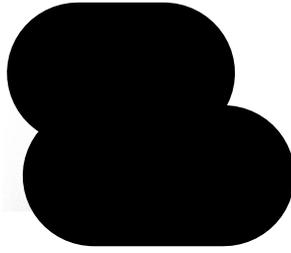


# EUROPEAN CV FORMAT



## PERSONAL INFORMATION

Name **MARCO ANGELOSANTI**

Web site – Portfolio <https://sites.google.com/view/marcoangelosanti>  
Nationality Italian  
Place and date of birth [REDACTED]

This document is organized to split my work, academic, research and teaching activity. Indeed, I believe it is essential to translate research into professional knowledge. Scientific publications, skills, applications and software used are also presented.

## WORK EXPERIENCE

- Date (from - to) 03/2022 - ONGOING
- Activity/Role **BIM and R&D Engineer**
- Activities and responsibilities BIM automation (Civil), modeling (Civil) and coordination (Civil, MEP, Site) of a 48MW TIER 3 **Data Center** in Magenta (Milan);  
Research and development in the field of **Digital Survey** with **drone photogrammetry, Laser scanning and Matterport** solutions. **Point cloud survey management** all new internal jobs. **Due Diligence management** related to **Digital Survey**;  
Research and Development in the field of **digital automation**, with Visual Programming Language (VPL) script for **Dynamo** and **QGIS graphic modeler**;  
Development of **GIS script for automatic LEED credits** (High Priority Site and Surrounding Density) computation.  
• Employer **LOMBARDINI22 S.P.A.**
- Date (from - to) 07/2021 - 02/2022
- Activity/Role BIM Engineer
- Activities and responsibilities Digital Survey, BIM model, refurbishment project of Chiesa S. Pancrazio (Isola Farnese).  
• Employer DIOCESI DI SANTA RUFINA
- Date (from - to) 03/2021 - 07/2021
- Activity/Role **J1** short-term consultation
- Activities and responsibilities **IR** (InfraRed) images analysis of **UMass Campus roofs** to detect subsurface defects causing **heat loss**. Reconstruction of **photogrammetric point clouds** from IR images acquired using **UAV** (Unmanned Aerial Vehicle). Filling of relevant information (**IR orthomosaic**) in **GIS** models, easily shared with sponsor agency.  
• Employer RIST INSTITUTE FOR SUSTAINABILITY AND ENERGY AT UMASS LOWELL
- Date (from - to) 11/2020 - 01/2021
- Activity/Role BIM Engineer
- Activities and responsibilities BIM model, refurbishment project of Chiesa S.S Immacolata (San Felice Circeo)  
• Employer VICARIATO DI ROMA

