

# Stefano De Santis

BEng, MScEng, PhD, CEng

## Curriculum Vitae



### OVERVIEW AND CURRENT POSITION

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Stefano De Santis is a researcher (RTD/A) in Structural Engineering at the Department of Engineering of Roma Tre University, in Rome, Italy. He is a member of the Structures Research Group and appointed teacher for the Course of Design of Steel and Reinforced Concrete Structures. Before getting his current position, he was a post-doc research assistant at the University of the West of England (UWE) at Bristol, UK and at the Department of Structures of Roma Tre University, where he got his BSc, MSc and PhD in Civil Engineering.

Stefano's scientific interests and expertise include laboratory and field testing of traditional and innovative materials and of full-scale structural members (both unreinforced and reinforced) under static and dynamic/seismic loading, rehabilitation and strengthening of structures with sustainable composites, seismic assessment of masonry buildings, arch bridges and historic constructions including those belonging to cultural/architectural heritage, analytical/numerical modelling, development of testing methods and acceptance criteria for composite materials, innovative full-field contactless measurement techniques for laboratory testing, structural health monitoring and condition assessment of structures.

On these topics, Stefano coordinated scientific activities involving research and industrial partners and is author of more than 60 scientific publications including papers in International Journals, conference proceedings, and a book on masonry arch bridges based on his PhD Thesis, which was awarded a Special Mention at the Edoardo Benvenuto Award (10th edition, 2012). He presented his works in national and international conferences and has been invited to give lectures and seminars. Stefano is review editor for *Frontiers in Materials International Journal* and member of the scientific committee of International Conferences. He has been supervisor of more than 30 PhD and MSc Theses.

In February 2017, Stefano spent a period as a Visiting Researcher at the Department of Civil and Structural Engineering of the University of Sheffield, with a Short Term Scientific Mission grant awarded by the Cost Action TU1207. In October 2016, Stefano has been a visiting researcher at the University of Miami, USA, within the Science and Technology Cooperation Project "Composites with inorganic matrix for sustainable strengthening of architectural heritage".

Stefano is (or has recently been) involved in International Research Projects and is member of Technical Committees, including the RILEM TC 250-CSM, the RILEM TC 223-MS, the ASTM D30 Committee, the COST Action TU1207, and the UIC Research Group on Masonry Arch Bridges. Stefano is member of standardization boards, including the ACI 549-0L Committee "Design and Construction of Externally Bonded Fabric Reinforced Cementitious Matrix (FRCM) Systems for Repair and Strengthening Masonry Structures" and the CNR Committee for the development of design recommendations for externally bonded reinforcements with FRCM composites (Gruppo di Studio CNR per la redazione delle Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di sistemi di rinforzo FRCM).

## RESEARCH ACTIVITIES AND EXPERTISE, LINKS WITH RILEM

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Most of Stefano's studies are, or have been, devoted to the development of innovative and sustainable materials for the rehabilitation of historic structures and architectural heritage in earthquake prone areas, of reliable testing procedures and acceptance criteria for composite strengthening systems, also with the help of innovative measurement and monitoring techniques, of effective methods for the assessment of existing structures and their reinforcement with externally bonded composites. His research aims at contributing to the advancement of knowledge as well as to its transfer to industry and engineering practice, for a direct exploitation of scientific outcomes. Within such approach, Stefano gained experience and highly contributed to the activities of his research groups in the following specific topics:

