




PERSONAL INFORMATION	Luciano Rosati	
	 Department of Structures for Engineering and Architecture, University of Naples Federico II, via Claudio 21, 80125, Naples, Italy	
	 (+39) 3387412571	
	 rosati@unina.it	
	Sex Male   Date of birth 29/07/1958   Nationality Italian	
CURRENT POSITION	Full Professor of Structural Mechanics at University of Naples "Federico II"	
RESEARCH TOPICS / EXPERIENCES	<ul style="list-style-type: none"> <li>▪ Mechanics of structures with convex constraints</li> <li>▪ Thin-Walled beams</li> <li>▪ Variational principles in structural mechanics</li> <li>▪ Internal variable plasticity</li> <li>▪ Computational plasticity</li> <li>▪ Finite-element models of composite plates and shells</li> <li>▪ Computational analysis of masonry structures</li> <li>▪ Cohesive-zone models for the analysis of interface problems</li> <li>▪ Numerical analysis of RC beams retrofitted with FRP</li> <li>▪ Computational problems in nonlinear continuum mechanics</li> <li>▪ Ultimate limit state analysis of reinforced and prestressed concrete sections</li> <li>▪ Analysis of open cell biphasic media</li> <li>▪ Fiber-free nonlinear analysis of RC structures</li> <li>▪ Thermo-mechanical contact problems in half-spaces</li> <li>▪ Analysis of isotropic and transversely isotropic half-spaces</li> <li>▪ Phenomenological modelling of hysteresis phenomena</li> </ul>	
KEYWORDS	Solid and Structural Mechanics, Structural Dynamics	
SCIENTIFIC / TECHNICAL QUALIFICATION (source: please specify i.e. Scopus, Google Scholar, IRIS)	▪ H-index (if applicable)	▪ 22 (Scopus)
	▪ No. publications (relevant with respect to the "KEYWORDS"):	▪ 96 (Scopus)
	▪ No. citations (if applicable):	▪ 1498 (Scopus)

## EDUCATION AND TRAINING

1989	Ph.D. in structural mechanics at the University of Naples 'Federico II' discussing the dissertation: <i>Problems in mechanics of structures with convex constraints</i>
1985	TOEFL diploma in English (marks 570/700) at the American Study Center in Naples
1984	B.S. and M.S. degree in civil engineering (with honours) at the University of Naples 'Federico II'
1983	Qualification to the profession of civil and environmental engineer with full marks
1982	B.S. and M.S. degree in mechanical engineering (with honours) at the University of Naples 'Federico II'
1976	FIRST certificate diploma in English at the British Council in Naples
1976	Scientific High School diploma with full marks

## WORK EXPERIENCE

2021 – CURRENT	President of SISCO - Italian Society of Scienza delle Costruzioni
2021 – CURRENT	Head of C.I.BE.C - Interdepartmental Center of Engineering for Cultural Heritage
2016 – 2021	Representative of full professors in civil engineering and architecture within CUN - Consiglio Universitario Nazionale
2001 – CURRENT	Full professor of structural mechanics University of Naples 'Federico II'
1998 – 2001	Associate professor of structural mechanics University of Naples 'Federico II'
1997	two-months NATO-CNR grant for research activity at the Imperial College in London (UK). Department of aeronautics. Supervisor: prof. M. Crisfield. Topic: <i>development and implementation of finite element models for large strain elastoplasticity</i> – NATO-CNR
1990 – 1998	Researcher in structural mechanics University of Naples 'Federico II'

## MAIN ROLES AND RESPONSIBILITIES

2021 – CURRENT	▪ President of SISCO - Italian Society of Scienza delle Costruzioni
2021 – CURRENT	▪ Head of C.I.BE.C - Interdepartmental Center of Engineering for Cultural Heritage
2016 – 2021	▪ Representative of full professors in civil engineering and architecture within CUN - Consiglio Universitario Nazionale

## SERVICE TO NATIONAL AND INTERNATIONAL COMMUNITY

(i.e. editor of national or international journals, Chair-person of national or international committees, member of ISC or Advisory Boards, other relevant positions in national or international bodies, etc.)

2021 – CURRENT	▪ President of SISCO - Italian Society of Scienza delle Costruzioni
2021 – CURRENT	▪ Head of C.I.BE.C - Interdepartmental Center of Engineering for Cultural Heritage
2016 – 2021	▪ Representative of full professors in civil engineering and architecture within CUN - Consiglio Universitario Nazionale

## TEACHING EXPERIENCE

2001 – present	▪ Courses of "Structural Mechanics", "Computational Mechanics" and "Nonlinear Structural Analysis".
1994 - 1998	▪ Courses of "Mechanics of Solids", "Computational Mechanics".
1989 - 1998	▪ Teaching assistant in courses of "Structural Mechanics".

