

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name **ALFREDO PERES DE NORONHA CAMPOS COSTA**  
Address **Campo Grande 380, Lote 3A, 1A 1700-096 Lisboa**  
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<http://www.lnec.pt/organizacao/de/nesde>  
Nationality **Portuguesa**  
Birth **23-07-1954**



## MAIN FIELDS OF RESEARCH INTEREST

- Earthquake Engineering and Structural Civil Engineering Dynamics.
- Probabilistic Seismic Hazard Analysis (PSHA) and Probabilistic Seismic Risk Analysis (PSRA).
- In-situ dynamic testing of full scale civil engineering structures.
- Shake-table seismic testing of large scale civil engineering structures.

## RTD ACTIVITIES

Organization **Laboratório Nacional de Engenharia Civil (LNEC)**  
**Structures Department (DE)**  
**Earthquake Engineering and Applied Dynamics Division (NESDE)**  
**Av. do Brasil, 101**  
**1700-066 Lisbon, Portugal**

Field of activity of the organization **Public organization of Science and Technology in Civil Engineering**

Date (from-to) **1983 – 2008**

Positions **Research Trainee (1983 –1986); Research Assistant (1986 –1994); Research Officer (1994-1998); Senior Research Officer (since 1998)**

Main scientific activities and responsibilities in LNEC

- Scientific responsible for coordination and/or development and of RTD projects financed by Portuguese Science Foundation (FCT) or co-financing by the European Commission (EC).
- Scientific responsible for coordination and/or development of several LNEC studies of advisory service under contract of public and private national bodies.
- Collaboration in management of the technical and scientific activities of the LNEC Earthquake Engineering division. Participation in the drafting and submission of numerous RTD projects proposals for co-financing by the FCT or the EC.
- Coordination of scientific activities of national and international PhD students, or post-doctoral grant holders, that have worked in the LNEC Earthquake Engineering division in the framework of the scientific cooperation with national or international research institutions.
- Supervisor of several MSc students. Supervisor or co-supervisor of 6 PhD thesis that were under development in LNEC and were submitted in Technical University of Lisbon (IST), University of Porto (FEUP) and University of Minho (UM).
- Author or co-author of 70 LNEC expert technical reports contracted by public and private national bodies.
- Author or co-author of 130 papers published in the proceedings of national and international conferences.
- Co-author of about 20 papers in specialized magazines or chapters in scientific books with reviewers.
- Lecturer of about 40 lecture or key-note lectures, in scientific conferences, seminars or advanced courses organized by national or international scientific institutions.
- Participation in the organizing or scientific committees, and/or invited chairman (or co-chairman) for conferences, seminars or advanced courses at national or international level. Invited for member of jury of several MSc and PhD thesis.
- Member of the Sub-Commission 8, SC8, for the elaboration of the National Application Document of the EUROCODE 8.
- Scientific auditing member of the Mediterranean Major Hazards Agreement (EUR-OPA) platform for co-operation between European and Southern Mediterranean countries in the field of major natural and technological disasters. A network of twenty seven institutes co-financed by the Council of Europe. Its field of action covers the knowledge of hazards, risk prevention, risk management, post-crisis analysis and rehabilitation.

<b>ACADEMIC DEGREES</b>	
<b>Post-Doctoral Studies</b>	
Date (from-to)	1994-1996
Type and description of the institution	Research Institute Joint Research Centre - JRC - European Commission European Laboratory for Structural Assessment – ELSA ( <a href="http://elsa.jrc.ec.europa.eu/">http://elsa.jrc.ec.europa.eu/</a> ) Ispra, Italy
Main disciplines/professional skills	Seismic Reliability of Building Structures, Seismic Hazard and Seismic Risk Analysis.
Obtained degree	Post-doctoral grant holder of the Human Capital and Mobility (HCM) of EU
<b>Doctor of Philosophy - PhD</b>	
Date (from-to)	1988-1994
Type and description of the institution	University of Porto Faculdade de Engenharia da Universidade do Porto – ( <a href="http://www.fe.up.pt">http://www.fe.up.pt</a> ) FEUP Porto, Portugal
Main disciplines/professional skills	Structural Dynamics, Seismic Behaviour of Building Structures, Seismic Hazard, Seismic Reliability and Seismic Risk of Building Structures.
Obtained degree	PhD in Civil Engineering
<b>Master of Science Degree - MSc</b>	
Date (from-to)	1982-1984
Type and description of the institution	Mestrado em Engenharia de Estruturas Instituto Superior Técnico, IST ( <a href="http://www.ist.utl.pt">http://www.ist.utl.pt</a> ) Universidade Técnica de Lisboa, Portugal
Main disciplines/professional skills	Stochastic Structural Dynamics, Seismic Behaviour of Structures
Obtained degree	MSc in Structural Engineering
<b>University Graduation</b>	
Date (from-to)	1976-1982
Type and description of the institution	Centro de Ciências Exactas e de Tecnologia Pontifícia Universidade Católica do Paraná – PUCPR ( <a href="http://www.pucpr.br">http://www.pucpr.br</a> ) Curitiba, Paraná, Brasil
Main disciplines/professional skills	General graduation in Civil Engineering.
Obtained degree	Civil Engineer
<b>RECENT PUBLICATIONS IN THE FIELD OF PROBABILISTIC SEISMIC RISK ANALYSIS</b>	
	<u>CAMPOS COSTA, A.</u> ; SOUSA, M.L.; CARVALHO, A.; COELHO, E.; 2006. <i>Seismic loss scenarios based on hazard disaggregation. Application to the Metropolitan Region of Lisbon, Portugal.</i> Chapter 21 of the book "Assessing and Managing Earthquake Risk. Geo-scientific and Engineering Knowledge for Earthquake Risk Mitigation: developments, tools, techniques", Editors: C.S. Oliveira, A. Roca and X. Goula, publisher: Springer.
	OLIVEIRA, C.S.; <u>CAMPOS COSTA, A.</u> ; 2006. <i>Overview on earthquake hazard assessment – methods and new trends.</i> Chapter 2 of the book "Assessing and Managing Earthquake Risk. Geo-scientific and Engineering Knowledge for Earthquake Risk Mitigation: developments, tools, techniques", Editors: C.S. Oliveira, A. Roca and X. Goula, publisher: Springer.
	<u>CAMPOS COSTA, A.</u> ; SOUSA, M. L.; CARVALHO, A.; COELHO, E.; 2007. <i>Seismic Risk and mitigation analysis of the metropolitan area of Lisbon.</i> Sísmica 2007 – 7º Encontro Nacional de Sismologia e Engenharia Sísmica, Porto.
	CARVALHO, A.; ZONNO, G.; FRANCESCHINA, G.; SERRA, J. Bilé; <u>CAMPOS COSTA, A.</u> ; 2008. <i>Earthquake shaking scenarios for the Metropolitan Area of Lisbon.</i> Soil Dynamics and Earthquake Engineering, doi: 10.1016/j.soildyn.2007.07.009.
	SOUSA, M. L.; <u>CAMPOS COSTA, A.</u> , 2008. <i>Ground motion scenarios consistent with probabilistic seismic hazard disaggregation analysis. Application to Mainland Portugal.</i> accepted for publication in Bulletin of Earthquake Engineering