### *Characterization and acceptance of composite materials for the reinforcement of structures*

Stefano coordinates the experimental activities within his research group on composite materials, some of which are performed within research agreements with industrial partners and/or other scientific institutions. He performed numerous investigations on the mechanical properties, durability and composite-to-substrate shear bond performance of strengthening systems with both organic (fibre/steel reinforced polymer, FRP/SRP) [1-4] and inorganic (textile reinforced mortar/ steel reinforced grout, TRM/SRG) [5-8] matrices. Stefano originally contributed to many of the first publications on these issues, which have then been taken as a reference, and cited, by several other researchers. More recently, Stefano contributed to the coordination and management of a Round Robin Test (RRT) initiative within the Rilem TC 250-CSM. The RRT was devoted to investigate the tensile and bond behaviour of mortar-based composites with aramid, carbon, basalt, glass, PBO and steel textiles, embedded into cement, lime and geopolymers mortars, and involved 20 European institutions and 11 industrial partners. Stefano developed most of the work related to design of testing setup and TRM application, instrumentation and test execution, processing and interpretation of test data [9-11]. As a further outcome of the RRT and of the other studies carried out on this topics, Stefano contributed to the development of test methods for the mechanical characterization of TRM composites [12], of acceptance procedures [13-14], and of the Recommendation of Rilem TC 250-CSM "Test method for Textile Reinforced Mortar to substrate bond characterization" (submitted to Materials and Structures). Within the ASTM D30 Committee, Stefano is contributing to the development of a standard method for performing shear bond tests on composite materials. Finally, Stefano carried out a wide study on the bond behaviour of SRG composites on curved substrates for the reinforcement of masonry vaults, which included both laboratory and field tests [8].

### *Static and dynamic tests of full-scale structures reinforced with composites*

Stefano carried out a wide experimental research on full-scale vault specimens, strengthened with different TRM composites, to investigate the improvement in load-carrying and deflection capacity provided by innovative and sustainable strengthening systems, taking into account the contribution of buttresses and backfill. Stefano coordinated this activity by designing the experimental setup, performing the tests and processing test data [15]. Stefano carried out three shake table test sessions in the last 3 years on full-scale masonry walls or structural subassemblies to study their out-of-plane behaviour as well as the effectiveness of different strengthening solutions, ranging from traditional tie-bars to innovative mortar-based composites [16]. The most recent studies (not yet published) were devoted to the investigation of the vertical bending seismic response of rubble stone masonry and tuff masonry walls, reinforced with SRG or basalt TRM, and to the analysis of the influence of openings and roof on masonry structures before and after the application of composite reinforced mortars comprising GFRP meshes and lime mortar. In these shake table test studies, Stefano took care of the design of testing setup and instrumentation, definition of seismic inputs, design of the reinforcement with SRG/TRM, test execution, and data processing. Both the full-scale static tests on masonry vaults and the seismic tests were carried out within research agreements with industrial partners.

### *Assessment and design methods for the rehabilitation and seismic retrofitting of architectural heritage*

Stefano worked on experimental and numerical methods for the seismic assessment of masonry structures [17], with particular reference to the analysis of local collapse mechanisms such as the out-of-plane overturning of walls and the seismic performance of masonry vaults, also taking advantage of the expertise gained during post-earthquake assessment of existing buildings [18]. The research is devoted also to the development of assessment procedures and analytical/numerical modelling tools, suitable for both research and engineering practice purposes, for the protection of historic structures, monuments and architectural heritage in earthquake prone areas, in compliance with the principles of conservation and restoration. Stefano is currently involved in research projects (e.g., Science and Technology Cooperation Project titled "Composites with inorganic matrix for sustainable strengthening of architectural heritage") and standardization committees (e.g., ACI 549 - Rilem TC 250 OL Liaison Subcommittee, Gruppo di Studio CNR) for the development of design guidelines for the construction of externally bonded mortar-based composites for repair and strengthening masonry structures.

### *Innovative measurement/monitoring techniques for laboratory tests and structural health monitoring*

Stefano' expertise includes the development of innovative contactless methods for displacement/strain measurement, such as the Digital Image Correlation techniques for quasi-static laboratory tests on both small-scale specimens [19] and full-scale mock-ups [15], and the 3DVision motion capture system for shake table tests [20]. Stefano also worked on the application of the Acoustic Emission (AE) monitoring technique. AE was applied to small-scale laboratory tests on masonry specimens subjected to compression and shear under quasi-static and long-term fatigue loading [21], as well as in the field on a masonry arch bridge to identify its response to traffic loading, its structural condition and the effectiveness of repair works [22].

