

PERSONAL INFORMATION

Fabrizio Paolacci



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Sex M | Date of birth 08/06/1965 | Nationality Italian

Curriculum Vitae

Place and date of birth: Cave(Rm), Italy, June 08, 1965

May 1992 – degree in Civil Engineering at University of Rome “La Sapienza”

September 1997 – Ph.D in Structural Engineering

September 1999 to March 2000 visiting scholar at the Department of Civil and Environmental Engineering - University of California, Berkeley.

July 2000 – Research Fellowship at the Department of Science of Architecture - University Roma Tre

September 2000 – Technical Director of the Laboratory of Material and Structures - Department of Structure of University Roma Tre.

October 2005 to now– Assistant Professor of Structural Engineering at the Faculty of Engineering of the University Roma Tre.

October 2010 – Member of the scientific council of the Ph.D School of Engineering - University Roma Tre

June 2011 to 2013 – Head of Laboratory of Material and Structures - Department of Structure of Roma Tre University

March 2017 - National Scientific Qualification as Associate Professor in Structural Engineering (Abilitazione Scientifica Nazionale - Professore Associato)

July 2017 to now– Chair of the Seismic Engineering Technical Committee of ASME PVP Division

June 2019 to now– Chair of the WG13 of the European association of Earthquake Engineering on seismic analysis of industrial installations

September 2018 - National Scientific Qualification as Full Professor in Structural Engineering (Abilitazione Scientifica Nazionale - Professore Ordinario)

March 2021 - Founder and Technical Director of the spin-off SAFEPLANT

WORK EXPERIENCE

From 2023 to now

Full Professor in Structural Engineering

Roma Tre University, Department of Civil, Computer Science and Aeronautical Technologies Engineering, Via Vito Volterra 62, 00146, Rome, Italy

Main Research Topics

- Resilience of critical infrastructures under catastrophic natural events
- Multi-Risk analysis of civil and industrial structures
- Performance-based assessment of existing infrastructures
- Employment of new sustainable solutions in civil engineering

Sector Resilience and Risk Engineering

From 2019 to 2023 **Associate Professor in Structural Engineering**
 Roma Tre University, Department of Engineering, Via Vito Volterra 62, 00146, Rome, Italy
 Main Research Topics

- Performance-based design/assessment of civil and industrial constructions
- Seismic risk of major-hazard industrial plants and mitigation Strategies for resilience enhancement under Na-tech events
- Resilience quantification for critical infrastructures under catastrophic events
- Multi-Risk analysis of civil and industrial structures

Sector Structural and Na-Tech Risk Engineering

From 2005 to 2019 **Assistant Professor in Structural Engineering**
 Roma Tre University, Department of Engineering, Via Vito Volterra 62, 00146, Rome, Italy
 Main Research Topics

- Performance-based design of steel-concrete composite bridges
- Assessment and seismic response mitigation of reinforced concrete buildings and bridges
- Seismic risk of major-hazard industrial plants and applicability of innovative protection systems (base isolation and energy dissipation)
- Seismic vulnerability of high-voltage electric networks and substations and applicability of innovative seismic protection systems
- Passive and semi-active control of structures

Sector Structural and Seismic Engineering

From 2000 to 2004 **Chief Engineer**
 Roma Tre University, Department of Structures, Via Vasca Navale 79, 00146, Rome, Italy
 Main activity

- Responsible for the Technical activities in the Laboratory of Material and Structures

Sector Experimental activities in Structural/Seismic Engineering

EDUCATION AND TRAINING

From 1994 to 1997 **PhD in Structural Engineering** EQF: 8
 University of Rome "La Sapienza"

- Tutor: Prof. Vincenzo Ciampi:
- Title: Controventi dissipativi per la protezione sismica delle strutture: indagine teorico sperimentale sugli effetti della dissipazione isteretica e viscosa
- Topic: Seismic Engineering
 Passive Control of Structures
 Dissipative Bracings
 Numerical and Experimental activity

From 1985 to 1992 **Master (Laurea Degree) in Civil Engineering** EQF: 7
 University of Rome "La Sapienza"

- Tutor: Prof. Vincenzo Ciampi
- Title: Progetto di controventi dissipative per la protezione sismica delle strutture
- Topic: Structural and Geotechnical engineering

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C1	C1	C1	C2
German	B1	B1	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Fabrizio Paolacci

Excellent verbal and written communication skills both in an office environment and with external Stakeholders.
Experienced at giving presentations to large audiences.

