

Curriculum vitae of Simone Galano

▪ Personal Information

First name: Simone
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▪ Education and Academic positions

01/09/2025 – **Marie Skłodowska-Curie Postdoctoral Research Fellow**: “Enhancing the seismic resilience of present Reinforced concrete structures Using rubber JOInts” (RUJOI)
Department of Civil and Environmental Engineering
University of Strathclyde
James Weir Building, 75 Montrose Street, Glasgow, G1 1XJ

01/01/2022 – **Postdoctoral researcher**
31/10/2023 Postdoc research grant (PG n. 112276 del 09/11/2021 – D.D. n. 449 del 15/11/2021): “Structural analysis and capacity models for reinforced concrete and prestressed concrete bridge structural elements”
Department of Structures for Engineering and Architecture
University of Naples Federico II
Via Claudio, 21, 80125, Naples (NA), Italy

01/11/2018 - **Doctorate’s degree**
31/12/2021 European Doctorate Degree in “Structural, Geotechnical and Seismic Risk Engineering”.
Department of Structures for Engineering and Architecture, University of Naples Federico II
Dissertation Title: “Stability assessment of Unbonded Fiber Reinforced Elastomeric Isolators”
Supervisors: Prof. Giorgio Serino, Prof. Daniele Losanno, Prof. Andrea Calabrese

23/08/2019 – **Visiting PhD student**
23/05/2020 Department of Civil Engineering & Construction Engineering Management
California State University Long Beach
1250 Bellflower Blvd. Long Beach, CA 90840

01/01/2015 – **Master’s Degree**
29/10/2018 Master of Science (summa cum laude) in “Structural and Geotechnical Engineering”.
Department of Structures for Engineering and Architecture, University of Naples Federico II
Thesis Title: “Mechanical characterization of recycled-rubber pads for low-cost seismic isolation devices”
Supervisors: Prof. Giorgio Serino, Prof. Daniele Losanno

▪ Professional experience

01/12/2025 – **Creas lab** – Associate
Present *Fiorano Modenese (MO), Italia*
Main duties :
i. Design of testing facilities.

ii. Full-scale experimental testing on infilled reinforced concrete frames and masonry shear walls with and without strengthening systems.

2022 – **Port of Long Beach** – Consultancy
Present *Long Beach, California, United States*

- i. 3D finite element analyses of seismic fuse system at Pier T using Abaqus
- ii. 3D nonlinear time history analyses of the wharf at Pier T using SAP2000
- iii. 3D finite element dynamic analyses of expansion joint and shear key at Pier E using Abaqus

06/12/2023 – **Progetto Sisma srl** – R&D division | Structural Engineer
31/08/2025 *Fiorano Modenese (MO), Italia*

Main duties:

- i. Development of lightweight cold-formed steel exoskeleton combining seismic strengthening and thermal isolation of existing infilled reinforced concrete and masonry structures.
- iv. Simulations of infilled reinforced concrete structures through 3D accurate finite element analyses (e.g. Abaqus).
- v. Structural design of retrofitting solutions for existing reinforced concrete structures.

02/11/2023 – **Sipal spa** – Structural engineering division
05/12/2023 *Napoli, Italy*

Main duties:

- i. Assessment and retrofitting of existing prestressed concrete bridges.
- ii. In-situ inspections of existing bridges.
- iii. Project supervisors.

▪ **Awards and fellowships**

Marie Skłodowska-Curie Postdoctoral Research Fellow:

“Enhancing the seismic resilience of Reinforced concrete structures Using rubber JOInts” (RUJOI). Department of Civil and Environmental Engineering, University of Strathclyde, Glasgow, Scotland. Supervisor: Prof. Ing. Enrico Tubaldi.
Secondment partners: Prof. Ivo Calì (Università di Catania), Hamid Ahmadi (Tun Abdul Razak Research Centre)

Top viewed article in Structural Concrete

Simone Galano, Daniele Losanno, Giacomo Miluccio, Fulvio Parisi, (2023) “Multidimensional nonlinear numerical simulation of post-tensioned concrete girders with different prestressing levels”. *Structural Concrete* 24 (6), 7021-7042. <https://doi.org/10.1002/suco.202300272>.