### *Mechanical behaviour of masonry, modelling of masonry structures and seismic performance of the building stock*

Stefano carried out an experimental investigation on the compressive behaviour of brick masonry under cyclic compression and bending. Experimental results guided the calibration and validation of uniaxial constitutive relationships, which were then used within a fibre beam based model for the structural analysis of arch structures [23]. As a development of this activity, Stefano carried out a study on the assessment of masonry arch bridges under traffic loads [24] and seismic actions [25]. Stefano developed most of the work related to collection of data of existing bridges, numerical modelling, definition of seismic input, validation with analytical solutions. This research also led to the publication of a wide state-of-the-art review [26]. Within the UIC Research Group "Assessment of Masonry Arch Bridges" Stefano contributed to the development of the UIC leaflet 778-3R "Inspection, assessment and maintenance of masonry arch bridges". Stefano also worked on the modelling of masonry structures under seismic loads with a Distinct Element Method approach [27].

[1] Compos Part B: Eng, 2016;104:87-110.  
[2] Compos Struct 2016;152:499-515.  
[3] Mater Struct, 2016;49(7):2581-2596.  
[4] Mater Struct, 2016;49(7):2563-2580.  
[5] Compos Struct, 2015;134:533-548.  
[6] Compos Part B: Eng, 2015;68:401-413.  
[7] Mater Struct, 2014;47(12):2021-2037.  
[8] Constr Build Mater 2017;150:367-382.  
[9] Compos Part B: Eng, 2017;127:175-195.

[10] Compos Part B: Eng, 2017;128:1-18.  
[11] Compos Part B: Eng, 2017;127:100-120.  
[12] Compos Part B: Eng, 2017;127:121-132.  
[13] Compos Part B: Eng, 2015;78:497-506.  
[14] J Compos Constr, 2018.  
[15] Compos Part B: Eng, 2018; 41:20-36.  
[16] Earthq Eng Struct Dyn, 2016;45(2):229-251.  
[17] Int J Archit Herit, 2017;11(1):143-160.  
[18] Bollett Geof Teor Appl. DOI: 10.4430/bgta0192.

[19] Compos Struct, 2017;160:670-688.  
[20] Earthq Struct, 2016;10(1):53-71.  
[21] Masonry Int, 2013;26(2):41-48.  
[22] NDT & E Int, 2013;55:64-74.  
[23] Int J Archit Herit, 2010;4(2):115-137.  
[24] Int J Archit Herit, 2014;8(3):452-474.  
[25] Earthq Eng Struct Dyn, 2014;43(11):1661-1681.  
[26] Struct Infrastruct Eng, 2016;12(11):1439-1464.  
[27] SAHC'18, Meriggi et al.

*The full list of scientific publications is provided at the end of the CV.*

## **COMMITTEES, PROJECTS, COLLABORATIONS, TEACHING**

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### ***Activity as editor and reviewer, participation to Scientific Committees of International Conferences***

Stefano is member of the Editorial Board as a Review Editor for Frontiers in Materials International Journal, Structural Materials and Built Environment sections.

Stefano regularly contributes as a reviewer to the following Journals: Materials and Structures, Construction and Building Materials, Composite Structures, Composite Part B: Engineering, International Journal of Architectural Heritage, Proceedings of the ICE (Institution of Civil Engineers): Bridge Engineering, Fibers, Engineering Structures, Case Studies in Construction Materials.

Stefano is, or has been, member of the Scientific Committees of the following international conferences:

- SAHC2018 11th International Conference on Structural Analysis of Historical Constructions. Cusco, Peru, 11-13/09/2018
- Baltic Conference Series
- EMAHP2016 Engineering and Medical Aspects of the Humans Protections against Environmental Influences. Cracow, Poland, 16-18/11/2016

### ***Participation to scientific and/or institutional Technical Committees***

Stefano is, or has been, involved in the activities of the following Technical Committees:

- Rilem TC 223-MSC Masonry Strengthening with Composites (2008-2012) and Rilem TC 250-CSM Composites for the Sustainable Strengthening of Masonry (2012-present) (Rilem member since 2017).
- CNR (National Research Council) Standardization Committee for the development of design recommendations for externally bonded reinforcements with FRCC composites (Gruppo di Studio CNR per la redazione delle Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di sistemi di rinforzo FRCC) (2017-present)
- ACI 549 - Rilem TC 250 0L Liaison Subcommittee Design and Construction of Externally Bonded Textile Reinforced Mortar (TRM) and Steel Reinforced Grout (SRG) Systems for Repair and Strengthening Masonry Structures (2016-present).

