

European curriculum vitae short version

Personal information

Surname / First name
Address
Telephone
E-mail
Web site
Nationality
Date of birth
Gender

SAPIENZA VINCENZO

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Italian
March 5, 1967
Male



Work Experience main activities

Dates
Occupation or position held
Main activities and responsibilities

FROM: 2023 TO: Present
Full Professor of Architecture Technology.
TEACHING ACTIVITY
From 2023 since now, he has the chair of "Architecture Technology II" and the related Designer Laboratory for Degree Course of Building Engineering-Architecture.
SCIENTIFIC ACTIVITY
He carries out various studies about evolution of the historical building techniques and energy sustainability of contemporary architecture.

Dates
Occupation or position held
Main activities and responsibilities

FROM: 2006 TO: 2023
Associate Professor of Architecture Technology.
TEACHING ACTIVITY
Several chairs of the Architecture Techniques sector are relied on him as duty, in the different years. From 2017 since now, he has the chair of "Architecture Technology II" and the related Designer Laboratory for Degree Course of Building Engineering-Architecture. From 2012 to 2016 he has the chair of "Architecture Technology I" and the related Designer Laboratory for Degree Course of Building Engineering-Architecture. From 2010 to 2012 he has the chair of "History of Modern Architecture" and the related Laboratory of Design for Building Engineering-Architecture.
SCIENTIFIC ACTIVITY
He carries out various studies about evolution of the historical building techniques and energy sustainability of contemporary architecture.

Name and address of employer

University of Catania.
Department of Civil Engineering and Architecture.

Type of business or sector

University education and scientific research.

Dates
Occupation or position held
Main activities and responsibilities

FROM: 1997 TO: 2006
Researcher of Architecture Technology.
SCIENTIFIC ACTIVITY
He carries out various studies about life cycle assessment, geometry and evolution of the historical building techniques.

	TEACHING ACTIVITY He supports the chair of "Architecture Technology II" for the course of Degree Course of Building Engineering (changed in Building Engineering-Architecture since 2002), undertaking a series of lectures and weekly exercises. University of Catania. Department of Architecture. University education and scientific research.
Name and address of employer	
Type of business or sector	
Work Experience secondary activities	
Dates	FROM: 2024 TO: Present
Occupation or position held	President
Name and address of employer	Master Degree in Engineering-Architecture
Type of business or sector	Coordination of teachers' activities and management of students' inquiries.
Dates	FROM: 2016 TO: Present
Occupation or position held	Scientific Director
Name and address of employer	Enabling Techniques for Architecture Laboratory of University of Catania (ETA-Lab).
Type of business or sector	Scientific Research and University Education
Dates	FROM: 2020 TO: Present
Occupation or position held	Responsible of Double Degree Agreement between "Laurea Magistrale a ciclo unico in Ingegneria Edile-Architettura" and "Grado en Edification"
Name and address of employer	University of Catania and Polytechnic University of Madrid
Type of business or sector	University education
Dates	FROM: 2009 TO: 2020 (with short interruptions)
Occupation or position held	Vice Head of the Department
Name and address of employer	Civil Engineering and Architecture University of Catania (called Department of Architecture before 2013 and Department of Architecture and Urbanism before 2011)
Type of business or sector	University education and scientific research
Dates	FROM: 2020 TO: Present
Occupation or position held	Technical-Scientific Consultant for the energy and seismic renovation project of the Boscarino Building in Catania
Name and address of employer	University of Catania
Type of business or sector	Professional activity
Dates	FROM: 2019 TO: Present
Occupation or position held	Director of the Summer School
Name and address of employer	Engineers' Association of Catania
Type of business or sector	Professional and post-lauream education
Dates	FROM: 2018 TO: Present
Occupation or position held	Coordinator of international research group
Name and address of employer	University of Catania, "Ion Mincu" University of Architecture and Urban Planning of Bucharest, URBAN INCD INCERC – National Institute for Research and Development in Construction, Urban Planning and Sustainable Spatial Development, Bucharest.
Type of business or sector	Scientific research
Dates	FROM: 2012 TO: 2015
Occupation or position held	Coordinator and Teacher of Active Training Internship (TFA) – A016 group
Name and address of employer	University of Catania
Type of business or sector	Post-lauream education
Dates	FROM: 2013 TO: 2015
Occupation or position held	Coordinator and Teacher of Active Training Internship (TFA) – A016 group
Name and address of employer	University of Catania
Type of business or sector	Post-lauream education

Dates Occupation or position held Name and address of employer Type of business or sector	FROM: 2013 TO: present Member of the Corporation of Professors of PhD course on “Evaluation and Attenuation of Urban and Environmental Risks”. University of Catania. University education and scientific research
Dates Occupation or position held Name and address of employer Type of business or sector	FROM: 2020 TO: Present Member of the Topic Board and Guest Editor Journal Sustainability – MDPI, Bern Divulcation of knowledge in Building Construction and Architecture sectors