Among work published in *Structural Concrete* between January 1, 2023 – December 31, 2023 up to 12 months after publication.

▪ **Main publications**

Andrea Calabrese, Mariacristina Spizzuoco, **Simone Galano**, Nghiem Tran, Salvatore Strano, Mario Terzo, (2021) “A parametric study on the stability of fiber reinforced rubber bearings under combined axial and shear loads”. *Engineering Structures* 227, 111441. <https://doi.org/10.1016/j.engstruct.2020.111441>.

Chris Tran, Andrea Calabrese, Michalis F. Vassiliou, **Simone Galano**, (2020) “A simple strategy to tune the lateral response of unbonded Fiber Reinforced Elastomeric Isolators (FREIs)”. *Engineering Structures* 222, 111128. <https://doi.org/10.1016/j.engstruct.2020.111128>.

Simone Galano, Andrea Calabrese, Daniele Losanno, Giorgio Serino, Salvatore Strano, (2021) “Tuning the lateral response of unbonded fiber reinforced elastomeric isolators (U-FREIs) through horizontal holes:

Experimental and numerical findings”. *Composite Structures*, Volume 289, 1 June 2022, 115454. <https://doi.org/10.1016/j.compstruct.2022.115454>.

Simone Galano, Daniele Losanno, Andrea Calabrese, (2021) “Stability analysis of unbonded fiber reinforced isolators of square shape”. *Engineering Structures* 245, 112846. <https://doi.org/10.1016/j.engstruct.2021.112846> .

Daniele Losanno, **Simone Galano**, Fulvio Parisi, Maria Rosaria Pecce, Edoardo Cosenza, (2024) “Experimental investigation on nonlinear flexural behavior of post-tensioned concrete bridge girders with different grouting conditions and prestress levels”. *Journal of Bridge Engineering*, 29 (3), 04023121. <https://doi.org/10.1061/JBENF2.BEENG-6466>.

Simone Galano, Andrea Calabrese, (2023) “State of the art of seismic protection technologies for non-engineered buildings (N-EBs) in developing regions of the world”. *Journal of Earthquake Engineering*, 27 (15), 4327-4353. <https://doi.org/10.1080/13632469.2023.2165579>.

Simone Galano, Andrea Calabrese, Daniele Losanno, (2021) “On the response of fiber reinforced elastomeric isolators (FREIs) under bidirectional shear loads”. *Structures*, 34, 2340-2354. <https://doi.org/10.1016/j.istruc.2021.08.107>.

Simone Galano, Daniele Losanno, Giacomo Miluccio, Fulvio Parisi, (2023) “Multidimensional nonlinear numerical simulation of post-tensioned concrete girders with different prestressing levels”. *Structural Concrete* 24 (6), 7021-7042. <https://doi.org/10.1002/suco.202300272>.

Daniele Losanno, **Simone Galano**, Fulvio Parisi, (2024) “Influence of strand rupture on flexural behavior of reduced-scale prestressed concrete bridge girders with different prestressing levels”. *Engineering Structures* 301, 117358. <https://doi.org/10.1016/j.engstruct.2023.117358>.

Simone Galano, Daniele Losanno, Fulvio Parisi, (2024) “Numerical simulation of post-tensioned concrete girders with defective grouting including local stress–strain tendons response”. *Structural Concrete*. <https://doi.org/10.1002/suco.202400416>.

Simone Galano, Andrea Calabrese, Pitiporn Asvathanagul, Shideh Shadravan, Maggie Ly, Daniela Flores, Michael Hernandez, Mehran Rahmani, “Innovative Approaches to Enhancing Concrete Compressive Strength: An Extensive Investigation of Biochar-Embedded and Self-Repairing Techniques”. *Journal of Material in Civil Engineering*. <https://doi.org/10.1061/JMCEE7/MTENG-19564>.