Organisational / managerial skills

- Leadership (currently responsible for a team of 5 people)
- Project Management (PI of European Research Projects)

Job-related skills

- Reliability Methods
- Vulnerability and Risk assessment of structures and infrastructures
- Seismic response evaluation of civil and industrial structures and infrastructures
- Innovative solutions for the seismic protection of civil buildings and industrial plant components

Other skills

- Wide experience in Important Italian and European Structure/Seismic Laboratories (JRC - ELSA Laboratory, Shake Tables of ENEA/La Casaccia ENEA Rome, Shake Table of ISMES, Bergamo, Roma Tre Laboratory of Materials and Structures, Rome)

Driving licence

- Driving License
- Italian licence type B

ADDITIONAL INFORMATION

Most relevant International Journal publications

- M. De Angelis, R. Giannini, F. Paolacci, (2010), Experimental investigation on the seismic response of a steel liquid storage tank equipped with floating roof by shaking table tests, *Earthquake Engineering & Structural Dynamics*, 39: 377–396. DOI: 10.1002/eqe.945
- Alessandri, S., Giannini, R. and Paolacci, F. (2013), Aftershock risk assessment and the decision to open traffic on bridges. *Earthquake Engng. Struct. Dyn.*, 42: 2255–2275. DOI: 10.1002/eqe.2324
- R. Giannini, L. Sgueri, F. Paolacci, S. Alessandri (2014), A rational method for the evaluation of the concrete strength combining direct compression test and non-destructive testing results, *Engineering Structures*, Volume 64:1, 68-77, DOI 10.1016/j.engstruct.2014.01.036
- Bursi O. S., Reza M.S., Abbiati G., Paolacci F., (2015), "Performance-based Earthquake Evaluation of a Full-Scale Petrochemical Piping System," *Journal of Loss Prevention in the Process Industries*, 33 (2015) 10-22, DOI:10.1016/j.jlp.2014.11.004
- Abbiati G., Bursi O. S., Caperan P., Di Sarno L., Molina F.J, Paolacci F., Pegon P., (2015), "Hybrid simulations of a multi-span rc viaduct with plain bars and sliding bearings," *Earthquake Engineering and Structural Dynamics*, DOI: 10.1002/eqe.2580

- Alessandri S., Giannini R., Paolacci F., Malena M., (2015), Seismic retrofitting of a HV circuit breaker through base isolation with steel cable dampers. Part 1: Preliminary tests and analyses, *Engineering Structures*, Volume 98, 1 September 2015, Pages 251-262, DOI: 10.1016/j.engstruct.2015.03.032
- Alessandri S., Giannini R., Paolacci F., Amoretti M., Freddo A., (2015), Seismic retrofitting of a HV circuit breaker through base isolation with steel cable dampers. Part 2: Shaking table tests validation, *Engineering Structures*, Volume 98, 1 September 2015, Pages 263-274, DOI: 10.1016/j.engstruct.2015.03.031
- Phan H.N., Paolacci F., Corritore D., Uckan E., Akbas B., Shen J.J., (2016) Seismic vulnerability mitigation of liquified gas tanks using concave sliding bearings, *Bulletin of Earthquake Engineering* Volume 14, Issue 11, pp 3283–3299, DOI:10.1007/s10518-016-9939-y
- De Risi R., Di Sarno L., Paolacci (2017) Probabilistic Seismic Performance Assessment of an Existing RC bridge Designed for Gravity Loads Only, *Engineering Structures*, Volume 145, 15 August 2017, Pages 348-367, DOI 10.1016/j.engstruct.2017.04.053
- Alessandri et al, (2018) Probabilistic Risk Analysis of Process plants under Seismic loading based on Monte Carlo Simulations, *Journal of Loss Prevention in the process Industries*, Vol 53 – pp. 136-148, DOI: 10.1016/j.jlp.2017.12.013
- Abbiati G., Cazzador E., Alessandri S., Bursi O.S., Paolacci F., De Santis S., (2018), Experimental characterization and component-based modeling of deck-to-pier connections for composite bridges, submitted to *Journal of Constructional Steel Research*, Vol. 50, pag. 31-50, DOI: 10.1016/j.jcsr.2018.08.005
- Phan H.N., Paolacci F., Alessandri S., (2019), Enhanced seismic fragility analysis of unanchored steel storage tanks accounting for uncertain modeling parameters, submitted to *Journal of Pressure Vessel and Technology*. Volume 141 | Issue 1, DOI: 10.1115/1.4039635
- Caputo A. C., Paolacci F., Bursi O.S., Giannini R., (2019), Problems and perspectives in seismic QRA of chemical process plants for decision making, submitted to *Journal of Pressure Vessel and Technology*. Volume 141 | Issue 1, DOI: 10.1115/1.4040804.
- Kalemi B., Caputo A., Corritore D., Paolacci F., (2020), Computing Resilience Of Process Plants Under Na-Tech Events: Methodology And Application To Seismic Loading Scenarios, *Reliability Engineering and Structural Safety*, Volume 195, March 2020, DOI: 10.1016/j.res.2019.106685
- Giannini R., Paolacci F., Phan H.N., Corritore D., Quinci G. (2022), A novel framework for seismic risk assessment of structures, *Earthquake Engineering and Structural Dynamics*, 51(14), 3416-3433, DOI:10.1002/eqe.3729

Research Projects

MLAZIO (2021-2023): Integrated methodology for the static and seismic risk assessment, management and mitigation of bridges and viaducts belonging to the Lazio Region, Italy.