- Date (from - to) 02/2020 - 02/2021
- Activity/Role BIM Engineer
- Activities and responsibilities
  - 2020-2021\_ **Compendium of Villa Albani-Torlonia**, in particular Casino Nobile (Basement with underground connections, Ground Floor, Noble Floor, Mezzanine Floor and Attics), Leda Gallery, Hemicycle of the Kaffeehaus, Canopus Gallery, Billiard Gallery, Heirs' Houses, Caretaker's House, Gipsoteche, Semi-destroyed Temple (Rome) - *Client Fondazione Torlonia*
    - Estimation of Prince Alessandro Torlonia hereditary estate assets consistency (PROCEDURA R.G. N. 967/2018 SUCCESSIONE PRINCIPE TORLONIA);
    - Cadastral surveys;
    - Processing of point clouds and orthophotos (TLS + DRONE photogrammetry);
    - Census of the **artistic patrimony of Villa Albani** on the basis of the existing cataloguing work, as Morcelli-Fea-Visconti (1869) for the Casino Nobile;
    - Elaboration of BIM models for the generation of plans, elevations and sections of all the buildings of the compendium of Villa Albani;
    - HBIM** model at **LOD 350** (BIM Forum 2019) of the **Kaffeehaus hemicycle** for the **structural investigation of the barrel vault** and integral refurbishment;
  - 2020-2021 "Velino" 1.50 km Viaduct along **SS4** (Rieti); "Collevalenza" 0.75 km tunnel along the SS3bis (Todi); "Monte Lora" 0.40 km, "Su Cabriolu" 0.15 km, "Lantini" 0.10 km tunnel along **SS387** (Ballao-San Vito, Sud Sardegna province); "San Francesco" 0.90 km tunnel along **SS131** (Nuoro) - *Client BRENG, Diamonds srl*
    - Processing of **point clouds** (TLS + UAV + GNSS) and **BIM** model for plan and hectometric sections;
    - Processing of the **topographic surface** from point cloud, semi-automatically cleaned from vegetation;
    - Study of the **strain pattern** with **C2M** (Cloud to Model) comparison between point cloud and **BIM** model.
  - 2020\_ Building complex (96 apartments) delimited by via della Lungara (starting from Porta Settimiana), via Corsini, Largo Cristina di Svezia in Trastevere (Rome) - *Client Corsini Immobiliare s.r.l., Lungara Immobiliare s.r.l., Farnesina Immobiliare s.r.l., Settimiana Immobiliare s.r.l.*
    - Processing of point clouds (TLS) and **HBIM** model
    - Project of restoration and conservative rehabilitation of facades;
    - Technical report on technical prescriptions for restoration work.
  - 2020\_ **Palazzo Torlonia** in via della Conciliazione (RM) - *Private client*
    - Processing of TLS orthophotos for an occupation request of public land.
  - 2020\_ Nine rural houses and 20 ha land in Gubbio (PG) - *Private client*
    - Processing of point clouds and orthophotos (TLS + UAV);
    - Processing of orthophotos, DTM and topographic surface, semi-automatically cleaned from vegetation;
  - 2020\_ Info-Point ENEL at the former head quarters of Isola Serafini in Monticelli D'Ongina (Piacenza) - *client Atelier A studio, for ENEL GREEN POWER.*
    - Processing of point clouds (TLS) of both the **As-Design** and **As-Built**;
    - Elaboration of the ARC-STR BIM model of both the As-Design and As-Built;
  - 2020\_ **Villa Tigli** (former Villa **Zeffirelli**, now **Berlusconi**) (Roma) - *client Idra Immobiliare*
    - Processing of point clouds (TLS + APR) for plans, elevations and sections;
  - 2020\_ Calls for the assignment of **seismic vulnerability assessment, energy diagnosis**, geometric, architectural, technological and systems survey to be delivered in BIM.
  - 2020\_ Beach facilities in Fregene - *Private client*
    - New layout of outdoor dining areas to comply with COVID-19
  - 2020\_ Villa in Selva Nera (Rome) - *Private client*
    - BIM elaboration of the Executive Project (ARC+STR);
- Group BIMlab Group s.r.l.

- Date (from - to) 01/2017 - 08/2018
- Activity/Role Precision engineering and mechanical design

- Activities and responsibilities
  - Employer

**3D optimization and printing in PLA and TPU** prototypes and detail elements  
TopLayer 3D printing

## RESEARCH AND TEACHING ACTIVITIES

- Date
- Job or positions held
- Activities and responsibilities

09/2019 → 12/2022

### Research Assistant

**PRIN** (Progetto di Rilevante Interesse Nazionale) **BE S2ECURe - (make) Built Environment Safer in Slow and Emergency Conditions through behaviorally assessed/designed Resilient solutions**

Call 2017 Prot. 2017LR75XK funded by MIUR

PI: Prof. Enrico Quagliarini (UNIVPM), Prof. Edoardo Currà (UNIRM), Prof. Graziano Salvalai (POLIMI), Prof. Fabio Fatiguso (POLIBA), Prof. Giovanni Mochi (UNIPG).

Research activities concerning vulnerability factors of morphological systems of open space and their implementation in BIM and GIS for rapid urban vulnerability assessment.

- Funding
- Employer

- Activities

- Date
- Job or positions held
  - Project

01/2021 → 07/2021

### PhD Visiting Researcher

**Seismic Vulnerability Assessment of Open Spaces in Built Environment through Motion Magnification - (VSAM)<sup>2</sup> - Valutazione della Vulnerabilità Sismica degli Spazi Aperti nell'Ambiente costruito attraverso il Moto Magnificato**

Self-funded with EU Call for Young Researchers 2020

University of Massachusetts Lowell, Sapienza University of Rome

Combination of **optical techniques** for Structural Health Monitoring (**SHM**)

implemented in **BIM**. Lab tests have been performed on an aluminum frame structure,

monitored with accelerometers, ZenMuse IR-cam, Sony RX High-Speed camera, and two

**Photron SA2 High-Speed cameras for 3D-DIC** (Digital image Correlation) and **MM**

(**Motion Magnification**) combination analysis.

