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## Graziella Del Duca

### Integrated Researcher

ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre

### Contacts

#### E-mail

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### Research Interests

Digital survey, laser scanning and photogrammetry

Scan-to-BIM and HBIM

City Information Modeling

Digital Technologies for Architecture

Digital Heritage

### Academic Qualifications

University/Institution	Type	Degree	Period
Università degli Studi di Firenze	PhD	Architecture	2015
Ordine degli Architetti di Firenze	Other type of qualification	Building energy certification	2011
Ordine Architetti Firenze	Other type of qualification	Licensed to practice - Architect	2010

Università degli Studi di Firenze Scuola di Architettura	Licenciate	Architecture	2010
Archivio Diocesano, Locri	Other type of qualification	SCHOLA DE RE PALAEOGRAPHICA DIPLOMATICA ARCHIVISTICA ET DE RE BIBLIOGRAPHICA BIBLIOTHECONOMICA	2001

## Supervisions

### • Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Marta Orszt	Understanding the vocabulary of Portuguese architecture from XVIII century: A methodology based in HBIM, AI and ML for boosting the accessibility of heritage	English	Developing	Iscte

### • M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Salla Sinisammal	A Comparative Analysis of Building Rehabilitation Projects from the 1990s: The Vapriikki Museum in Finland and the Fado Museum in Lisbon.	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	CAPPELLI FILIPPO	La metodologia H-BIM per la conoscenza, la documentazione e la gestione del patrimonio architettonico: il Battistero di Pisa	English	Iscte	2026
2	Luís Miguel de Carvalho Fialho Lopes Marques	Da Cidade ao Vale   Projeto de Habitação Coletiva a Custos Controlados	English	Iscte	2025
3	Vanni Frassoni	Analisi e progetto di Restauro in ambiente H-BIM. La chiesa di San Pietro a Grado (PI) come caso studio	English	Iscte	2025
4	Thamires Silva	O USO DA METODOLOGIA HBIM NA DOCUMENTAÇÃO E GESTÃO DE INFORMAÇÃO DO PATRIMÓNIO HISTÓRICO - Um caso de estudo: Igreja de Nossa Senhora da Pena, Lisboa	English	Iscte	2022

5	Giuntoli Francesco	Rilevamento Tridimensionale e Catalogazione per la Valorizzazione del Centro Storico di Terranuova Bracciolini (PART A) www.architettura.unifi.it/upload/sub/tesi/2013/dicembre/relatori-tesi-magistrali-dic-2013.pdf	English	Iscte	2013
6	CARLO CAFISSI	Rilevamento Tridimensionale e Catalogazione per la Valorizzazione del Centro Storico di Terranuova Bracciolini (PART B) www.architettura.unifi.it/upload/sub/tesi/2013/dicembre/relatori-tesi-magistrali-dic-2013.pdf	English	Iscte	2013

## Publications

### • Books and Book Chapters

#### - Book chapter

1	Del Duca, G. (2025). An overview of conservation and restoration practice in Portugal. In BELLANCA, CALOGERO (Ed.), Theory and History of conservation. (pp. 461-477). Rome: Sapienza University Press.
2	Del Duca, G. (2024). Landscape and landmarks in ria Formosa, Portugal. Heritage and Memory. In Visualizing landscape. (pp. 688-703).
3	Del Duca, G. (2024). The importance of training architecture students in Scan-to-BIM and HBIM for enhanced preparedness and market competitiveness. In Advanced Research and Design Tools for Architectural Heritage, Unforeseen Paths. (pp. 231-279). Milton Park: Routledge. Taylor & Francis Group.
4	Del Duca, G., Luís Miguel Cotrim Mateus & Ferreira, Victor (2023). Enhancing understanding of heritage buildings through 3D printed tactile models in BIM for people with visual impairments. In Adela Rueda Márquez de la Plata and Pablo Alejandro Cruz Franco (Ed.), Oportunidades que ofrece la tecnología digital para los problemas de documentación, seguimiento, uso y visualización del patrimonio arquitectónico y ambiental. (pp. 137-147). Madrid: Dykinson S.L.
5	Del Duca, G. (2015). Modellazione e fruizione multimediale. In Stefano Bertocci and Susana Mora and Giovanni Minutoli and Giovanni Pancani (Ed.), Complessi Religiosi e Sistemi Difensivi sul Cammino di Santiago de Compostela: Rilievi e Analisi per la Valorizzazione e il Restauro della Cattedrale di Santa Maria la Real a Sasamón. (pp. 81-87). Florence: Centro Stampa del Consiglio Regionale della Toscana.
6	Del Duca, G. (2015). The 3D survey of baroque church and architecture in Ouropereto. In Stefano Bertocci and Sandro Parrinello (Ed.), Digital Survey and Documentation of the Archaeological and Architectural sites UNESCO World Heritage List. (pp. 218-221). Firenze: Edifir.
7	Del Duca, G. & Bertocci, S. (2012). Il primo insediamento dei certosini in Italia: La certosa di Serra San Bruno. In Architettura eremitica Sistemi progettuali e Paesaggi culturali. (pp. 444-449). Florence: Edifir.
8	Del Duca, G. & Bertocci, S. (2012). Seacoast defence systems: the casle of Roccella Jonica and tower Pizzofalcone. In Between east and west: transposition of cultural systems and military technology of fortified landscapes. (pp. 230-232). Florence : Edifir.