Budget: 946.000€ - Role: PI of the project

FIRST-WIRE (2020-2022) (Fiber Reinforced STEel WIRES for high performance lightweight ropes and cables operating in demanding scenarios) EU RFCS project– Coordinated by Andrea Meleddu (ASTARTE), Redaelli Tecna S.p.a., NTUA), Università Degli Studi Di Padova, Universitaet Stuttgart, Roma Tre University, Kme Germany Gmbh & Co Kg, Ihc Mti Bv:

Budget: 114.000€ - Role: Coordinator of Research Unit

Call4Ideas (2019-2020) Redazione di un protocollo pilota per la prevenzione e mitigazione dei rischi ambientali e l'attivazione di interventi sostenibili, applicabile ai centri urbani delle aree interne del Lazio. Implementazione in Ambiente GIS di una procedura di valutazione multirischio per la gestione e mitigazione del rischio sismico di centri storici del Lazio. Project Financed by Roma Tre University and Regione Lazio.

Budget € 40.000, Role: Coordinator of Research Unit

SPIF (2019-2020) (Seismic performance of multi-component systems in special risk industrial facilities) – Funded within the EU project SERA – Coordinated by Christoph Butenweg (Aachen University, CWE), Oreste S. Bursi (University of Trento), Michalis Fragiadakis (NTUA), Johan Distl (Maurer), Marko Mirinkovic (University of Belgrade), Fabrizio Paolacci (Roma Tre University), Philip Renaults (Swiss Nuclear), Shirley Dyke (Purdue University), Max Gundel (Wofel):

Role: Coordinator of the Research Unit

MSMART (2016-2018) - (Mitigazione del rischio sismico di impianti di processo con l'ausilio di sistemi Smart)– INAIL.

Budget € 75.000, Role: PI of the project

<http://www.inail.it>

H2020-MSCA-ITN-(2016-2020) – XP-Resilience: Extreme Loading Analysis Of Petrochemical Plants And Design Of Metamaterial-Based Shields For Enhanced Resilience. XP-RESILIENCE aims at offering innovative research training ground as well as attractive career development and knowledge exchange opportunities for Early Stage Researchers (ESRs) through cross-border and cross-sector mobility for future growth in Europe.

Budget: € 3.339.811,98. Role: Coordinator of Research Unit

European Project Induse-2-Safety (2014-2017) (component fragility evaluation and seismic safety assessment of "special risk petrochemical plants under design basis and beyond design basis accidents, Grant No: RFS-PR-13056) – Coordinated by Prof. Oreste S. Bursi of the University of Trento. INDUSE-2-SAFETY aims at developing a quantitative risk assessment methodology for seismic loss prevention of "special risk" petrochemical plants and components.

Budget: € 1.702.767,00- Role: Coordinator of Research Unit

<http://www.induse2safety.unitn.it>

Reluis Project – RS7 - Special Systems (2016). The project, devoted to the seismic analysis of special systems, includes a task coordinated by the Unit Roma Tre, which has the ambitious objective to write guidelines for the design and the assessment of the most common industrial components (tanks, furnaces, piping systems, service frames, etc..) and to individuate their criticisms. Experimental test will be also conducted on flanged joints of piping systems.

Budget: € 13.600. Role: Coordinator of Research Unit

www.reluis.it

Reluis Project – RS7 - Special Systems (2015). The project, devoted to the seismic analysis of special systems, includes a task coordinated by the Unit Roma Tre, which has the ambitious objective to write guidelines for the design and the assessment of the most common industrial components (tanks, furnaces, piping systems, service frames, etc..) and to individuate their criticisms. Experimental test will be also conducted on flanged joints of piping systems.

Budget: € 13.600. Role: Coordinator of Research Unit,

www.reluis.it

Reluis Project – RS7 - Special Systems (2014). The project, devoted to the seismic analysis of special systems, includes a task coordinated by the Unit Roma Tre, which has the ambitious objective to write guidelines for the design and the assessment of the most common industrial components (tanks, furnaces, piping systems, service frames, etc..) and to individuate their criticisms. Experimental test will be also conducted on flanged joints of piping systems.

