *Journal of Earthquake Engineering*, Vol. 12, Special Issue 2, pp. 12-22.

Tarque N., Crowley H., Pinho R., Varum H. (2012) "Displacement-based fragility curves for seismic assessment of adobe buildings in Cusco, Peru," *Earthquake Spectra*, Vol. 28, No. 2, pp. 759-794.

Silva S., Crowley H., Pagani M., Monelli D., Pinho R. (2014) "Development of the OpenQuake engine, the Global Earthquake Model's open-source software for seismic risk assessment," *Natural Hazards*, Vol. 72, No. 3, pp. 1409-1427.

Silva V., Crowley H., Varum H., Pinho R. (2015) "Seismic Risk Assessment for mainland Portugal," *Bulletin of Earthquake Engineering*, Vol. 13, No. 2, pp. 429-457.

Bommer J.J., Crowley H., Pinho R. (2015) "A risk-mitigation approach to the management of induced seismicity," *Journal of Seismology*, Vol. 19, pp. 623-646.

Casotto C., Silva V., Crowley H., Nascimbene R., Pinho R. (2015) "Seismic fragility of Italian RC precast industrial structures," *Engineering Structures*, Vol. 94, pp. 122-136.

Crowley H., Pinho R., Polidoro B., van Elk J. (2017) "Developing fragility and consequence models for buildings in the Groningen field," *Netherlands Journal of Geosciences*, Vol. 96, No. 5, pp. s247-s257.

Calvi G.M., Moratti M., O'Reilly G.J., 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*, Vol. 29, No. 2, pp. 198-217.

van Elk J., Bourne S.J., Oates S.J., Bommer J.J., Pinho R., Crowley H. (2019). "A probabilistic model to evaluate options for mitigating induced seismic risk." *Earthquake Spectra*, Vol. 35, No. 2, pp. 537-564.

Brunesi E., Peloso S., Pinho R., Nascimbene R. (2019) "Shake-table testing of a full-scale two-story precast wall-slab-wall structure," *Earthquake Spectra*, Vol. 35, No. 4, pp. 1583-1609.

Caruso M., Pinho R., Bianchi F., Cavalieri F., Lemmo M.T. (2020) "A life cycle framework for the identification of optimal building renovation strategies considering economic and environmental impacts," *Sustainability*, Vol. 12, pp. 10221.

Edwards B., Crowley H., Pinho R., Bommer J.J. (2021) "Seismic hazard and risk due to induced earthquakes at a Shale gas site," *Bulletin of the Seismological Society of America*, available online at: <https://doi.org/10.1785/0120200234>.