## MAIN RESEARCH EXPERIENCE

2016	▪ Research project (RP) titled 'Advanced mechanical modeling of new materials and structures for the solution of 2020 Horizon challenges' funded by MIUR. Value: € 47.000.
2012	▪ Research project (RP) titled 'Models and algorithms for nonlinear structural analysis and validation of performance-based design rules' funded by MIUR. Value: € 45.000.
2007	▪ Research project (RP) titled 'Numerical algorithms for nonlinear modelling of reinforced concrete structures' funded by MIUR. Value: € 49.000.
2005	▪ Research project (RP) titled 'Setting of guidelines for the strengthening of reinforced concrete structures by means of composite materials, funded by the Regione Campania (regional institution). Value: € 15.000.
2004	▪ RP titled 'Development of numerical algorithms and constitutive models for the analysis of fiber-reinforced composite laminates', jointly funded by the 'Italian Ministry for Education, University and Research' (MIUR) and the Spanish Ministry for Education and Science. Value: € 11.000.
2002	▪ RP titled 'Numerical Modelling of reinforced-concrete structures retrofitted with fiber-reinforced polymer materials' funded by MIUR. Value: € 31.500.
2001	▪ RP titled 'Modelling and analysis of adhesively bonded structural joints', jointly funded by MIUR and the French 'Ministère des Affaires Etrangères' (France Foreign Office) within the framework of the program 'Galileo'. Value: € 8.000.
1998	▪ RP titled 'Retrofitting of the mechanical behaviour of monumental constructions', funded by C.N.R. (National Research Council). Value: £ 5.000.000 .
1997	▪ RP titled 'Theoretical-experimental study on the mechanical behaviour of monumental constructions', funded by C.N.R. Value: £ 5.000.000.
1996	▪ RP titled 'Theoretical-experimental study on the mechanical behaviour of monumental constructions', funded by C.N.R. Value: £ 10.000.000.
1995	▪ RP titled 'Analysis of masonry structural models', funded by C.N.R. Value: £ 15.000.000.
1994	▪ RP titled 'Analysis of masonry structural models', funded by C.N.R. Value: £ 20.000.000.
1994	▪ RP titled 'Constitutive equations in elastoplasticity with internal variables' funded by MIUR-60%. Value £ 2.200.000
1993	▪ RP titled 'Analysis of structural models with damage', funded by C.N.R. Value: £ 5.000.000.
1992	▪ RP titled 'Dynamic behaviour of masonry structures' funded by MIUR-60%. Value £ 2.400.000

## OTHER RELEVANT EXPERIENCES

	<ul style="list-style-type: none"> <li>▪ Coordinator of the PhD programme in Structural, Geotechnical Engineering and Seismic Risk at the University of Naples Federico II</li> </ul>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

	<ul style="list-style-type: none"> <li>▪ Component of the National University Council (CUN) as representative of Full Professors in Civil Engineering and Architecture</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Coordinator of the PhD programme in Structural, Geotechnical Engineering and Seismic Risk</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Member of the Italian branch of the Natural Society of Philosophy</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Member of the Excellence National Center "Structural composites for innovative applications"</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Member of the Regional Center of Competence "Analysis and monitoring of Environmental Risk"</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Member of the Research Task Committee "Instructions for the Design, Construction and Control of Static Strengthening by means of fiber-reinforced composites", hosted by C.N.R. (National Research Council).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Past Member of the National Secretary of the scientific area ICAR/08 "Mechanics of Structures"</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Member of the Professor Council of the Ph.D. in Structural Engineering.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Member of the Professional Institution of Engineers in Naples (since 1983).</li> </ul>

## ADDITIONAL INFORMATION

### Publications

List of the most relevant publications (up to 5)

- 1) Pellecchia, D., Lo Feudo, S., Vaiana, N., Dion, J.-L., Rosati, L. (2021) A procedure to model and design elastomeric-based isolation systems for the seismic protection of rocking art objects. *Computer-Aided Civil and Infrastructure Engineering*.
- 2) Pellecchia, D., Sessa, S., Vaiana, N., Rosati, L. (2020) Comparative assessment on the rocking response of seismically base-isolated rigid blocks. *Procedia Structural Integrity*.
- 3) Marmo, F., Ruggieri, N., Toraldo, F., Rosati, L. (2019) Historical study and static assessment of an innovative vaulting technique of the 19th century. *International Journal of Architectural Heritage*.
- 4) Vaiana, N., Sessa, S., Marmo, F., Rosati, L. (2019) An accurate and computationally efficient uniaxial phenomenological model for steel and fiber reinforced elastomeric bearings. *Composite Structures*.
- 5) Marmo, F., Masi, D., Mase, D., Rosati, L. (2019) Thrust network analysis of masonry vaults. *International Journal of Masonry Research and Innovation*.

*According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV*

Signature