- Funding
- Employer
- Activities

- Date
- Job or positions held
  - Project

01/2021 → 07/2021

### Visiting Research Assistant

**ONR** (Office of Naval Research) GRANT - **3D Assessment of Energy Infrastructure Systems via Optical and Infrared Image Scans**

Scientific coordinator: Prof. Christopher Niezrecki, Prof. Alessandro Sabato

University of Massachusetts Lowell

**IR** (InfraRed) pictures acquired from an **UAV** (Unmanned Aerial Vehicle) have been used for **photogrammetric point cloud** reconstruction to detect subsurface defects causing

**heat loss** and sub-surface **structural damages**. Cloud2Cloud (**C2C**) distance between IR

point cloud and visible spectrum point cloud and Cloud2Model (**C2M**) distance between

IR cloud and **BIM** model have been performed to store and analyze data.

- Employer

- Activities

- Date
- Job or positions held
- Activities and responsibilities

02/2019 → 12/2020

### Research Assistant

Scientific collaboration agreement between CRITEVAT and La Sapienza: **BIM4H&W** (BIM for Health and Wellbeing) project Lazioinnova "Creatività 2020"

Scientific coordinator: Prof. Edoardo Currà

CRITEVAT - Faculty of Engineering, La Sapienza University of Rome

Support for research with reference to the state-of-the-art analysis behind **BIM**

applications, highlighting the digital services and technologies for surveying, analyzing and

characterizing existing buildings with geometric and informative parameters.

- Employer

- Activities

- Date
- Job or positions held
- Activities and responsibilities
  - Employer
  - Activities or field

02-05/2021

### Teaching Assistant

Teaching Assistant of **SENSORS** (Prof. Alessandro Sabato)

**Department of Mechanical Engineering – University of Massachusetts Lowell**

MECH 5195

- Date
- Job or positions held
- Activities and responsibilities
  - Employer

04/2020

### Teaching Assistant

Speaker for PhD in Engineering-based Architecture and Urban Planning lessons

DICEA (Department of Civil Environmental Construction Engineering) - Faculty of

- Activities or field
    - Date
    - Job or positions held
  - Activities and responsibilities
    - Employer
  - Activities or field
    - Date
    - Job or positions held
  - Activities and responsibilities
    - Scientific coordinator
    - Employer
- Engineering, La Sapienza University of Rome  
**Integrated photogrammetric and TLS (Terrestrial Laser Scanner) survey, HBIM, Scan-to-BIM, parametric BIM for structural use.**
- 10/2018 → ongoing  
**Teaching Assistant**  
 Teaching Assistant of Projects for Building **Refurbishment** (Prof. Ing. Edoardo Currà) CRITEVAT (Rieti Centre for Engineering Research for the Protection and Valorization of the Environment and Territory) and DICEA (Department of Civil Environmental Construction Engineering) - Faculty of Engineering, Sapienza University of Rome ICAR/10 Building Architecture
- 08/2018 → 2020  
**Research Assistant**  
 Scientific collaboration agreement between CRITEVAT and The Municipality of **Fiamignano 2018-2020 "Strategies to support seismic vulnerability assessments"** Prof. Edoardo Currà  
 CRITEVAT (Rieti Centre for Engineering Research for the Protection and Valorization of the Environment and Territory) - Faculty of Engineering, Sapienza University of Rome