## • Other Publications

### - Master's Dissertation

1	Del Duca, G. (2010). Le quadrature delle stanze di Vittoria della Rovere e dell'appartamento dei Serenissimi Sposi a Palazzo Pitti: Nuove prospettive nel rilievo delle superfici dipinte.
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### - Doctoral Thesis

1	Del Duca, G. (2014). Ambientazioni architettoniche virtuali fra Barocco ed età contemporanea. Tecniche di pittura illusionistica, scenografia e video mapping. - Times Cited Google Scholar: 3
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## Research Projects

Project Title	Role in Project	Partners	Period
Comparative analysis of school outdoor spaces in primary schools using Digital Twin and GEO-BIM	Researcher	ISTAR-Iscte (DLS), - - (France)	2026

## Awards

Concurso Estímulo ao Emprego Científico Individual - 7.ª Edição (2025)
Excellent Science - Individual fellowship under Marie Skłodowska-Curie Actions (2020)
PhD Grant from Italian government (2012)

## Professional Associations

International Council on Monuments and Sites ICOMOS-Portugal (Since 2021)
LS3D, Laboratorio congiunto Landscape, Survey & Design <a href="https://ls3dlab.wixsite.com/ls3dlab">https://ls3dlab.wixsite.com/ls3dlab</a> (2011 - 2015)

## Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of non-scientific event's organizing committee	Award: Premio COMITES Portogallo 2025. Categories: Research, Art, Social Impact, Storytelling, Entrepreneurship, Performing art, Entertainment		2025

Member of non-scientific event's organizing committee	Award: Premio COMITES Portogallo 2025. Categories: Research, Art, Social Impact, Storytelling, Entrepreneurship, Performing art, Entertainment		2025
Member of scientific event's organizing committee	Workshop to stimulate debate, reflections and practices to foster mental health for expatriate researchers, dedicated to Italian researchers in Portugal.		2025
Member of non-scientific event's organizing committee	AWARD: "Premio Comites" 2024 celebrates Italian Excellence in Portugal, recognizing outstanding achievements in the fields of Culture, Research, Innovation, and Local Business. This prestigious award is organized with the institutional support of the Embassy of Italy.		2024
Member of non-scientific event's organizing committee	AWARD: "Premio Comites" 2024 celebrates Italian Excellence in Portugal, recognizing outstanding achievements in the fields of Culture, Research, Innovation, and Local Business. This prestigious award is organized with the institutional support of the Embassy of Italy.		2024
Member of scientific event's organizing committee	Scientific secretariat member of "ReUSO Rome 2021 - XI International Conference" Credits at <a href="https://en.reusoroma2021.com/comitati">https://en.reusoroma2021.com/comitati</a>		2021
Member of scientific event's organizing committee	Member of the organization secretariat for the exposition "Digital Survey and Documentation of the Archaeological and Architectural sites" . Credits at <a href="https://doi.org/10.5281/zenodo.11181982">https://doi.org/10.5281/zenodo.11181982</a>		2015
Member of non-scientific event's organizing committee	Member of the Organization Secretary for the exhibition 'DOCUMENTATION AND DIGITAL SURVEY OF THE ARCHITECTURAL AND ARCHAEOLOGICAL HERITAGE PROTECTED BY UNESCO '. Also in charge for the panel design and content. Credits available at <a href="https://doi.org/10.5281/zenodo.11181982">https://doi.org/10.5281/zenodo.11181982</a>		2014
Member of non-scientific event's organizing committee	Member of the Organization Secretary for the exhibition 'DOCUMENTATION AND DIGITAL SURVEY OF THE ARCHITECTURAL AND ARCHAEOLOGICAL HERITAGE PROTECTED BY UNESCO '. Also in charge for the panel design and content. Credits available at <a href="https://doi.org/10.5281/zenodo.11181982">https://doi.org/10.5281/zenodo.11181982</a>		2014
Member of scientific event's organizing committee	Seminar: "Arnolfo di Cambio's City Wall in Terranuova Bracciolini: Laser Scanning and Decay Mapping" . Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2014
Member of scientific event's organizing committee	Seminar: "Quadraturismo in Toscana" . Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2014