- ASTM International Committee D30 on Composite Materials - Subcommittee D30.10 on Composites for Civil Structures (2017-present).
- Committee of the Board of Engineering of Rome “Engineering applied to architectural and archaeological heritage” (2017-present)
- Committee of the Board of Engineering of Rome “Composite and innovative materials” (2013-2016)
- UIC International Railways Union AMAB RG Assessment of Masonry Arch Bridges (2011-2014).

### **Research projects**

The research activity includes the involvement in several research projects:

- Short Term Scientific Mission “Best practice and key challenges in bond tests on composite reinforcements” with a grant awarded by the Cost Action TU1207 Next generation guidelines for composites in constructions (Grant N. COST-STSM-ECOST-STSM-TU1207-130217-082433).
- ITALY – USA SCIENCE AND TECHNOLOGY COOPERATION 2016-2018 Composites with inorganic matrix for sustainable strengthening of architectural heritage (Topic: Technologies Applied to Cultural and Natural Heritage) (Grant ID PGR00234).
- SMART ENVironments Integrated methodologies for Seismic Assessment of Cultural Heritage and Sustainable retrofitting strategies.
- ReLUIS 2014-2018 Line 1: Masonry constructions. Line 6: innovative materials for the seismic retrofitting of existing structures.
- COST Action TU1207 2013-2017: Next Generation Design Guidelines for Composites in Construction.
- PRIN 2011-2013: Methodologies for analysis and modelling of multi-leaf masonry walls for the conservation of historic built heritage.
- UIC 2011-2013: Assessment of masonry arch bridges.
- ReLUIS 2010-2013 Line 1: Tools for the assessment and management of the seismic risk of the built heritage.
- EPSRC 2007-2011: Fatigue behaviour and remaining service life of masonry arch bridges.
- ReLUIS 2005-2008 Line 1: Safety assessment and vulnerability reduction of masonry buildings - Line 3: Safety assessment and vulnerability reduction of existing bridges.
- CNR 2008: Guidelines for the structural analysis and the strengthening of masonry bridges.
- PRIN 2003-2005: Safety, conservation and management of masonry bridges.

### **Invited lectures**

Stefano has been invited to give the following lectures and seminars:

- Invited speaker for the seminars “Experimental characterization of Textile Reinforced Mortars” and “Retrofitting historic structures with Textile Reinforced Mortars” at the University of Sheffield, Sheffield, UK (16-23/02/2017).
- Invited speaker at the meeting of the Edoardo Benvenuto awards. Department of Architecture and Design of the University of Genoa, Italy (22/03/2017)
- Invited speaker at the COST Action TU1207 – Rilem TC 250-CSM Joint Workshop “Textile Reinforced Mortars for the Strengthening of Masonry Structures”. Title: “Out-of-plane strengthening of masonry walls with mortar-based composites” University of Salento, Lecce, Italy (21/05/2015).
- Invited lecturer at the International Masterclass on Masonry Arch Bridge Assessment. Title of the lecture “Structural analysis and assessment of masonry arch bridges. Italian experience in research and practice” University of the West of England, Bristol, UK (24-25/05/2012).

### **Presentations at national and international conferences**

Stefano presented his work at the following conferences:

- MuRiCo5 5th International Conference on mechanics of masonry structures strengthened with composite materials. Bologna, Italy, 28-30 June 2017.
- SAHC’16 10th International Conference on Structural Analysis of Historic Constructions. Leuven, Belgium, 13-16 September 2016.
- 16IB2MAC 16th International Brick&Block Masonry Conference. Padova, Italy, 26-30 June 2016.
- ACE 2015 2nd International Symposium on Advances in Civil Engineering. Vietri sul Mare, Italy, 12-13 June 2015.
- MuRiCo4 4th International Conference on mechanics of masonry structures strengthened with composite materials. Ravenna, Italy, 9-11 September 2014
- PROHITECH’14 2nd International Conference on Protection of Historical Constructions. Antalya, Turkey, 7-9 May 2014.
- ARCH’13 7th International Conference on Arch Bridge. Split, Croatia, 2-4 October 2013.
- WCEE’12 15th World Conference on Earthquake Engineering. Lisbon, Portugal, 24-28 September 2013.