Education and training

Dates	1997
Title of qualification awarded	PhD course in Building Engineering: Technical Design and Production Building
Principal subjects/Occupational skills covered	Scientific research about the evolution of the historical building techniques in Sicily
Name and type of organisation providing education and training	University of Palermo.
Dates	1993
Title of qualification awarded	Engineering degree
Principal subjects/Occupational skills covered	Civil engineer, architectural survey and design, building technology, town-planning
Name and type of organisation providing education and training	University of Catania
Dates	1982
Title of qualification awarded	General Certificate of Education
Principal subjects/Occupational skills covered	Greek and Latin languages and literature, Italian literature, history, philosophy
Name and type of organisation providing education and training	High school Lyceum "N. Spedalieri" – Catania

Personal skills and competences

Other language

Self-assessment

European level

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1

Social skills and competences

He has participated in several International and National Scientific Meetings to report the results of his researches. He has been invited in numerous local meetings as a lecturer of refurbishment.

More important and recent presentations:

- ReUSO – XII Edition, Bergamo, 2024
- 14th International Conference on Architecture – ATINER - Athens, 2024
- *Colloqui.A.Te*, conferenza annuale della Società Scientifica di Architettura Tecnica ArTec, Palermo – 2024
- 5th BIMC - BUILDING AND MANAGEMENT INTERNATIONAL CONFERENCE Escuela Técnica Superior De Edificación, UPM (Spain) 2023
- *Valorisation and revitalization of historical architecture in fragile context. The open air laboratory of Aeolian Island*, VI Biennial of Refurbishment Architecture and Urbanism (BRAU), Florence 2021.
- *Design, development and prototyping of an innovative technology for multipurpose, sustainable, lightweight architectural units*, *Colloqui.A.Te*, Architecture Techniques Italian Annual Meeting, Bari – 2023
- *Sustainable, assistive, residential units for active ageing*, Metrology for living Environment (IEEE), Milan 2023
- *Innovative building technologies in the protection and valorisation of archaeological areas*, Building & Management International Conference (4 - BIMC) 2022
- *Protection and valorisation of archaeological areas through advanced technologies*, V Biennial of Refurbishment Architecture and Urbanism (BRAU), Florence 2021.
- *Innovative Building Technologies for Sustainable Architecture in Heritage Sites: The Revitalization project of the Ancient Greek Colony of Megara Hyblaea in Sicily*, 11th Annual International Conference on Architecture of Athens Institute for Education and Research ATENER Atene, 2021.
- *Introduction of the Round Table*, *Colloqui.A.Te*, Architecture Techniques Italian Annual Meeting, Catania – 2020.
- *ICARO - Innovative Cardboard Architecture Responsive Object*, Consultation Forum for Sustainable Energy in the Defence and Security Sector, Berlin, 2020.

Organisational skills and competences

He is coordinator for the University of Catania of several financed research projects.

Title: *ArchiCart Life House*

Project Leader: Tecnotenda srl

Partners: University of Catania, National Research Center (CNR), Format srl, Area srl.

Financing: program PO FESR Sicilia misura 1.1.5 – Innovative Materials

Budget: 1.285.000,00€

Duration: October 2023 – April 2025

Title: *TEST ARea per la transizione Ecologica - TESTARE*

Project Leader: University of Catania

Partners: Sielte SpA, SDG4MED Sustainable Development Goal for Mediterranean, Antemar soc. Coop., EFA - Fédération Européenne des Auto-Écoles, Teamdev Srl., Siel Tre, Be On, Autorità di Sistema portuale del Mar Tirreno settentrionale, Rete "Polo Meccatronica Valley".

Financing: Ecosistemi dell'Innovazione dell'Agenzia per la Coesione Territoriale

Budget UNICT: € 929.000
Duration: October 2023 – April 2025

Title: *An Early WArning System for cultural heritage - EWAS*
Project leader: Italian National Institute of GeoVulcanology (INGV)
Partners: University of Catania, University KORE of Enna, Meridionale Impianti spa, NTET Group spa, Colombrita Engineering srl, Lr srl
Financing: National Program for Research (PNR) 2015-2020 of Ministry of Instruction, of University and Research
Budget: € 8.346.578,02
Duration: October 2017 - January 2022

Title: *Modernizing Learning and Teaching for Architecture through Smart and Long-lasting Partnerships leading to sustainable and inclusive development strategies to Vitalize heritage Villages through Innovative Technologies - VVITA*
Project Leader: "Ion Mincu" University of Bucharest
Partner: University of Catania, Norwegian University of Science and Technology of Trondheim.
Financing: ERASMUS + KA2 (Cooperation for Innovation and the Exchange of Good Practices)
Budget: € 224.419.00
Duration: from October 2016 to December 2019

He belonged to several scientific and organizing committee of national and international meetings.