## EDUCATION

- Date (from - to)
  - Title of the qualification
  - Education / training institution
  - Theme
- 10/2018 → 05/2022**  
**PhD in Engineering-based Architecture and Urban Planning**  
 DICEA (Department of Civil, Construction and Environmental Engineering) - Faculty of Civil and Industrial Engineering, La Sapienza University, Rome  
**Open spaces in built environment. Integrated digital tools for seismic risk description.**
- Date (da – a)
  - Titolo della qualifica
- Istituto di istruzione/formazione
- 01/2021 → 07/2021**  
**PhD visiting Scholar**  
 University of Massachusetts Lowell – 1, University Avenue, Lowell, MA, 01854,  
**Department of Mechanical Engineering**  
**SDASL – Structural Dynamics & Acoustic Systems Laboratory**
- Date
  - Qualification
- Education / training institution
- 02/2019  
 Qualification to practice as an PE (Professional Engineer). Sect. Civil and Environmental Faculty of Engineering, La Sapienza University of Rome
- Date (from - to)
  - Qualification
- Education / training institution
- Title of the thesis  
 Supervisors  
 Keywords  
 • Vote
- Weighted average  
 Level in the National rankings
- 11/2012 → 10/2018  
**MS in Building and Architectural Engineering**  
 Faculty of Civil and Industrial Engineering, La Sapienza University of Rome  
**Survey, structural analysis and refurbishment of villa Palma-Guazzaroni in Terni**  
 Prof. Ing. Edoardo Currà, Prof. Arch. Marco Carpicci, Prof. Ing. Domenico Liberatore  
*Survey, HBIM, TLS (Terrestrial Laser Scanner), Photogrammetry, seismic assessment, refurbishment*  
**110/110 cum laude**  
 30.05/30 (presentation 110.20/110)  
 LM-4 C.U. - MS (five-year)
- Date (from - to)
  - Qualification
- Education / training institution
- Graduation vote
- 2007 – 2012  
 High school diploma  
 High School 'Galileo Galilei', TERNI (TR)  
 100/100

## OTHER TRAINING ACTIVITIES

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- Date (from - to) 07/2020
  - Activity International Summer School **AfterTheDamages**
- Key themes/skills Analysis, mitigation, and risk management; Resilience, governance, legal, socio-economic issues and post-disaster participatory actions supporting communities with a resilient attitude; Documentation, digital survey, monitoring, digital modeling for the conservation of Cultural Heritage; Aware design and technologies applied to the conservation of the historic built heritage.
- Scientific coordinator Marcello Balzani, Riccardo Dalla Negra, Roberto Di Giulio
- Education / training institution Università degli studi di Ferrara; Università degli Studi di Parma; Università degli Studi di Modena e Reggio Emilia; Agenzia per la Ricostruzione Sisma 2012; MiBACT.
- Date (from - to) 03-05/2020
  - Activity **DYNAMO** and **REVIT** (ARC+MEP) BIMon Ecosystem
- Key themes/skills Theoretical and practical knowledge of computational design in DYNAMO and REVIT environment
- Scientific coordinator Arch. Claudio Vittori Antisari - Ing. Emmanuel Sedran
- Education / training institution BIMon srl – Strategie digitali srl.
- Date (from - to) 03/2020
  - Activity **UAV Pilot Certificate (Open A1/A3 and Open A2)**
  - Serial number ITA-RP-0170b5dac97b | ESP-RP-000000059686
- Education / training institution EASA (ENAC | AESA)
- Date (from - to) 05/2019
  - Activity **PYTHON** lab.
- Main topics / professional skills acquired Basic knowledge of the Python language, both with theoretical lessons and with practical tutorials.
- Scientific coordinator LUG Sapienza
- Education / training institution Faculty of Information Engineering, Computer Science and Statistics, La Sapienza University of Rome
- Date (from - to) 02/2019
  - Activity Workshop "Computational Design with **REVIT** 2019 and **DYNAMO**"
- Main topics / professional skills acquired Creating parametric families in Revit, Dynamo for Revit, defining and managing nodes in Dynamo
- Scientific coordinator Prof. Mark Clayton
- Education / training institution Faculty of Engineering, Rome; Texas A&M University
- Date (from - to) 02/2019
  - Activity Workshop "Tetris on a Bridge, cellular automata and **agent-based design**"
- Main topics / professional skills acquired Using **NetLogo** software for agent modeling, with deepenings on **GIS** integration
- Education / training institution La Sapienza University of Rome; TU WIEN (Technische Universität Wien); Daad Group (Digital augmented architectural Design)
- Date (from - to) 11/2016
  - Qualification Official McNeel Certificate
- Main topics / professional skills acquired Advanced course "COMPLEX MODELING for **Grasshopper**" (for **Rhino**) to explain the potential of Nurbs and Mesh modeling of complex shapes through generative algorithms.
- Education / training institution McNeel – Drawing4design