- XIV Convegno di Ingegneria Sismica ANIDIS 2011. Bari, Italy, 18-22 September 2011.
- ARCH'10 6th International Conference on Arch Bridges. Fuzhou, China, 11-13 October 2010.
- Convegno WonderMasonry 2009. Ischia, Italy, 8-10 October 2009.
- XIII Convegno di Ingegneria Sismica ANIDIS 2009. Bologna, Italy, 28 June-2 July 2009
- HMC'08 Historical Mortar Conference. Lisbon, Portugal, 24-26 September 2008.

### ***Major collaborations***

Stefano's research activity includes the following collaborations:

- Prof. Antonio Nanni, University of Miami, Miami, US  
Collaboration on acceptance of Textile Reinforced Mortar (TRM) composites and on design criteria for repair and strengthening existing structures with TRMs
- Prof. Arkadiusz Kwiecien, Cracow University of Technology, Cracow, Poland  
Collaboration on Digital Image Correlation and on composite materials with highly deformable matrices
- Prof. Maurizio Guadagnini, University of Sheffield, Sheffield, UK  
Collaboration on composite materials with natural fibres and on multi-ply steel reinforcements
- Prof. Jose Vieira de Lemos, LNEC, Lisbon, Portugal
- Collaboration on the modelling of masonry vaults reinforced with TRM using distinct elements
- ENEA, Italian Agency for New Technologies and Sustainable Development, Italy  
Collaboration for shake table tests on full-scale structures, unconventional optical monitoring systems (3DVision)
- Prof. Thanasis Triantafyllou, prof. Corina Papanicolaou  
Collaboration on test methods for the characterization of composite materials
- Dr. Adrienn Tomor, University of the West of England, Bristol, UK  
Mistras NDT Products & Systems, Inc. (Cardiff, UK)  
Collaboration on Acoustic Emission technique and structural health monitoring
- Cooperation with industrial partners (FibreNet srl, G&P Intech srl, Kerakoll SpA, Ruredil SpA) for the development, testing and qualification of composite materials and reinforcement solutions. These activities led to the publication of scientific papers and to the achievement of formal technical qualification certificate for FRP and SRP systems.
- Cooperation with Italian Civil Protection and Italian National Fire Corps for post-earthquake emergency activities related to structural assessment, survey of damage, and design of securing measures on residential and commercial buildings, churches, architectural heritage and monuments.

### ***Professional activity as practicing engineer***

Stefano works as a practicing engineer and is involved in the design of post-earthquake repair, structural rehabilitation and seismic retrofitting of historic masonry buildings and churches. The most important works include, amongst others, Palazzo Ciolina-Ciampella and San Bernardino cathedral in the city centre of L'Aquila, Italy. These activities included structural and crack pattern survey, field tests during the design and the execution phases, numerical modelling of structural members (e.g., vaults, walls, floors) for seismic assessment, design of strengthening works with traditional and innovative technologies, such as mortar-based externally bonded composite materials.

### ***Teaching activity and supervision of PhD and postgraduate students***

Stefano is currently in charge of the course of Design of Steel and Reinforced Concrete Structures within the BSc course in Civil Engineering at the Department of Engineering of Roma Tre University (Tecnica delle Costruzioni, 72h, 9 CFU, SSD Icar/09).

Stefano has been doing teaching activity since 2005. He has been in charge of exercise lectures within undergraduate and postgraduate courses of Structural Mechanics and Design of Steel and Reinforced Concrete Structures, Rehabilitation of Structures, Design of Bridges, and Earthquake Engineering at the Faculties of Engineering and of Architecture, of Roma Tre University (SSD ICAR/09). The main teaching activities include:

- Teaching assistant, Structural Mechanics and Design of Steel and R.C. Structures (undergraduate course), Faculty of Engineering, Roma Tre University, Rome, Italy (2005-2016)
- Teaching assistant, Earthquake Engineering (postgraduate course) Faculty of Engineering, Roma Tre University, Rome, Italy (2016-2017)
- Teaching assistant, Rehabilitation of Structures (postgraduate course) Faculty of Engineering, Roma Tre University, Rome, Italy (2013-2016)
- Teaching assistant, Design of Bridges (postgraduate course) Faculty of Engineering, Roma Tre University, Rome, Italy (2013-2014)
- Teaching assistant, Design of Steel and R.C. Structures (undergraduate course) Faculty of Architecture, Roma Tre University, Rome, Italy (2012-2013)

