

Updated in December 2025

PERSONAL INFORMATION	Annalisa Greco
	📍 Dipartimento di Ingegneria Civile e Architettura – Università degli Studi di Catania
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	✉ annalisa.greco@unict.it
	Sex Female Date of birth 20/12/1961 Nationality Italian
CURRENT POSITION	Associate Professor of Mechanics of Structures
RESEARCH TOPICS / EXPERIENCES	<ul style="list-style-type: none"> - Adoption of Functionally Graded Materials in Structural Engineering - Nonlinear modelling of masonry structures. - Discrete Macro-modelling of masonry structures. - Seismic protection and retrofitting of monumental structures - Vulnerability assessment of art objects and museum contents - Nonlinear Dynamics of Structures. - Closed form solutions of inhomogeneous beams in static and dynamics. - Closed form solutions of cracked beams in static and dynamics. - Nonlinear behaviour of rocking structures. - The Dynamic Stiffness method in the context of dynamics and stability of damaged framed systems and arch structures. - Foundation lifting on the dynamic behaviour of structures. - Nonlinear Soil Structure Interaction problems. - Inverse solutions and methods of dynamic identification of damage in structures. - Limit analysis of framed structures - Analysis of acoustic emissions of building materials under compression tests - Agent based models for earthquake simulations
KEYWORDS	Nonlinear modelling of masonry structures, damaged beam, discontinuous beam, inhomogeneous beams, seismic vulnerability, seismic protection, damaged framed system, seismic isolation, seismic isolation of art objects, rocking structures, nonlinear dynamics, damaged structures, soil structures interaction, limit analysis, acoustic emissions.

EDUCATION AND TRAINING

1986	Master degree: Civil Engineering, curriculum structures, University of Catania (final mark 110/110 cum laude)
1980	High school diploma

WORK EXPERIENCE

Since 2003	Associate Professor
	University of Catania, Piazza Università 2, Catania, https://www.unict.it/
1990	University researcher

	University of Catania, Piazza Università 2, Catania, https://www.unict.it/
1987	Scholarship of the foundation <i>Toscano Scuderi</i>

MAIN ROLES AND RESPONSIBILITIES

From 2022	- Didactic delegate for the Department of Civil Engineering and Architecture of the University of Catania
Since 2020 To 2022	- Vice director of the Department of Civil Engineering and Architecture of the University of Catania
From 2015	- Member of the Scientific Committee of the Phd School in "Estimation and mitigation of Urban and Territorial Risks" of the University of Catania.
From 2013 To 2020	- Coordinator of the Degree in Civil and Environmental Engineering at the University of Catania
From 2009 To 2014	-Coordinator of a team for the estimate of the seismic vulnerability of the buildings of the University of Catania
From 2009 To 2014	-Delegate for Mobility on behalf of the Chancellor and she has covered the role of Responsible for Mobility Management
From 2001 To 2002	-Member of the Academic Senate of the University of Catania

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.)

Since 2022	- Editor: Buildings
Since 2021	- Editor: Academic Editor of Shock & Vibration
Since 2021	- Guest Editor for the journal "Building- MDPI" for the publication of the special issue "Computational Models for Dynamic Analyses of Buildings and Structures"
	- Reviewer: Engineering Structures
	- Reviewer: Mathematical problems in Engineering
	- Reviewer: Mechanical systems and signal
	- Reviewer: Optimization and Engineering
	- Reviewer: Soil dynamics and Earthquake Engineering
	- Reviewer: International journal of engineering and technology
	- Reviewer: Bulletin of Earthquake engineering
	- Reviewer: Advances in fuzzy systems
	- Reviewer: Structures

	- Reviewer: International journal of architectural heritage
Since 2000	- Reviewer: Inverse Problems in Science & Engineering
Since 2000	- Reviewer: Archive of Mechanical Engineering
Since 2000	- Reviewer: Journal of Sound and Vibration
Since 2000	- Reviewer: Continuum mechanics and Thermodynamics
Since 2000	- Reviewer: Earthquake Engineering and Engineering Vibration
Since 2000	- Reviewer: Journal of Vibration and Control
Since 2000	- Reviewer: Journal of Structural Engineering
Since 2000	- Reviewer: Scientia Iranica
Since 2000	- Reviewer: Buildings
Since 2000	- Reviewer: Shock and vibration
Since 2000	- Reviewer: Structural Engineering and Mechanics: an international journal
Since 2000	- Reviewer: Recent Patents on Engineering
Since 2000	- Reviewer: Meccanica
Since 2000	- Reviewer: Acta Mechanica
Since 2000	- Reviewer: Advances in Material Science and Engineering
Since 2000	- Reviewer: Journal of civil Engineering
Since 2000	- Reviewer: Advances in Structural Engineering
Since 2000	- Reviewer: Journal of Engineering Mechanics
Since 2000	- Reviewer: SN Applied Sciences
Since 2000	- Reviewer: Civil Engineering
Since 2000	- Reviewer: Physica A

TEACHING EXPERIENCE

From 2005 To now	- Professor: <i>Mechanics of Structures</i> within the course of Civil and Environmental Engineering University of Catania
September 2023	- Visiting professor to Università Publica de Navarra (UPNA) offering teaching activities to the students of the Master's Degree in "Applied and Computational Mechanical Engineering"
From 1996 To 2012	- Professor: Inelastic and Limit Analysis of Structures within the course of Civil Engineering University of Catania
From 1995 To 1999	- Professor: <i>Mechanics of Structures</i> within the course of first level degree in Mechanical Engineering
From 1986 To 2002	- Teaching assistant of the moduls of <i>Dynamics of Structures</i> and <i>Mechanics of Structures</i> within the course of Civil Engineering University of Catania

MAIN RESEARCH EXPERIENCE

Since 2022	- Member of the Research Unit of Catania of project PRIN2022 "SAHARA - Safer Architectural Heritage Assets through Risk Assessment"
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Since 2021	- Responsible for the Catania Research Unit within the Prin 2020 project "Sustainable modelling of materials, structures and urban spaces including economic-legal implications"
Since 2020	- Principal investigator for DICAr of the research project on "Technical support software for big data analysis in the medical, energy and structures fields"
From 2019 To 2021	- Member of the Research Unit of Catania of the Italian Project DPC/ReLUIS 2019-2021 for regulatory contributions relating to existing masonry constructions
Since 2018 To 2022	- Member of the European research project "AGM for CuHe: Advanced Green Materials for Cultural Heritage"
Since 2018 To 2022	- Member of the European research project "eWAS: An Early warning System for Cultural Heritage"
Since 2017	- Member of the Research Unit of Catania of project PRIN2017 on "Stochastic forecasting in complex systems"
From 2015 To 2018	- Member of the project PRIN2015 on "Advanced mechanical modelling approach of innovative materials and structures for the solution of 2020 Horizon challenges"
From 2014 To 2017	- Member of project ReLUIS on in situ tests on masonry buildings, financed by Italian Civil Protection Department

OTHER RELEVANT EXPERIENCES

from 2011 To 2014	- For the Department of Structural and Geotechnical Engineering of the University La Sapienza (Rome) she developed the analyses of the seismic vulnerability of two buildings in Catania owned by the Bank of Italy
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HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

	<ul style="list-style-type: none"> - Member of the Italian Society of Mechanics of Structures (SiSCo), Italian Association of Theoretical and applied Mechanics (AIMETA), European Mechanics Society (EUROMECH). - Member of the committee of the Italian Society of Mechanics of Structures (SiSCo) for Social Media, inclusion and gender equality - Member of the scientific committee of the Italian Society for Seismic Engineering (ISI)
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