S. Galano, A. Calabrese, D. Konstantinidis, and M. F. Vassiliou, (2025) “Adaptive Base Isolation System with Elastomeric Bearings: Multi-Stage Fiber-Reinforced Elastomeric Bearings (MS-FRBs) for Tailoring Response to Ground Motion Demands.” *Earthquake Engineering & Structural Dynamics*: <https://doi.org/10.1002/eqe.70054>.

Antonio Formisano, **Simone Galano**, Emilia Meglio, Ciro Del Vecchio, Andrea Prota, (2025) Experimental investigation on innovative lightweight steel exoskeleton for seismic resilience of masonry-infilled reinforced concrete frames. *Engineering Structures* 344, 121410. <https://doi.org/10.1016/j.engstruct.2025.121410>.

Simone Galano, Daniele Losanno, Fulvio Parisi. Numerical evaluation of corrosion effects on the flexural response of post-tensioned concrete bridge girders with defective grouting. *Engineering Structures* Volume 336, 1 August 2025, 120444. <https://doi.org/10.1016/j.engstruct.2025.120444> (0 citations).

İsmail Ozan Demirel, **Simone Galano**, Paolo Morandi, Ugurhan Akyuz (2026) Seismic enhancement of masonry-infilled substandard reinforced concrete frames using lightweight steel exoskeleton. *Earthquake Engineering & Structural Dynamics*, 55 (3). pp. 603-623. ISSN 1096-9845 (<https://doi.org/10.1002/eqe.70102>)

▪ Experience in research projects

Research funded projects Title: “Advanced Structural Analysis, Performance Assessment, and Definition of Retrofit Strategies for the Seismic Fuse Elements of the Structures of the Wharfs at Pier “T” of the Port of Long Beach. Fund provider”: *The Port of Long Beach*. Principal investigators: Prof. Andrea Calabrese, Prof. Mehran Rahmani

Title: “Enhancing the seismic resilience of Reinforced concrete structures Using rubber JOInts (RUJOI)”. Fund provider: *European Union* (HORIZON-MSCA-2024-PF-01). Principal investigators: Prof. Enrico Tubaldi.

Title: “Experimental Investigation of the Self-Healing Potential of Bacteria for Sustainable Concrete Structures”. Project 2239 - April 2023. Fund provider: *Mineta Transportation Institute*. Principal investigator: Prof. Andrea Calabrese.

Title: “PRIN 2020 - FIRMITAS: multi-hazard assessment, control and retroFIIt of bridges for enhanced Robustness using sMart IndusTriAlized Solutions”. Fund provider: *Italian Ministry of Education, University and Research*. Principal investigator: Prof. Fulvio Parisi.

Title: “sistema di monitoraggio INtelligente per la SIcurezza delle infraSTruttuRe urbane (INSIST)”. Fund provider: *Italian Ministry of Education, University and Research*. Principal investigator: Prof. Edoardo Cosenza.

Title: “Accordo CSLLPP RELUIS PONTI – UR Losanno-vincolo n. 8205 del 15.11.2021”. Fund providers: *Italian High Council of Public Works* and *Italian Ministry of Education, University and Research*. Principal investigator: Prof. Edoardo Cosenza.

Title: “STAR PLUS 2020 - RESIST: RobustnEss aSessment and retrofitting of bridgeS to prevent progressive collapse under multiple hazards”. Fund provider: *European Union*. Principal investigator: Prof. Ing. Fulvio Parisi.

Title: “Stability of Fiber-Reinforced Bridge Bearings under Compression and Shear Loads”. Project 1929 - July 2020. Fund provider: *Mineta Transportation Institute*. Principal investigator: Prof. Ing. Andrea Calabrese.