Stefano supervised 2 PhD Students (one ongoing and one concluded in the Doctor Europaeus programme, co-supervised by Dr. M. Guadagnini, Univ. of Sheffield, UK) and more than 50 postgraduate students. Since 2013, Stefano is member of the Commission for the Examination for the professional qualification in Engineering.

## PREVIOUS EMPLOYMENTS

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2018-present	Researcher at the Department of Engineering of Roma Tre University (Ricercatore Universitario a tempo determinato ai sensi dell'art. 24, C. 3, lett. A) della legge 240/2010).
2018	Research Contract as Consultant with the Department of Engineering of Roma Tre University "Sviluppo e stesura di linee guida per le applicazioni dei sistemi FRM/TRM nel rinforzo delle strutture esistenti in muratura". (Development of design guidelines for the reinforcement of existing masonry structures with for FRM/TRM systems).
2018	Teaching contract as appointed professor of Design of Steel and Reinforced Concrete Structures within the BSc course in Civil Engineering at the Department of Engineering of Roma Tre University (Tecnica delle Costruzioni, 72h, 9 CFU, SSD Icar/09).
2016-2017	Research assistant at the Department of Engineering, Roma Tre University, within a research project titled "Mortar-based composites for the sustainable strengthening of architectural heritage".
2017	Research Contract as Consultant with the Department of Engineering of Roma Tre University "Sperimentazione in situ ed in laboratorio di volte in foglio rinforzate con sistemi Steel Reinforced Grout" (Field and laboratory testing of masonry vaults strengthened with Steel Reinforced Grout systems).
2016	Research Contract as Consultant with the Department of Engineering of Roma Tre University "Controllo di accettazione di Compositi FRM-Fabric Reinforced Cementitious Matrix" (Qualification and Acceptance of FRM Composites) (carried out in addition to the main activity as post-doc research assistant).
2011-2016	Research assistant at the Department of Engineering, Roma Tre University within a research project titled "Criteria and methodologies for the seismic assessment of masonry structures".
2015	Research Contract as Consultant with the Department of Engineering Roma Tre University "Numerical simulations for fragility curves evaluation of steel storage tanks" (carried out in addition to the main activity as post-doc research assistant).
2011	Research assistant at UWE (University of the West of England) at Bristol. The research activity was related to a 3-year research project on "Fatigue behaviour and remaining service life of masonry arch bridges" and focused on experimental tests on the fatigue strength of masonry and on the condition assessment of masonry bridges with the acoustic emission monitoring technique.
2007-2010	Ph.D. in Science of Civil Engineering. Roma Tre University, Department of Structures. Title of the Doctoral Thesis: "Load carrying-capability and seismic assessment of masonry bridges". Position provided with a 3-year scholarship.

## EDUCATION AND PROFESSIONAL LICENCES

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### *Education*

2007-2011	Ph.D. in Civil Engineering. Roma Tre University, Department of Structures. Title of the Doctoral Thesis: "Load carrying-capability and seismic assessment of masonry bridges". 11 April 2011. The Ph.D. Thesis was awarded with a special mention in the final judgement of the jury of the Edoardo Benvenuto Prize (10th Edition, year 2012).
2005-2007	Master's Degree in Engineering for the Protection of Territory from Natural Risks – Specialization Area: Structures and Seismic Risk, Roma Tre University. Mark: 110/110 cum Laude. Title of the thesis: "Modelling of masonry walls as thin plates". Homogenization and limit analysis of periodic masonry walls. 4 October 2007.
2002-2005	Bachelor's Degree in Civil Engineering – Specialization Area: Civil Buildings, Roma Tre University. Mark: 110/110 cum Laude. Title of the thesis: "Analysis of masonry elements subjected to eccentric axial load through the fiber beam model: determination of material properties". Experimental investigation and numerical modelling in of arch bridge historic masonry. 28 September 2005.
2002	High school leaving qualifications, Senior high school specializing in science education "Amedeo Avogadro", Rome. Mark: 100/100.