Budget: € 50.000. Role: Participant

www.reluis.it

SEQBRI Project 2012-2015 (Performance-Based Earthquake Engineering analysis of short-medium span steel-concrete composite bridges, Grant Agreement: RFCS-CT-2012-00032). SEQBRI project aims at applying the PBEE methodology to these bridges with S355M/N-S460M/N fine grain steels, to provide the foundation for a new generation of European seismic codes and to extend EN1998-1 and EN1998-2. The research team is an international consortium of 6 partners: University Roma Tre, University of Trento, University of Aachen (RWTH), Service d'Etudes Techniques des Routes et Autoroutes (Setra), ArcelorMittal Research and Development Esch, S.Sathopoulos - K. Farros Consulting Engineers S.A. **Total**

Budget € 1.401.939, Role: PI of the project

www.seqbri.it

Transnational Access project RETRO' (2010-2012) (SERIES Transnational Access User Agreement N° 31724), funded within the European project SERIES (7° Framework) for the execution of pseudodynamic tests on an old R.C viaduct with frame piers, whose execution is planned for the end of 2012 in the European Laboratory for the Seismic Assessment of structures. The project,

coordinated by the writer, includes an International team of researchers coming from Politecnico di Torino (prof. R. Ceravolo), University of Patras – Greece (prof. N. Makris), University of Bogazici – Turkey (prof. M. Erdik), Università del Sannio (prof. L. Di Sarno), Alga Spa Milan (Dr. A. Marioni).

Budget € 430.000, Role: PI of the project

<http://www.series.upatras.gr/RETRO>

Reluis Project Thrust 2 – Special Systems (2010-2012). The project, devoted to the seismic analysis of special systems, includes a task coordinated by the Unit Roma Tre, which has the ambitious objective to write guidelines for the design and the assessment of the most common industrial components (tanks, furnaces, piping systems, service frames, etc..) and to individuate their criticisms. Experimental test will be also conducted on flanged joints of piping systems.

Budget: € 50.000. Role: member of research unit,

www.reluis.it

European Project INDUSE (2009-2012). (Structural safety of industrial steel tanks, pressure vessels and piping systems under seismic loading – RFCS project) – coordinated by prof. Spyros Karamanos of the University of Thessaly (Greece). The activity of the writer concerns the assessment of seismic behaviour of piping systems by numerical and experimental activities in collaboration with Prof. Oreste Bursi of the University of Trento (Italy).

research fellow (2010, 2011).

http://www.mie.uth.gr/induse/Site/Home_2.html

PRIN 2007-2009 Fragility curves of damaged bridges. The research aims at providing a tool, suitable in "real time" as well, which allows to undertake rational and objective decisions about the transitability of seismically damaged viaducts. The evaluation criteria is based on the risk that an aftershock occurs after a mainshock, causing the exceeding of the maximum strength of the damaged bridge. The writer was member of the Roma Tre unit.

Budget € 44.000, Role: member of research unit

<http://cercauniversita.cineca.it/php5/prin/cerca.php?codice=2007JHK33Y>

Reluis Project 2005-2008 (Rete dei Laboratori di Ingegneria sismica) – Thrust 3 – Existing bridges. One of the objectives of the project was to evaluate the cyclic behaviour of old bridge piers. For this reason several imposed displacement tests were conducted in the laboratory of the Department of Structures of University Roma Tre in order to study the cyclic behaviour of R.C. frame piers with plain steel bars and to calibrate a reliable non-linear model able to accurately describe its behaviour. The team, coordinated by prof. P.E. Pinto was composed by 7 units (Torino, Pavia, Genova, Chieti, Roma la Sapienza, Roma Tre, Cosenza). The writer was member of the Roma Tre unit.


Budget € 120.000, Role: member of research unit,

<http://www.reluis.it>

Study of isolation systems for the seismic protection of Major-Hazard industrial plants and components placed on high seismic hazard zones. Analysis of base isolation systems for the seismic protection of tanks, design and execution of shaking-table tests on a reduced scale steel storage tank. The activities carried out during 2004-2006 have been funded by ISPESL-DIPIA. The experimental tests has been performed at the Laboratory of the Research Center ENEA/Casaccia at Rome.

Budget: € 200.000, Role: member of research unit

Other Research Activities



Guest Editor of the Special Issue: *NATECH RISK ASSESSMENT OF HAZARDOUS FACILITIES IN THE FRAMEWORK OF PERFORMANCE BASED EARTHQUAKE ENGINEERING* for the Bulletin of earthquake Engineering, Springer, 2023

Chair of the International Workshop on Problems and Perspectives in Na-Tech Risk Assessment of Industrial installations and mitigations strategies for enhanced resilience, 9-13 Sept. 2019, Rome Against natural threats and mitigation strategies, Prague, 19-20 July. 2018

Chair of the 1st International Workshop on Risk and Resilience of Industrial installations Against natural threats and mitigation strategies, Prague, 19-20 July. 2018

Guest Editor of the Special Issue: *Na-tech risk assessment methodologies and mitigation solutions in the process industries* for the Journal of Pressure Vessels and Technology of ASME

Technical Tutorial titled: *Assessment/Design of Petrochemical Piping Systems and Components Located in Earthquake-Prone Zones*, offered at the ASME PVP 2015 conference in Boston

Technical Program Representative of Seismic Engineering Technical Committee for the ASME PVP 2016 (Vancouver) and 2017 (Hawaii) conferences

Member of the organizing committee of 2nd World Congress on Petroleum and Refinery, June 1-3, 2017 Osaka, Japan