## PUBLICATION

- J JOURNAL PAPERS  
C CONFERENCE PROCEEDINGS  
B BOOK CHAPTERS  
I In press
- J 1. **Angelosanti M.**, Currà E., Sabato A. (2022) *BIM oriented applications of structural health monitoring based on magnified digital image correlation point-clouds*. In: *Automation in Construction*
  - B 2. **Angelosanti M.**, (2022) *HGIS per una lettura dell'evoluzione morfologica del letto del fiume Nera*. In: Toppetti F. *Restart Nera*, Mondadori
  - J 3. Dabetwar S., Kulkarni N. N., **Angelosanti M.**, Niezrecki C., Sabato A. (2022) *Sensitivity Analysis of Unmanned Aerial Vehicle-borne 3D Point Cloud Reconstruction from Infrared Images*. In: *Remote sensing submission ISPRS Journal of Photogrammetry and Remote Sensing*
  - C 4. Fatiguso F., Bruno S., Cantatore E., Currà E., D'Amico A., Russo M., **Angelosanti M.**, Bernardini G., Mochi G., Salvalai G., Quagliarini E. (2022) *Risk communication and awareness of the built environment threatened by disasters with digital models*. In *Rehabend 2022*. Granada, Spain
  - C 5. Rosso F., Bernabei L., Bernardini G., Russo M., **Angelosanti M.**, Currà E., Quagliarini E., Mochi G. (2022) *Urban morphology parameters towards multi-risk scenarios for squares in the historical centers: analyses and definition of square typologies and application to the Italian context*. In: *Journal of Cultural Heritage*
  - J 6. Currà E., D'Amico A., **Angelosanti M.** (2022) *HBIM between Antiquity and Industrial Archaeology: Former Segrè Papermill and Sanctuary of Hercules in Tivoli*. In: *Sustainability*
  - C 7. **Angelosanti M.**, Dabetwar S., Currà E., Sabato A. (2021) *3D-DIC analysis for BIM-oriented SHM of a lab-scale aluminium frame structure* In: *J. Phys.: Conf. Ser. 2041 012009*
  - J 8. D'Amico A., Russo M., **Angelosanti M.**, Bernardini G., Vicari A., Quagliarini E., Currà E. (2021) *Built Environment Typologies Prone to Risk: A Cluster Analysis of Open Spaces in Italian Cities*. In: *Sustainability*
  - C 9. **Angelosanti M.**, Bernabei L., Russo M., D'Amico A., Cantatore E., Bernardini G., Fatiguso F., Salvalai G., Mochi G., Quagliarini E., Currà E. (2021) *Towards a multi-risk assessment of Open Spaces and its users: a rapid survey form to collect and manage risk factors*. In: *International Conference on Sustainability in Energy and Buildings SEB 2021*. Split, Croatia
  - C 10. D'Amico A., Russo M., Bernabei L., **Angelosanti M.**, Cantatore E., Bernardini G., Fatiguso F., Salvalai G., Mochi G., Quagliarini E., Currà E. (2021) *Verso una valutazione multi-rischio per la sicurezza dell'ambiente costruito e dei suoi utenti: una scheda per la definizione di scenari negli spazi aperti urbani* In: *Colloqui.AT.e 2021 Progetto e Costruzione Tradizione ed innovazione nella pratica dell'architettura*. Salerno, Italy
  - J 11. Russo M., **Angelosanti M.**, Bernardini G., Currà E., Quagliarini E. (2020) *Factors Influencing the Intrinsic Seismic Risk of Open Spaces in Existing Built Environments: A Systematic Review*. In: *Sustainability* , 14(1), 42; <https://doi.org/10.3390/su14010042>
  - J 12. Currà E., D'Amico A., **Angelosanti M.** (2021) *Representation and knowledge of historic construction: HBIM for structural use in the case of villa Palma in Terni*. In: *TEMA 2020*. DOI: 10.30682/tema0701b
  - B 13. **Angelosanti M.** (2021) *L'industria dall'alto*. In: Currà E., Covino R. *La memoria dell'industria. Patrimoni della produzione della provincia di Rieti*, Mondadori, p 154-159, ISBN: 978-88-918-3073-9
  - C 14. **Angelosanti, M.** (2020) *Finalità dell'applicazione del Motion Magnification ai modelli HBIM*. In: *Colloqui.AT.e 2020 New Horizons for Sustainable Architecture*. Catania, Italy