2001 Stefano was selected to take part to a cultural exchange agreement between Italy and USA and spent 1 month in Pittsburgh, PA, USA as an exchange student.

### **Other titles**

2007 GRE (Graduate Record Examination) General Test, ETS. Mark: 800/800 Quantitative section (94 percentile) and 550/800 Verbal section (80 percentile).  
2007 TOEFL (Test of English as a Foreign Language), ETS. 104/120.  
2002 FCE (First Certificate in English), University of Cambridge. Mark: Grade B.  
Trinity College of London: Grade 7 (1998), 6 (1997), 5 (1996), 4 (1995), 3 (1994).

### **Professional licences**

2009 Licence to the professional activity of Civil and Environmental Engineer (February 2008). Stefano is registered in the Board of Engineers of Rome, Section A (Civil and Environmental Engineering) at n. 30084 (19/01/2009).

### **Scholarships**

2007-2010 3-year Ph.D. scholarship  
2004; 2007 Tuition fees exemption

## **LANGUAGE SKILLS**

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- English: fluent knowledge of both written and spoken language (FCE and TOEFL exams).
- French: basic knowledge of written and spoken language.

## **COMPUTER SKILLS**

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- OS: Windows.
- Daily use of Internet Explorer, web browser and electronic mail SWs.
- Daily use of all the SWs of MS-OFFICE.
- Other SWs: SAP2000, Straus7, OpenSees, GID, AutoCAD, Matlab, MathCad, Mathematica, Comsol Multiphysics (FemLab), Paratie, Geoslope, VCASLU, EC2, DM96, ProShake, SeismoSignal, Ring, Maple, USC\_RC, Photoshop, Rexel, AEWIn.
- Programming skills in the following languages: Matlab, Tcl/Tk, OpenSees, Mathematica (advanced level); C++, C (basic level)

