curriculum vitae

PERSONAL INFORMATION

Surname		**JAFARZAD ESLAMI**
Name		**BABAK**

Education and training

• Date (from – to)		2012-2016
• Name and type of organisation providing education and training		University of Pavia
Duration of the program of study		3 years
• Principal subjects/occupational skills covered		Phd
• Title of qualification awarded		Civil and Architectural Engineering
Final mark obtained		
• Date (from – to)		2015-2016
• Name and type of organisation providing education and training		Polytechnic University of Catalonia
Duration of the program of study		6 months
• Principal subjects/occupational skills covered		The thesis activities in modeling and identification magneto rheological fluid damper
• Title of qualification awarded		ERASMUS

• Date (from – to)		2008-2012
• Name and type of organisation providing education and training		University of Genova
Duration of the program of study		5 years
• Principal subjects/occupational skills covered		Master
• Title of qualification awarded		Civil and Construction Engineering
Final mark obtained		92/110

graduation thesis

Title		The retrofit monumental buildings through seismic dampers (in Phd)
Language		Italian
Supervisor		Prof. Andrea Del Grosso
Thesis Summary		The project was defined to apply seismic vulnerability of heritage masonry walls is assessed in this work by conducting extensive numerical studies on both unreinforced (fixed-base) and reinforced (Base Isolation System) masonry walls. In this manner, finite element modelling and

		analysis (using ABAQUS) are performed as a comparative study between a fixed-base masonry wall and similar base-isolated wall retrofitted with laminated rubber bearings. [Nonlinear time history analysis (using the actual Bam earthquake) have been recognized as a useful tool for the description of the behaviour of masonry structures. Actually, they enable one to describe the pre-peak and post-peak behaviour of the masonry walls. Finally, comparison of the failure modes between unreinforced and reinforced masonry walls shows a great efficiency of using the rubber bearing isolation (passive control vibration devices) for a reduction in acceleration and an increase in the structural resistance to earthquake excitations.
Title		Soltanieh Dome (in Master)
Language		Italian
Supervisor		Prof. Andrea Del Grosso
Thesis Summary		The project was defined to apply seismic vulnerability analysis on a particular historic masonry structure, “Soltanieh dome” constructed as a tomb about 700 years ago in Iran based on “Vasseghi et al, JSEE, 8 (2007) 221-227”. To simplify the model, the main building was disregarded and the shell elements were used with both bending and membrane capabilities to model the dome with fixed base. Firstly, finite element analysis in ANSYS considering linear material behaviour was applied to the model for gravity load and 3 different levels of seismic hazard, events with 75, 475 and 2500 years return periods, so that the stress results were verified by those presented in the paper mentioned above. Afterwards the stress results were compared with failure envelope of masonry material used in the dome to identify the locations of crushes. finally nonlinear static analysis was employed to reach an approximate assessment about seismic resistance of the dome for 3 mentioned levels of seismic hazard.

publications and articles

Author(s) and title		Babak Jafarzad Eslami, Hossein Darban & Andrea Del Grosso Effect of mortar-brick cohesive interface on seismic response of masonry walls (to be submitted)
Language		English
Publication place		17th IBMAC 2020, Krakow, Poland
Date of publication		2020
Author(s) and title		Babak Jafarzad Eslami & Andrea Del Grosso, Retrofit of masonry buildings through seismic dampers
Language		English
Publication place		Conference on MECHANICS OF MASONRY STRUCTURES strengthened with composite materials: Modeling, testing, design, monitoring, control (murico6),Bologna, Italia
Date of publication		2019
Author(s) and title		Babak Jafarzad Eslami, The retrofit of masonry buildings
Language		Italian
Publication place		Conference on Computational Mechanics-Ferrara
Date of publication		2018

Author(s) and title		Ali Deghan & Babak jafarzad Eslami, Estimation of velocity profile in trapezoidal open channels using ANNS
Language		Persian
Publication place		Conference on Civil engineering, Architecture of Islamic country, Tabriz-Iran
Date of publication		2018

Author(s) and title		Ali Ronood & Babak jafarzad Eslami Industrial waste water treatment of petrochemical units by designing hydrological cycle
Language		Persian
Publication place		International Conference on Civil engineering, Architecture and Urban Development management in Iran
Date of publication		2018

Certifications

Certifications of language knowledge		CEFR-B1
Other certification		Examination state of Iranian civil engineering society

Work experience, stages, studies abroad

• Date (from – to)		2017-2019
• Name and address of firm/university		University of Ghiasesdin (in Iran)
• Type of business or sector		Department of Civil Engineering and Architecture
• Type of employment		Full time
• Main activities and responsibilities		Assistant Professor & Head of Department of Civil Engineering and Architecture
• Date (from – to)		2009-2010
• Name and address of firm/university		**Ansaldo** s.p.a.
• Type of business or sector		Technical and security office of metro construction
• Type of employment		Apprenticeship, part time
• Main activities and responsibilities		Collaboration in preparing security plan of the construction, project control
• Date (from – to)		2004-2007
• Name and address of firm/university		Payandan s.r.l
• Type of business or sector		Technical office of gas pipeline construction
• Type of employment		Full time engineer
• Main activities and responsibilities		Project control, supervision, as-built plots, preparation of economical proceedings and statements

Teaching and academic experience

• Teaching		Undergraduate courses: Strength of material, Seismic engineering, Consolidation of structure Postgraduate course (in Structural Engineering): Finite element method, Seismic rehabilitation
• Supervisor		9 Postgraduate Theses
• Member examination committees		Over 30 Postgraduate candidates in Civil Engineering Dept

Personal skills and competences

Mother tongue		Persian

Other language(s)

		Italian
• reading		excellent

• writing		excellent
• speaking		excellent

		English
• reading		good
• writing		good
• speaking		good

		Arabic
• reading		good
• writing		good
• speaking		elementary

Organisational skills and competences		Managing staff Responsibility for Teaching and Students Responsibility for Research Financial Management

Technical skills and competences		ETABS, SAP, SAFE, ABAQUS, ANSYS, SEISMOSIGNAL, AUTOCAD, GIS, MATLAB, MS. PROJECT, Maple Analyse, design and retrofit of reinforced concrete and steel structures based on ACI, AISC, UBC and FEMA356 Retrofit of masonry buildings based on FEMA356