Title: “Low COst ISOLators for Engineered and Non-Engineered Costructions of Developing Countries (LO-CO-ISO)”. Fund provider: *European Science Foundation*. Principal investigator: Prof Giorgio Serino, Prof. Daniele Losanno

▪ Supervising and mentoring activities

Co-advisor of master’s and bachelor’s theses Stability analysis of fiber reinforced elastomeric isolators with modified geometry. Master’s degree in Structural and Geotechnical Engineering. Department of Structures for Engineering and Architecture. University of Naples Federico II, Italy. A.Y. 2018/2019

Innovative base isolation system using fiber reinforced elastomeric isolators in series: numerical investigation. Master of Science in Structural Engineering. Department of Civil Engineering & Construction Engineering Management. California State University Long Beach, United States. A.Y. 2020/2021.

State of the art on the self-healing technique for reinforced concrete: methodology, technology and developments. Master's degree in building engineering. Department of Civil, Building and Environmental Engineering. University of Naples Federico II, Italy. A.Y. 2023/2024.

Numerical study on the Port of Long Beach dissipation system. Master's degree in building engineering. Department of Civil, Building and Environmental Engineering. University of Naples Federico II, Italy. A.Y. 2023/2024.

Numerical assessment of the Pier T of the Port of Long Beach. Master's degree in Structural and Geotechnical Engineering. Department of Structures for Engineering and Architecture. University of Naples Federico II, Italy. A.Y. 2023/2024.

Analytical-experimental comparison of the response of post-tensioned reinforced concrete beams under vertical load. Bachelor's degree in civil engineering. University of Naples Federico II, Italy. A.Y. 2023/2024.

State of the art of prestressed reinforced concrete road bridges in Italy in the period 1950-1980. Bachelor's degree in civil engineering. University of Naples Federico II, Italy. A.Y. 2022/2023.

▪ **Assistant teaching experience**

Structural Dynamics

Chair : Prof. Enrico Tubaldi
BEng in Civil and Environmental Engineering
Department of Civil and Environmental Engineering
University of Strathclyde, Glasgow

Theory and Design of Bridges

Chairs: Prof. Edoardo Cosenza, Prof. Giorgio Serino, Prof. Daniele Losanno
MSc in Structural and Geotechnical Engineering
Department of Structures for Engineering and Architecture
University of Naples Federico II.

Earthquake Engineering and Structural Control

chair: Prof. Giorgio Serino
MSc in Structural and Geotechnical Engineering
Department of Civil, Building and Environmental Engineering
University of Naples Federico II

Advanced Structural Engineering

Chair: Prof. Giorgio Serino
BSc of Science in civil engineering
Department of Civil, Building and Environmental Engineering
University of Naples Federico II

Analytical Mechanics I Statics

chair: Prof. Andrea Calabrese
BSc in Civil Engineering
Department of Civil Engineering & Construction Engineering Management.
California State University Long Beach

Seismic Design I

chair: Prof. Andrea Calabrese
MSc in Structural Engineering.

▪ **Reviewer of international journals**

- 1 Scientific Reports
- 2 Engineering Structures
- 3 Journal of Building Engineering
- 4 Engineering Failure Analysis
- 5 Composite Structures
- 6 Structures
- 7 Case Studies in Construction Materials
- 8 Results in Engineering
- 9 Journal of Materials Research and Technology
- 10 Structural Concrete
- 11 Engineering Reports
- 12 Tunnelling and Underground Space Technology incorporating Trenchless Technology Research
- 13 ASCE Journal of Bridge Engineering
- 14 ASCE Journal of Performance of Constructed Facilities
- 15 Journal of Applied Polymer Science
- 16 Frontiers in Microbiology
- 17 polymers
- 18 buildings
- 19 Innovative Infrastructure Solutions
- 20 Journal of Applied and Computational Mechanics
- 21 Structural Engineering International

▪ **Languages**

	<i>Reading</i>	<i>Writing</i>	<i>Listening</i>
Italian	Native	Native	Native
English	Full Professional Proficiency	Full Professional Proficiency	Professional Working Proficiency