Topic-Organizer of three special sessions of the ASME PVP 2018 conference (16-20 July, Prague, Czech Rep): SE-2 Seismic Isolation, Damping and Vibration Control, SE-10 Rudy Scavuzzo Student Paper Symposium and Competition BS/MS category, SE-11 Student Paper Competition – PhD Category

Topic-Organizer of three special sessions of the ASME PVP 2017 conference (17-21 July, Waikoloa, Hawaii): SE-3 Damping and Vibration Control, SE-5 Seismic Damage Assessment and Health Monitoring, SE-10 Rudy Scavuzzo Student Paper Symposium and Competition

Topic-Organizer of three special sessions of the ASME PVP 2016 conference (17-21 July, Vancouver, Canada): SE-3 Damping and Vibration Control, SE-5 Seismic Damage Assessment and Health Monitoring, SE-10 Rudy Scavuzzo Student Paper Symposium and Competition.

Topic-Organizer of two special sessions of the ASME PVP 2015 conference in Boston (19-23 July, Boston, USA): SE-4 Damping and Vibration Control, SE-7 Seismic Damage Assessment and Health Monitoring

Topic-Organizer of two special sessions of the ASME PVP 2014 conference at Anaheim (California) (SE3: 3 European Research on Structural Safety of Industrial Facilities, SE10: Risk Assessment of Components and Industrial Facilities).

Member of the scientific committee of the workshop entitled " Applicability of passive control for the seismic protection of industrial plants in collaboration with centro ENEA/La casaccia (Ing. G.Decanio), Department of Structural Engineering and Department of chemical engineering of University of Roma Tre, (Prof. V.Ciampi, Prof. M. de Angelis, Prof. di Cave, Ing. L. Luccone), DIPIA-ISPEL (Ing. M. Mariani, Ing. M. Ciucci) and the Italian company ALGA S.p.a. Milan (Ing. A. Marioni).

Co-Chairman of a special session of the SMAR 2013 conference at Istanbul (Turkey) (Testing techniques for the identification and assessment of complex civil structures).

Chief Engineer at the Laboratory of Materials and Structures of University Roma Tre from 2000 to 2005.

Chief Engineering - Laboratory of Materials and Structures of Roma Tre University from 2011 to 2013

Association and Membership

Associate Editor of the Journal of Pressure Vessel and Technology, ASME

Coordinator of the Working Group 13 – Seismic risk and resilience of industrial facilities – of the European Association of Earthquake Engineering – from June 2019 to now.

Chair of the Seismic Engineering Technical Committee of the American Society of Mechanical Engineering PVP division for the years 2018 – 2019

Member of the Seismic Engineering Technical Committee of the American Society of Mechanical Engineering PVP division since 20 July 2014

Member of the Editorial Board of the Journal "Science & Technologies: Oil and Oil Products Pipeline Transportation" – Transneft - Media

Member of the Editorial Board of the Journal "Advances in Civil Engineering"

Member of the Editorial Board of the Journal "Computational Methods in Structural Engineering", Frontiers in Built Environment.

Member of the Department of Engineering - University Roma Tre,

Member of Doctoral School of Engineering at University Roma Tre

Associate Member of the Italian National Association of Seismic Engineering,

Member of the Italian Association of Pre-stressed Reinforced Concrete.

Member of Assisi International association (Anti-Seismic Systems International Society)

Member of American Association of Mechanical Engineering (ASME)

Member of Seismic Engineering Technical Committee of ASME PVP division

Member of European Association of Earthquake Engineering (EAEE)

Fellowships and Awards

July 2022 Outstanding paper award for the ASME PVP 2022 conference, Las Vegas

Nov 2019 Winner of the Chinese National High-end Foreign Experts Recruitment Plan.

Sept 2018 National Scientific Qualification as Full Professor in Structural Engineering (Abilitazione Scientifica Nazionale - Professore Ordinario)

Sept 2018 Teaching Mobility Fellowship - ERASMUS+ at the National Technical University of Athens - Greece

