European curriculum vitae

Personal information

Surname / First name Address Telephone

> E-mail Web site Nationality Date of birth

> > Gender

Office: (+39) 095.7382531 Mobile: (+39) 320.1803401

via del Bosco, 60 - 95125, Catania (Italy)

SAPIENZA VINCENZO

FROM: 2019 TO: 2025

vincenzo.sapienza@unict.it http://www.dicar.unict.it/docenti/vincenzo.sapienza Italian March 5, 1967 Male

sustainability of contemporary architecture.

Department of Civil Engineering and Architecture.

University education and scientific research.

Researcher of Architecture Technology.

University education and scientific research.



Work Experience main activities

Dates Qualification

Main activities and responsibilities

Dates Occupation or position held

Italian National Scientific Qualification (ASN) as Full Professor, by 2025 FROM: 2006 TO: present 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

He carries out various studies about life cycle assessment, geometry and evolution of the historical

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

Name and address of employer University of Catania.

Type of business or sector

Dates Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Page 1 - Curriculum vitae of Sapienza Vincenzo © European Communities

University of Catania. Department of Architecture.

FROM: 1997 TO: 2006

SCIENTIFIC ACTIVITY

lectures and weekly exercises.

building techniques. TEACHING ACTIVITY

Work Experience

secondary activities

Dates Occupation or position held Name and address of employer Type of business or sector

> Dates Occupation or position held

Name and address of employer Type of business or sector

Dates Occupation or position held Name and address of employer

Type of business or sector

Dates Occupation or position held

Name and address of employer Type of business or sector

Dates

Occupation or position held Name and address of employer Type of business or sector

Dates Occupation or position held Name and address of employer

Type of business or sector

Dates

Occupation or position held Name and address of employer Type of business or sector

Dates Occupation or position held Name and address of employer Type of business or sector

Dates Occupation or position held

Name and address of employer Type of business or sector

Dates Occupation or position held Name and address of employer Type of business or sector

Dates Occupation or position held Name and address of employer

> Page 2 - Curriculum vitae of Sapienza Vincenzo

FROM: 2016 TO: Present Scientific Director Enabling Techniques for Architecture Laboratory of University of Catania (ETA–Lab). Scientific Research and University Education

FROM: 2020 TO: Present Responsible of Double Degree Agreement between "Laurea Magistrale a ciclo unico in Ingegneria Edile-Architettura" and "Grado en Edification" University of Catania and Polytechnic University of Madrid University education

FROM: 2009 TO: 2020 (with short interruptions) Vice Head of the Department Civil Engineering and Architecture University of Catania (called Department of Architecture before 2013 and Department of Architecture and Urbanism before 2011 University education and scientific research

FROM: 2020 TO: Present Technical-Scientific Consultant for the energy and seismic renovation project of the Boscarino Building in Catania University of Catania Professional activity

FROM: 2019 TO: Present Director of the Summer School Engineers' Association of Catania Professional and post-lauream education

FROM: 2018 TO: Present Coordinator of international research group 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. Scientific research

FROM: 2012 TO: 2015 Coordinator and Teacher of Active Training Internship (TFA) – A016 group University of Catania Post-lauream education

FROM: 2013 TO: 2015 Coordinator and Teacher of Active Training Internship (TFA) – A016 group University of Catania Post-lauream education

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

FROM: 2020 TO: Present Member of the Topic Board and Guest Editor Journal Sustainability – MDPI, Bern Divulgation of knowledge in Building Construction and Architecture sectors

FROM: 2014 TO: Present Member of the Editing Committee Journal TECNICA E RICOSTRUZIONE - Engineers' Association of Catania

Type of business or sector

Dates Occupation or position held Name and address of employer

Type of business or sector

Dates

Occupation or position held Name and address of employer Type of business or sector

Dates

Occupation or position held Name and address of employer Type of business or sector

Dates

Occupation or position held Name and address of employer Type of business or sector

Dates

Occupation or position held Name and address of employer Type of business or sector

Dates

Occupation or position held

Name and address of employer Type of business or sector Divulgation of knowledge in Building Construction and Architecture sectors

FROM: 2015 TO: 2018 Associated Editor Journal TeMa - Studies on Architectural Engineering - Italian Scientific Society of Architectural Engineering, Bologna Divulgation of knowledge in Building Construction and Architecture sectors

FROM: 2015 TO: Present

Member of the Scientific Committee AS Multidisciplinary Research Journal – AS Publisher. Divulgation of knowledge in Building Construction and Architecture sectors

FROM: 2013 TO: present Member of the Scientific Committee Journal MODULO - Be-Ma Editor, Milan Divulgation of knowledge in Building Construction and Architecture sectors

FROM: 2009 TO: 2013

Component of Directors' Board Foundation of Engineers' Association of Catania Professional education

FROM: 2013 TO: 2018

Member of the Corporation of Professors Scuola Superiore di Catania Higher school of excellence of Catania's University

FROM: 2005 TO: 2008 Member of Corporation of the Professors of PhD course on "Architectural, urban and environmental design and refurbishment" University of Catania University education and scientific research

Education and training

1997

Dates

Title of qualification awarded Principal subjects/Occupational skills covered

> Name and type of organisation providing education and training

Dates Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organisation providing education and training

Dates Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organisation providing education and training University of Palermo.