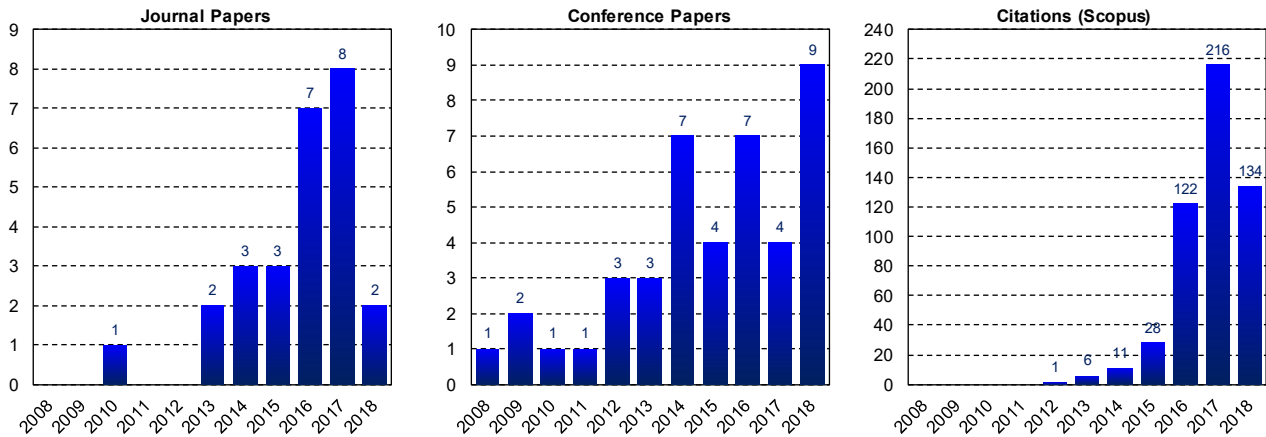
## **POST-GRADUATE / DOCTORAL - LEVEL COURSES ATTENDED**

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2015 • Seismic Assessment of Masonry Structures (Rome).  
2011 • Scientific and technical calculus in C++ progr. lang. - Caspur HPC High Performance Computing (Rome).  
2010 • Masonry Arch Bridges Masterclass - University of the West of England (Bristol).  
• Scientific and technical calculus in C progr. lang. - Caspur HPC High Performance Computing (Rome).  
• Matlab for the scientific calculus - Caspur HPC High Performance Computing (Rome).  
2009 • Numerical methods in seismic engineering - CISM (Udine).  
• Masonry Constructions. Modeling, seismic reliability and conservation of ordinary and monumental buildings (Rome).  
2008 • Finite elements - Prof. V. Ciampi, Dott.ssa D. Addressi (Rome).  
• Experimental and numerical methods in seismic engineering - Prof. O. Bursi (Trento).  
• Non-linear analysis - Prof. V. Ciampi, Dott.ssa D. Addressi (Rome).  
• Arch bridges - Prof. R. Di Marco (Rome).  
• A variational approach to fracture mechanics - Prof. J.J. Marigo (Rome).  
• Aleatory dynamics - Prof. R. Giannini (Rome).

**Overview of scientific publications and bibliometric indicators**

- Journal papers: 26 (all peer-reviewed International Journals)  
1 as single author, 11 as first author (with co-authors), 5 without the PhD supervisor
- Conference papers: 39 (31 International Conferences, 8 National Conferences, all with peer review)
- National Journals: 3
- Citations: 518 (source: Scopus)
- H-index: 15 (source: Scopus)



**International Referred Journals**

2018 De Santis S, Hadad HA, De Caso y Basalo FJ, de Felice G, Nanni A. Acceptance Criteria for Tensile Characterization of Fabric Reinforced Cementitious Matrix (FRCM) Systems for Concrete and Masonry Repair. *Journal of Composites for Construction*. To appear.

De Santis S, Roscini F, de Felice G. Full-scale tests on masonry vaults strengthened with Steel Reinforced Grout. *Composites Part B: Engineering* 2018;141:20-36. DOI: 10.1016/j.compositesb.2017.12.023.

2017 Di Ludovico M, Digrisolo A, Graziotti F, Moroni C, Belleri A, Caprili S, Carocci C, Dall’Asta A, De Martino G, De Santis S, Ferracuti B, Ferretti D, Fiorentino G, Mannella A, Marini A, Mazzotti C, Sandoli A, Santoro A, Silvestri S, Sorrentino L, Magenes G, Masi A, Prota A, Dolce M, Manfredi G. The contribution of ReLUIS to the usability assessment of school buildings following the 2016 central Italy earthquake. *Bollettino di Geofisica Teorica ed Applicata* 2017;58(4):353-376. DOI: 10.4430/bgta0192.

De Santis S. Bond behaviour of Steel Reinforced Grout for the extrados strengthening of masonry vaults. *Construction and Building Materials* 2017;150:367-382. DOI: 10.1016/j.conbuildmat.2017.06.010.

Caggegi C, Carozzi FG, De Santis S, Fabbrocino F, Focacci F, Hojdis L, Lanoye E, Zuccarino L. Experimental analysis on tensile and bond properties of PBO and Aramid fabric reinforced cementitious matrix for strengthening masonry structures. *Composites Part B: Engineering*, 2017;127:175-195. DOI: 10.1016/j.compositesb.2017.05.048.

Lignola GP, Caggegi C, Ceroni F, De Santis S, Krajewski P, Lourenço PB, Morganti M, Papanicolaou C, Pellegrino C, Prota A, Zuccarino L. Performance assessment of basalt FRCM for retrofit applications on masonry. *Composites Part B: Engineering*, 2017;128:1-18. DOI: 10.1016/j.compositesb.2017.05.003.

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### ***Researcher Identifiers***

- SCOPUS** Author ID: 56354510200
- ResearchGate** page: [https://www.researchgate.net/profile/Stefano\\_De\\_Santis5](https://www.researchgate.net/profile/Stefano_De_Santis5)
- ResearcherID**: L-8220-2015
- ORCID** ID: 0000-0002-0816-4865

### ***Websites***

<https://www.romatrestrutture.eu/people/stefano-de-santis/>



Link to ResearchGate Page



Link to ORCID Page



Link to the website

Date:  
14 June 2018

Signature:

Stefano De Santis