Fabrizio Paolucci

- June 2018** Award for the outstanding Technical Paper from the ITALIAN CONCRETE DAYS Giornate aicap 2018 Congresso C.T.E. Milan 13 June – Lecco 14, 15 June 2018 titled: Experimental investigation on the seismic behaviour of a new pier-to-deck connection for steel-concrete composite bridges.
- July 2017** Award for the outstanding Technical Paper from the Seismic Engineering Technical Committee at the 2016 ASME PRESSURE VESSELS AND PIPING conference titled: Seismic Quantitative Risk Assessment of Process Plants through Monte Carlo Simulations.
- July 2017** Certificate of Recognition from American Society of Mechanical Engineering for serving as the Technical Program Representative of the Seismic Engineering Technical Committee at the 2017 PVP Conference in Waikoloa (Hawaii)
- Mar 2017** **National Scientific Qualification as Associate Professor in Structural Engineering (Abilitazione Scientifica Nazionale - Professore Associato)**
- July 2016** Certificate of Recognition from American Society of Mechanical Engineering for serving as the Technical Program Representative of the Seismic Engineering Technical Committee at the 2016 PVP Conference in Vancouver (Canada)
- May 2016** - Teaching Fellowship for Rose School – Pavia (Italy) for a Short-Course on Seismic Vulnerability Assessment of Industrial Components for Quantitative Risk Analysis of Process Plants, Pavia, May 2 to May 6, 2016
- Jan 2016** - Teaching Mobility Fellowship - ERASMUS+ at the University of Aachen - Germany
- July 2015** - Nomination by ASME as Technical Program Representative of the Seismic Technical Sessions for the next ASME PVP Conference in Vancouver July 2016 and Hawaii July 2017
- July 2015** - Certificate of Appreciation from American Society of Mechanical Engineering for the Technical Tutorial offered during the 2015 ASME PVP conference in Boston (19-23 July)
- Feb 2015** - Teaching Mobility Fellowship - ERASMUS+ at the University of Ljubljana - Ljubljana Slovenia
- Nov 2013** - Teaching Mobility Fellowship - ERASMUS at Kandilli Observatory - Department of Earthquake Engineering - Bogazici University - Istanbul, Turkey
- Sep 1999** - Fellowship (CNR) at the Department of Civil and Environmental - University of California Berkeley. Fellowship as Visiting Scholar provided by CNR (National Research Council) for a research activity of six months at the Department of Civil and Environmental Engineering of University of California at Berkeley from September 1999 to February 2000, under the scientific guide of Prof. Filip Filippou, In this occasion the writer has worked on modeling of reinforced concrete buildings with relevant torsional-coupling effects and their seismic protection by using dissipative bracings systems.

Professional Activities

- 2022 to date – Consultant for the collapse of the Morandi Bridge, Genova, Italy
- 2022 to date – Consultant for the Consiglio di Stato, Italy
- 2021- to date Technical Director and Business developer of the spin-off SAFEPLANT Srl, Italy
- 2019 - Consultant for TEA Sistemi Spa for the identification of the major-Scenarios in seismic conditions of the Upstream oil&gas Plant “Centro Olio Val d’Agri”, Basilicata, Italy
- 2019-2020 - Consultant for TEA Sistemi Spa for the identification of the mitigation strategies for seismic risk reduction the Upstream oil&gas Plant “Centro Olio Val d’Agri”, Basilicata, Italy
- 2017 – Consultant for the identification of the collapse causes of an Industrial Building in Teramo, Italy
- 2017-2020 - Consultant for ENI Spa concerning the seismic risk assessment of the Upstream Plant “Centro Olio Val d’Agri”, Basilicata, Italy

Teaching Activity and Courses Organization

Roma Tre University

- Courses of “Automatic Calculus” and “Design of structures” (30 e 60 h) within the main course “Laboratorio di Costruzioni dell’Architettura 2”, Faculty of Architecture, University of Roma Tre. (A/A 1998-1999, 1999- 2000-2001);
- Course of “Design of structures” (30 h) within the main course “Laboratory of Construction of the Architecture 2”, Faculty of Architecture, University of Roma TRE, (A/A 1999-2000, 2000-2001)
- Teaching support activity within the Courses of Automatic Calculus and Design of structures (30 e 60 h) within the main course “Laboratory of Construction of the Architecture 2”, Faculty of Architecture, University of Roma Tre, (A/A 2001-2002).
- Course entitled “Structural Engineering” – Module I (40 h) - 2004-2005) and course “Structural Engineering” – Module I and II (70 h) (2005-2008)
- Course of “Design of Structures” – (60 h) - (2008-2009)
- Course of “Advanced Structural Engineering” – (60 h) (2008-2011)

Course of “Prestressed Concrete” – (60 h) - 2011-2019

Course of “Theory and Design of Bridges” – (90 h) - 2013-2020

Course of “Theory and Design of Bridges” – (80 h) - 2021-2023

Teaching support activity to the Master course “Passive protection of Structures – Base isolation within the Master MICA (Master of Innovation and Control of reinforced concrete) - 2005

Course “Basics of earthquake engineering” within the Master MICA (Master of Innovation and control of reinforced concrete) – 2009-2011

Course entitled “Seismic Assessment of existing bridges” within the Master MICA (Master of Innovation and control of reinforced concrete) – 2011-2012

Tutoring of undergraduate and graduate students

Doctorate school in Engineering of Civil and Mechanical Structural Systems – University of Trento (2009-2010)

Course: Design and Testing of structures and bridges in earthquake engineering, offered by Oreste Bursi & Fabrizio Paolacci A/Y 2008/2009, 2009/2010

University of Bogazici, Istanbul (Turkey) (2013)