1993

Engineering degree Civil engineer, architectural survey and design, building technology, town-planning

PhD course in Building Engineering: Technical Design and Production Building

Scientific research about the evolution of the historical building techniques in Sicily

University of Catania

1982

General Certificate of Education Greek and Latin languages and literature, Italian literature, history, philosophy

High school Lyceum "N. Spedalieri" - Catania

Personal skills and competences

Other language Self-assessment European level

English

Social skills and competences

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

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:

- 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.
- Shading innovative technology system, European Photovoltaic Solar Energy Conference and Exhibition EU PVSEC 2020, Neaples, 2020.
- Final report of UNICT activities, VVITA Final Meeting, Trondheim, 2019.
- Intermediate report of UNICT activities, VVITA Interim Meeting, Catania 2019.
- Introduction, VVITA Short-Term Joint Staff Training Events Catania, 2018.
- Seismic and energy renovation: an innovative approach to historic preservation, Seismic and energy renovation for sustainable cities, Catania, 2018.
- Reuse and preservation of industrial archaeology in rural landscape, Sicilian peculiarity, The Importance of place conference, Sarajevo, 2017.
- Proposal of UNICT activities, VVITA Kick Off Meeting, Bucharest, 2017.
- Kinetic Responsive Envelope by Origami KREO, Colloqui.A.Te, Architecture Techniques Italian Annual Meeting, Bologna - 2016.
- *Kinetic Architecture and Foldable Surface,* 5th Annual International Conference on Architecture of Athens Institute for Education and Research ATENER Atene, 2015.
- Thermal performance of existing buildings in Mediterranean climate area, Changing needs, adaptive buildings, smart cities, MILAN, 2013.
- Il Palazzo Centrale dell'Università. Lava, Earthquake and Barroque presentation of the University of Catania through its main building, jornada precongressual del BIMIC-2018, Madrid - 2018.
- Archicart business plan, Premio Nazionale per l'Innovazione, Sassari 2014.
- Riqualificazione energetica dell'edilizia abitativa nel territorio etneo, 21° SAEM, Catania 2013.
- Thermal performance of existing buildings in Mediterranean climate area, 39th IAHS, Milan, 2013.
- Spontaneous architecture and energetic sustainability: the Aeolian houses of Filicudi Isle, ZEMCH-12, Glasgow – 2012.
- The rural architecture of the Duce: the villages of Sicilian Latifundium, 1-ICAUD, Tirana 2012.
- La figura del progettista strutturale nell'ambito della Storia dell'Architettura, 4 AISI, Napoli 2012.
- The anti-seismic system of historical buildings of Catania, Colloqui.A.Te, Architecture Techniques Italian Annual Meeting, Messina 2009.

Organisational skills and	He is coordinator for the University of Catania of several financed research projects.			
competences	Title: <i>ArchiCart Life House</i> 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: March 2021 – September 2023			
	Title: Solar Lightweight Intelligent Component for Envelopes - SLICE Project Leader: University of Catania. Partners: "Ion Mincu" University of Bucarest, Meridionale Impianti spa. Financing: PON RI 2014-2010, Axes 1 - Action 1.1 Budget: 52.000€ Duration: February 2018 – April 2021			
	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 architectonical and technological point of view), under his direction.			
	For his students, he organises internships with other professors, and training visits. More recent activities:			
	 Intensive Programme VVITA in Delta Danuble – 2019. Training visit of some building sites and buildings of Renzo Piano Building Workshop (RPBW), in Genova and in Paris - 2019. Intensive Programme VVITA in Aeolian Islands – 2019, with final exhibition. Intensive Programme VVITA in Lofoten Islands – 2019, with final exhibition. Training visit of Madrid and participation in some seminaries at Universidad Politécnica de Madrid – 2018. 			
Page 6 - Curriculum vitae of	© European Communities			

Sapienza Vincenzo

	 Training visit Bucarest and Transilvania, participation in some seminaries at Ion Mincu University, organization of the final exhibition Bucharest_2k17 – 2017. Research visit in Malta – 2016. Training visit to the Made-Expo of Milan – 2015. Training visit to the factory of cement and concrete BUZZI – 2015. "OpenING" open day of the Faculty of Engineering – 2014 Training visit to the Torre del Grifo sporting center – 2014. Internships eng. Paolo Colonna of RPBW – 2013. Exibition "Entropia Negativa / Thesis" – 2013. Training visit to the admirable examples of contemporary architecture in Vittoria – 2013. Design competition "Entropia Negativa" – 2012. Training visit to the Rural Villages of the Sicilian Latifundium – 2012. Internships arch. Maria Giuseppina Grasso Cannizzo – 2012. Internships arch. Lorenzo Carmassi – 2012.
	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".
	In 2017 he had a series of seminaries to the ION MINCU University of Bucharest on the innovative building technologies.
	In 2015 he was guest lecturer in the Master in "Climate and Built Form" of NTNU (Norwegian University of Science and Technology) of Trondheim.
	He was tutor of some international traineeships.
	List of the more recent ones: - Aneta Wilczyńska, project "Dobry staż – pewna przyszłość" 2017 - Aleksandra Wątroba, project "Dobry staż – pewna przyszłość" 2017 - Ali Rammal, MedMobil program 2016.
Technical skills and competences	The scientific activity of Vincenzo Sapienza is essentially divided in the following thematic areas.
	 <i>INNOVATIVE BUILDING TECHNOLOGIES</i> 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.
Page 7 - Curriculum vitae of	© European Communities
Sapienza Vincenzo	

	 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 was tutor of three PhD students and he is tutor of a post-doc student.
	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. First prize in Academy Gioena 1996 award for young researchers. First in the competition for the grant offered by the Foundation Rosario Toscano-Scuderi in 1996. 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=authorℴ=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) In order to advertise his activities, he designs internet pages, posters and brochures. He was Web Site Administrator of his department.
Driving licence	Yes, since 1985.

Catania, February 2021

Vineenzo Sapienza