- Colloqui.A.Te, Architecture Techniques Italian Annual Meeting - Catania, 2020.
- ReUSO International Conference - Messina, 2018.
- Building and Management International Conference (BIMIC) - Madrid, 2018.
- Seismic and Energy Renovation for Sustainable Cities International Conference (SER4SC), Catania - 2018.
- VVITA Interim Meeting, Catania - 2019.
- 4th Biennial of Architectural and Urban Restoration (BRAU) - Catania, 2018.
- VVITA Short-Term Joint Staff Training Events - Catania, 2018.

Didactic skills and competences

Every year he plans exercises his courses (about 50 people). The students (in groups of 2-3 members) have to design a residential building (from architectural and technological point of view), under his direction.

He is tutor of four PhD thesis in the course in *Evaluation and Mitigation of Urban and Territorial Risks*:

- *Textile architecture – innovative building component for smart envelopes – cycle XXXIX*, Dott. Giovanni Gibilisco
- *Integration of thin photovoltaic cells in composite materials*, PhD – cycle XXXIII, Dott. Angelo Monteleone
- *Archicart – Corrugated Cardboard Architectures - cycle XXXII*, Dott. Dario Distefano
- *KREO - Kinetic Responsive Envelope by Origami - XXX ciclo*, del dott. Gianluca Rodonò

In 2024 he was Visiting Professor at Wayne State University in Detroit (USA).

In 2023 he had a series of seminars to the ION MINCU University of Bucharest on the innovative building technologies.

In 2019 and in 2015 he was nominated member of the Commission for the access exams to the Engineer's Association of Catania.

In 2019 he had a Masterclass in the Escuela Técnica Superior de Edificación of the Universidad Politécnica de Madrid on "Digital Architecture".

He was tutor of some international traineeships.

Technical skills and competences

The scientific activity of Vincenzo Sapienza is essentially divided in the following thematic areas.

INNOVATIVE BUILDING TECHNOLOGIES

He is inventor of KREO (Kinetic, Responsive Envelope by Origami) an innovative lightweight, folded smart building envelope; it was developed in collaboration with CNR of Catania and Meridionale Impianti group.

He is inventor of Archicart innovative building technology; it is based on alveolar panels in corrugated cardboard, which is covered by a patent (EP2927385A1). He has realized a test-box, to prototype it in real scale and to optimize its performance.

He is inventor of SETS (Self-Erecting Temporary Shelter), that is a temporary pavilion based on vacuumatics technology.

He has done a series of experimentation on an innovative reinforcement technology, based on FRP (Fiber Reinforced Polymers) nets, for lava stone masonries.

BUILDING SUSTAINABILITY

He works on the seismic and energy building renovation, with particular attention on the public estate of the Sixties and Seventies.

He is inventor of SLICE (Solar Lightweight Intelligent Component) that is a responsive shading off grid system (patent 2A19000025819); it was developed in collaboration with Meridionale Impianti group.

He studies energy sustainability of local historical architecture.

He carries out an experimentation on an innovative ceramic paint to verify its insulating proprieties in Mediterranean climate, both in winter and in summer.

HISTORICAL EVOLUTION OF THE BUILDING TECHNIQUES

He is interested in several buildings in Catania belonging to different historical periods.

He compares the different construction elements through analyses, both traditional and ND. He studies Industrial Archeology Buildings, especially located in rural contexts. He also investigates on the Rural Villages of Sicilian Latifundium, a group of buildings of the 1940s representing an important landscape resource.

He analyzes the geometry of complex vault surfaces, through the construction of a virtual model. This procedure was applied to various cases.

He won several prizes for his works.

- First prize in Archiprix 2015 with the degree thesis: "GREEN OVER THE BARS, an "open prison" in the ancient mines of Grottacalda".
- Finalist in the PNIcube 2014 –Ideas Award for Innovation, with ArchiCart project.
- First prize in the START CUP SICILY 2014 - business idea competition with ArchiCart business plan.
- Second prize in the THE BEST RESEARCH AWARD 2013, with PARAMETRIC ARCHITECTURE AND VACUUMATICS: project of lightweight SETS.
- Third prize in the OUTSIDE THE BOX - Low and High Technologies for Emergencies 2012, with PARAMETRIC ARCHITECTURE AND VACUUMATICS: project of lightweight SETS.

He has published about 110 works among articles, papers, chapters of book and monographies regarding the results of his research.

Complete list at:

https://www.iris.unict.it/browse?type=author&order=ASC&rpp=20&authority=rp08084#.X_3jJTmg_IU

Computer skills and competences

Very good knowledge in Office Windows. He conversant with drawing software (such as Autocad by Autodesk, CorelDRAW by Corel Co.), publishing (such as QuarkXPress by Quark), et al. graphics software.

He knows the main parametric design software (i.e. Grasshopper, Ladybug, Honeybee).

Catania, November 2024