- C 15. D’Amico A., Currà E., **Angelosanti M.**, Colò G. (2020) *BIM 7D: La dimensione della sostenibilità nei sistemi BIM in ottica di Healthy Buildings*. In: *Colloqui.AT.e 2020 New Horizons for Sustainable Architecture*. Catania, Italy
- C 16. Bernabei L., Mochi G., Bernardini G., Quagliarini E., Cantatore E., Fatiguso F., **Angelosanti M.**, Currà E., D’Amico A., Russo M. (2020) *Human behaviours and BE investigations to preserve the heritage against SUOD disasters*. In: *H2020 7° International Conference on Heritage and Sustainable Development*. Coimbra, Portugal
- B 17. **Angelosanti M.**, Hueto Escobar A., Menapace C., Ugliotti F.M., De Marco R. (2020) *Conservation of historical built environment and risk assessment through the use of innovative models of digital survey and data collection*. In: Maietti F., Montuori M., Raco F., Pescosolido C., “After the Damages” Internation. Summer School. In: *Paesaggio Urbano*, Maggioli, p 53
- C 18. Russo M., **Angelosanti M.**, Bernardini, G., Cantatore E., D’Amico A., Predari G., Currà E., Fatiguso F., Mochi G., Quagliarini E. (2020) *Morphological systems of open spaces in built environment prone to Sudden-onset disasters*. In: *International Conference on Sustainability in Energy and Buildings SEB 2020*. Split, Croatia
- B 19. **Angelosanti, M.** (2019) *Sintesi di conoscenza e rappresentazione della costruzione storica, il caso di villa Palma a Terni*. In: Cavallera HA (ed) *L’unica via è il pensiero*. Intermedia Edizioni, Terni, pp 97–113  
Presentazione del libro: 21 novembre 2019 presso l’Archivio di Stato di Terni
- C 20. Currà E., **Angelosanti M.**, D’Amico A. (2019) *Integrated Digital Tools for Earthquake Risk Reduction in Historic Urban Landscape of Central Italy*. In: *4th Digital Landscape International Symposium*. Nanjing
- C 21. Currà E., D’Amico A., **Angelosanti M.** (2019) *HBIM per la conoscenza e la rappresentazione della costruzione storica. Il caso di villa Palma-Guazzaroni a Terni*. In: *Colloqui.AT.e 2019 Ingegno e costruzione nell’epoca della complessità*. Torino, Italy, pp 628–637
- C 22. Carpicci, M., **Angelosanti, M.** (2019). *Dal rilievo alla ricostruzione storica, il caso di villa Palma-Guazzaroni*. In: *3D Modeling & BIM 2019*. Roma: DEI s.r.l. tipografia del genio civile. ISBN 978.88.496.1942.3

## SKILLS

### LANGUAGE

### ITALIAN

### OTHER LANGUAGES

**French**  
**English**

COMPRESIONE				PARLATO				SCRITTO	
Ascolto		Lettura		Interazione orale		Produzione orale			
B2	Autonomo	B2	Autonomo	B2	Autonomo	B2	Autonomo	B2	Autonomo
B2	Autonomo	C1	Avanzato	C1	Avanzato	B2	Autonomo	B2	Autonomo

### CERTIFICATES

**French**

**DEL**F (Diplôme d’études en langue française) - Ministère de l’éducation nationale de France, **2006** – Liv. europeo: A2

**English**

**iTep** (International Test of English Proficiency) Academic-Plus, **2020** – Liv. Europeo: C1

**FCE** (First Certificate in English) - University of Cambridge ESOL Examinations, **2011** – Liv. europeo: B2

### ARTISTIC SKILLS

Hand drawing ability, matured during studies and for hobby.