Fellowship of Teaching Mobility Erasmus program provided by the University Roma Tre for a teaching activity at the University of Bogazici (Istanbul, Turkey). The activity devoted to PhD student regards a series of lessons on seismic analysis of industrial plant. 25-29 November 2013

Eucentre (Pavia), Italy

Assessment of the seismic vulnerability of tanks, Formazione Professionale Continua – ReLUIS/EUCENTRE 2014

Analisi di vulnerabilità sismica negli impianti industriali, Eucentre (Pv), Italy, 29-30 Nov. 2021,

University of Lubljiana, Lubljiana (Slovenia) (2015)

Fellowship of Teaching Mobility Erasmus+ program provided by the University Roma Tre for a teaching activity at the University of Lubljiana (Lubljiana, Slovenia). The activity devoted to PhD student regards a series of lessons on seismic analysis of industrial plant. 02-06 February 2015

University of Aachen, Aachen (Germany) (2016)

Fellowship of Teaching Mobility Erasmus+ program provided by the University Roma Tre for a teaching activity at the University of Aachen (Germany). The activity devoted to PhD student regards a series of lessons on seismic risk analysis of industrial plant. 18-22 January 2016

Rose School, Pavia (Italy) (2016)

Short Course on Seismic Vulnerability Assessment of Industrial Components for Quantitative Risk Analysis of Process Plants, Pavia, May 2 to May 6, 2016

Technical Tutorial (2015) - Assessment/design of petrochemical piping systems located in earthquake-prone zones in the ASME PVP 2015, Boston, Massachusetts

University of Trento, (2017), Course “seismic risk of industrial plants” in the 1st International Summer School on Mechanics and Performance of resilient structures and infrastructures, MECHRES2017

Roma Tre University, (2017), Short course on Computational methods for the seismic assessment of structures Rome, Italy, 18-25 September, 2017, XP-Resilience Project and PhD program in Civil Engineering

Roma Tre University, (2019), Short course on Understanding nonlinear problems in civil and industrial engineering Rome, Italy, 6-10 May, 2019, XP-Resilience Project and PhD program in Civil Engineering

Roma Tre University, (2019), Short Course on scientific, grant writing and presentation skills, Rome, Italy, 17-18 June, 2019, XP-Resilience Project and PhD program in Civil Engineering

Roma Tre University, (2019), Coordination of the Course on Na-tech Risk Assessment of Industrial installations and mitigation strategies, Rome, Italy, 17-18 June, 2019, XP-Resilience Project and PhD program in Civil Engineering

University of Aachen, (2019), Lectures on Risk assessment and risk analysis of industrial facilities, in the M.Sc. Management and Engineering in Structural Engineering and Risk Management of Industrial Facilities. Aachen, Germany, 04 July, 2019



University of Trento, (2020), Course “seismic risk of industrial plants” in the 2nd International Summer School on Mechanics and Performance of resilient structures and infrastructures. MECHRES2020

International Center for Mechanical Science: CISM, Udine, Italy, (2022), Course “NaTech risk: management strategies and resilience towards technological accidents caused by natural events”, Coordinators: Fabrizio Paolacci, Valerio Cozzani, Udine, 5-9 Sept 2022

Supervisor of PhD and Post-Doc Students

Arkam Mohamad (A/Y 2011-2013): Seismic Assessment of As-built and Isolated cases of an Existing RC Bridge through experimental PsD Testing – PhD Student

Daniele Corritore (A/Y 2014-2016): Seismic risk evaluation of Special Risk Industrial plants, PhD Student

Hoang Nam Phan (A/Y 2015-2017): Seismic Vulnerability Assessment of Steel Storage Tanks, PhD Student

Ahmed Mohammad Mohinuddin (A/Y 2016-2018): Seismic Fragility Analysis of industrial piping systems, PhD Student

Giulia Tomasello (AY/2016-2018): Analysis and implications of the shape on the structural behavior, PhD Student

Daniele Corritore (2017-2018): QsRA of process Plants – Post Doc

Silvia Alessandri (2012-2017) - PBEE analysis of SCC bridges – Post Doc

Bledar Kalemi (2017-2020) – Resilience calculation for process plants – MSC PhD Student

Hoang Nam Phan (A/Y 2017-2018): Seismic Vulnerability Assessment of Steel Storage Tanks, Post Doc

Gianluca Quinci (A/Y 2019-2022): An Innovative Framework for seismic risk assessment of major-hazard process plant and equipment based on A.I. Techniques.

Bledar Kalemi (2021-2022) – Resilience calculation for process plants – Post-doc Student

Sourabh Vern (2022-2023) – An innovative steel-CFRP hybrid cable system of cable-stayed bridge – Post-doc Student

Supervisor of Master Thesis

He supervised more than 100 Bachelor and Master thesis from 2005 to date

Conferences and relations

XV Congresso Nazionale Associazione Italiana di Meccanica Teorica ed Applicata, Settembre, Taormina, 26-29 September 2001

7th International Seminar on Seismic Isolation, Passive Energy Dissipation and Active Control of Vibrations of Structures, Assisi, Italy, October 2-5, 2001.