Member of scientific event's organizing committee	Seminar: Terranuova Bracciolini: Building Census for an Urban Requalification Plan. Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2014
Member of scientific event's organizing committee	Seminar: "Illusionistic Paintings: The Intersection of Virtual and Real Architecture" . Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2013
Member of scientific event's organizing committee	Seminar: "Laser scanning survey of Baroque palaces in Florence and nearby cities". Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2013
Member of non-scientific event's organizing committee	Member of the organization secretariat for the first ReUso international congress on documentation, preservation and reusing of architectural heritage promoted by the Universidad Politecnica de Madrid and University of Florence. Original conference title: Reuso . Congreso Internacional sobre Documentación, Conservación y Reutilización del Patrimonio Arquitectónico: Criterio y método en época Ingeniería y Técnica al Servicio de la Restauración. Credits available at <a href="https://zenodo.org/records/11187889">https://zenodo.org/records/11187889</a>		2012 - 2013
Member of non-scientific event's organizing committee	Member of the organization secretariat for the first ReUso international congress on documentation, preservation and reusing of architectural heritage promoted by the Universidad Politecnica de Madrid and University of Florence. Original conference title: Reuso . Congreso Internacional sobre Documentación, Conservación y Reutilización del Patrimonio Arquitectónico: Criterio y método en época Ingeniería y Técnica al Servicio de la Restauración. Credits available at <a href="https://zenodo.org/records/11187889">https://zenodo.org/records/11187889</a>		2012 - 2013
Member of non-scientific event's organizing committee	Russia-Europe Forum CUBE. Florence. Organizing Secretariat		2012
Member of scientific event's organizing committee	Seminar: "Laser Scanning Survey for Italian Quadratura: New Techniques for Surveying Virtual Architecture" . Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2012
Member of non-scientific event's organizing committee	Russia-Europe Forum CUBE. Florence. Organizing Secretariat		2012

Member of scientific event committee	Exhibition: Palazzo Pitti: illusionismi architettonici nelle sale terrene dei Granduchi The researcher contributed to the organization of the exhibition by assisting in the design and content preparation of the panels. She was also a member of the research group that presented the research results in the exhibition panels. Panels 14 to 29 specifically showcased her master's degree study Credits available at: <a href="https://flore.unifi.it/retrieve/e398c37a-1edb-179a-e053-3705fe0a4cff/CATALOGO%20QUADRATURIS%20MO.pdf">https://flore.unifi.it/retrieve/e398c37a-1edb-179a-e053-3705fe0a4cff/CATALOGO%20QUADRATURIS MO.pdf</a>		2011
Member of scientific event's organizing committee	Seminar Title: "UNESCO SITE: Laser Scanning and Photogrammetric Survey – Comprehensive Documentation of the Painted Rooms in the Ground Floor Apartments of the Pitti Palace". Description: This seminar is designed for third-year students enrolled in the Architectural Survey course as part of the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, and Graziella Del Duca.		2009 - 2010
Member of scientific event's organizing committee	Seminar: "Pisa leaning Tower, Baptistery, Cemetery, and Cathedral: 3D laser scanning survey". Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2009
Member of scientific event's organizing committee	Seminar: "Laser scanning and photogrammetric survey of the Renaissance "Palazzo Pretorio" in Pontedera . Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca.		2008
Member of scientific event's organizing committee	Seminar: "Urban Survey of the Historic Center of Lastra a Signa and Renaissance Walls". Description: This seminar is organized for third-year students of the Architectural Survey course within the five-year Integrated Master's Program in Architecture at the University of Florence. Organized by: Stefano Bertocci, Giovanni Pancani, Graziella Del Duca		2008