LICENSE

Car (B)  
UAV Pilot Certificate (Open A1/A3 + Open A2)

## APPLICATION AND SOFTWARE

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- **BIM Authoring**
    - **BIM Tools**
    - **GIS**
  - 2D/3D modeling
  - Graphics and editing (sounds, images, videos)
    - Office package
    - Programming
  - Survey (photogrammetric and laser scanner)
  - Visual inspection, modal analysis and FEM
    - 3D printing
- Revit, Allplan**  
**Dynamo**, Robot Structural Analysis, Edilus, Primus, Termus, Insight  
**qGIS**, ArcGIS, Infracore  
Grasshopper, Rhinoceros, Autocad, Sketchup  
Suite Adobe (Photoshop, Illustrator, Premiere pro, After Effects)  
Excel, Word, PowerPoint, OneNote  
MATLAB, Python  
JRC 3D Reconstructor, Agisoft Metashape, Reality Capture, Pix4D, Scene, Cyclone, Geomagic Design X, CloudCompare  
Aramis, Photron, EDM suite by Crystal Instruments, Robot Structural Analysis, Inventor  
Nastran, RDI technologies.  
Ultimaker Cura, Meshlab, Meshmixer

## TITLES/ AWARDS

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- 2021 A.I.V.E.L.A member (Italian Association of LAser VElocimetry)
- 2020 **Winner of the call "Young researchers" within the projects of Internationalization of Sapienza University of Rome, for a research period of 6 months at the University of Massachusetts Lowell (Massachusetts, USA)**  
Award and scholarship  
Organizing institution: Sapienza University of Rome
- 2019 **Winner of the call "Engineering and Innovation 2019" named after Alberto Franceschini**  
Award and scholarship  
Organizing authority: Engineers Order of Terni  
Ranking: 1st
- 2019 **Winner of the call "Research Startup Projects".**  
Funding allocation  
Title of project funded "GeoBIM Scenarios for Open Spaces in Built Environment Vulnerability Assessing through Visual Vibrometry."  
Organizing authority: La Sapienza University of Rome
- 2019 AIPAI member (Italian Association for Industrial Archaeological Heritage)
- 2019 ADSI Lazio member (Italian Historical Homes Association, Lazio headquarters) as a prize for participation in the competition for Villa Mergè refurbishment
- 2019 Competition for Villa Mergè refurbishment  
Competition  
ADSI – Restoration of Villa Mergè, Frascati  
Title of merit
- 10/2018 **Winner of a Doctoral Fellowship in Engineering-based Architecture and Urban Planning**  
Scholarship  
**La Sapienza University of Rome (3 years)**
- 2016 Evolo Skyscraper Competition 2016  
Competition  
eVolo - architecture and design journal focused on technological advances, sustainability, and innovative design for the 21st Century.
- 2012 **Best Scientific Thesis Award 'Prof. BORGHETTI CARLA'**  
Award and scholarship  
Organizing authority: Terni's Galileo Galilei High School  
Ranking: 1st

- 19/03/2011  
Prize International Mathematical Games Championships  
Bocconi University, Italian Semi-Finals and access to the Italian Finals of the  
'International Mathematical Games Championships' of 14/05/2011  
Ranking: 2<sup>nd</sup>
- 2011  
Prize Chemistry Olympics  
Provincial finals  
Ranking: 1st
- 2010  
Prize Mathematics Olympics  
University of Perugia, Pentima  
Ranking: 3rd
- 18/03/2006  
Prize International Mathematical Games Championships  
Bocconi University, Italian Semi-Finals of 'International Mathematical Games  
Championships'  
Ranking: 2nd
- 2005  
Prize Autumn Mathematical Games  
Bocconi University, Mathematical Games Championships  
Ranking: 1st

## CONFERENCES AND SEMINARS

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- 2020-2021 Presentation of the degree program in Building and Architectural Engineering; Coaching  
activities for freshmen at Sapienza;
- 10-11/04/2019 Speaker at the conference "**3DMODELING&BIM**", in Faculty of Architecture "Valle  
Giulia", La Sapienza University of Rome
- 17/01/2019 **Speaker** at the conference "**Villa Palma - Study of the building and proposal for  
recovery**", held in the main hall of the State Archives of Terni. Additional speakers Prof.  
Ing. Edoardo Currà, city councillor Michele Rossi.

### DECLARATION FORM

I hereby declare that all the details mentioned above are in accordance with the truth and  
fact as per my knowledge and I hold the responsibility for the correctness of the above-  
mentioned particulars.

Date: 04/04/2023