Fifth World Conference on Joints, Bearings and Seismic Systems for Concrete Structures, Rome, 7-11 October, 2001

Third World Conference on Structural Control. 7-12 Aprile, 2002, Como, Italy.

Fifth European Conf. On Structural Dynamics, Sept. 2-5 2002, Munich. Memoria: F.Paolacci

Convegno Nazionale Valutazione E Gestione del Rischio negli Impianti Industriali, 15-17 Ottobre 2002, Pisa. Memoria:

XVI Congresso Nazionale Associazione Italiana di Meccanica Teorica ed Applicata, Settembre, Ferrara, 9-12 Settembre, 2003.

8th World Seminar on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structure, Yerevan, Armenia, October 6-10, 2003.

XI Congresso Nazionale L'Ingegneria Sismica in Italia, ANIDIS, Gennaio, Genova, 25-29 Gennaio, 2004.

Giornate AICAP 2004, 26-29 Maggio, Verona.

9th International Conference on Structural Safety and Reliability Rome, 19-24 June 2005.

2nd International fib Congress, 5-8 June 2006 - Naples

Convegno Nazionale: Sperimentazione su materiali e strutture. Venezia, 6-7 Dicembre, 2006.

XII Congresso L'Ingegneria Sismica in Italia, ANIDIS, Giugno, Pisa, 10-14 Giugno, 2007.

Giornate AICAP 07, Salerno, 4-6 Ottobre, 2007.

International Conference on Experimental Vibration Analysis of Civil Engineering Structures,



EVACES07, Porto, 23-26 October, 2007, Portugal.
 14th World Congress on Earthquake Engineering, Beijing, 12-17 October, 2008, China.
 XIII Congresso L'Ingegneria Sismica in Italia, ANIDIS, Giugno, Bologna, 28 Giugno-2 Luglio, 2009.
 11WCSI, November 17-21, 2009, Guangzhou, China,
 14th European Conference on Earthquake Engineering, Skopje.
 COMPDYN 2011 -III ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Corfu, Greece, 26–28 May 2011.
 SERIES Concluding Workshop - Joint with US-NEES "Earthquake Engineering Research Infrastructures" - Ispra, May 28-30, 2013, In memory of Prof. Roy Severn.
 Pressure Vessels & Piping Division Conference PVP 2013, July 14-18, 2013, Paris, France.
 2nd Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2013, 9-11 Sept. ORGANIZER e CHAIRMAN of the session: testing techniques for the identification and assessment of complex structures
 ASME 2014 Pressure Vessels & Piping Conference PVP2014, July 20-24, 2014, Anaheim, California, USA.
 Second European Conference on Earthquake Engineering and Seismology (2ECEES), Istanbul, Turkey, August 25-29 September 2014.
Invited Speaker (keynote lecture) at COUPLED PROBLEMS 2015 - 6 th International Conference on Coupled Problems in Science and Engineering, 18-20 May 2005
 ASME 2016 Pressure Vessels & Piping Conference PVP2016, July 17-21, 2016, Vancouver, Canada.
Invited Speaker (keynote lecture) to the Collaborative Conference on Earthquake Science and Engineering 2016 -
 September 4-8 - Budapest, Hungary.
Invited Speaker (keynote lecture) to the 2nd World conference of Petroleum and Refinery, Osaka, Japan, 01-03 June 2017.
 Invited speaker for the seminar " Probabilistic Risk Assessment of Petrochemical Plants under Seismic Loading " to the Tottori University, 05 June 2017
Invited Speaker to the **Pacific Earthquake Engineering Research Center at UC - Berkeley, CA, USA**, with the intervention: Probabilistic Risk Assessment of Petrochemical Plants under Seismic Loading.
 ASME 2017 Pressure Vessels & Piping Conference PVP2017, July 17-21, 2017, Waikoloa, Hawaii USA.
 ASME 2018 Pressure Vessels & Piping Conference PVP2018, July 15-20, 2018, Prague, Czech Rep.
 16th European Conference on Earthquake Engineering, Thessaloniki, Greece, 18-21 June 2018
 Chairman del 1st International Workshop on Risk and Resilience of Industrial installations against natural threats and mitigation strategies, Prague, Czech Republic, 19-20 July, 2018
 ASME 2019 Pressure Vessels & Piping Conference PVP2019, July 14-20, 2019, San Antonio, Texas (USA)
Invited Speaker to 17th World Conference on Earthquake Engineering, 13-18 2020, September, Sendai, Japan.
 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, 28-30 June 2021, COMPDYN 2021, Streamed from Athens, Greece
Invited Speaker to 6th International Conference on Earthquake Engineering and Seismology (6ICEES), Gebze, Turkey between October 13th-15th, 2021



Indexing and Citations
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