

Lorenzo Fei, Arch. Ph.D.

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Gender M | Nationality Italian

PROFESSIONAL AND
RESEARCH EXPERIENCES

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- 28/08/2023 - 15/12/2023

Adjunct assistant teaching Professor – European Building Cultures
 University of Notre Dame du Lac – School of Architecture Rome Studies Program
 Teaching, history of architecture, preservation, traditional building cultures
 - 10/2022 - 09/2023

Teaching support contract on Architectural Restoration Laboratory.
 University Roma Tre - Department of Architecture, Prof. Antonio Pugliano
 Teaching assistance, historiographic analysis, surveying, 3D modeling
 - 03/2022 - 07/2022

Lecturer in the Architectural Heritage Restoration course on "Palazzo Nardini at Governo Vecchio."
 Roma Tre University - Department of Architecture, Proff. Elisabetta Pallottino, Paola Porretta

 - Analysis of the urban dynamics of the western Campus Martius.
 - Historiographical analysis of the Palace and its urban context.
 - Evolution of ownership structures: from the 14th to the 19th century.
 - Analysis of test on walls to determine architectural transformations.
 - Reconstruction of the architectural and distributive layout of the Palace in the 15th century.
 Historiographical analysis
 - 03/2022 - 02/2023

Post-doc research grant within the project "Mirror Lab. The museum network integrated to the historical urban landscape of Rome - prototypical infrastructure with advanced digital applications in the virtual laboratory of the great baroque renaissance collections".
 Roma Tre University - Department of Architecture, Prof. Antonio Pugliano

 - Populate the DynASK database.
 - Critical study of the available historical documentation and characterization of selected urban areas and related architectures.
 - Entry of key data of cultural heritage in a database management system for GIS applications and representation in a 3D cartographic environment.
 - Contribution to the drafting of an upcoming Dynamic Atlas of Rome and its metropolitan area.
 Digitalization, Baroque Renaissance Collections, Urban heritage itineraries.
 - 10/2021 - 02/2022

Professional assignment for conservative restoration work in Palazzo Nardini, located in Via del Governo Vecchio, 39, 00186, Rome (RM).
 Professional Association of Architects Marina Cristiani and Isabella Diotallevi

 - Material surveys.
 - Definition of architectural interventions for conservation of existing plasters, frescoes and stone materials.
 - Attached project specifications.
 Survey, Bibliographic research, CAD, Restoration project
 - 12/2021 - 06/2022

Professional assignment for historical documentation, cartography, and digitalization of cultural heritage in Rome.
 Roma Tre University - Department of Architecture, Prof. Giorgio Ortolani

 - Documentary analysis (bibliographic, archival, cartographic)
 - Processing of collected data according to standard procedures published by the ICCD
 Archival research, GeoDB, CAD, Roman collecting, Roman public museum network
 - 08/2019 - 12/2020

Expanded WebGis *Descriptio Romae. A Dynamic Atlas for knowledge, seismic and hydrogeological risk prevention of the historic city*
 Roma Tre University - Department of Architecture, Prof. Antonio Pugliano

 - Documentation, archiving, and design of the Database and related GIS regarding historical seismicity
 - Research and publication of archival documents traced to the Archivio Storico Capitolino di Roma (ASCR).

- Digital mapping and compilation of related DBs, developed with CAD software and implemented with GIS software, consistent with architectural nomenclatures (MiC-ICCD).
[Archival research](#), [GeoDB](#), [CAD](#), [Historical seismicity](#), [Hydrogeology](#)

- 05/2020 **Tender for the restoration of the Basilica of St. Benedict in Norcia.**
MiBAC, Basilica of St. Benedict in Norcia

 - 3D modeling and design assistance for philological restoration interventions; design of anti-seismic devices for perimeter walls, wooden truss structures, and apsidal basin.
[Traditional construction techniques](#), [philological restoration](#), [3D modeling](#)

- 10/2019 - **Expert in Architectural Restoration - Architectural Restoration Laboratory.**
10/2021 Roma Tre University - Department of Architecture, Prof. Antonio Pugliano

 - Teaching assistance
 - Assistance in the production of architectural surveys
 - Assistance in the documentation and typological characterization of urban contexts
[History of Architecture](#), [Traditional Building Techniques](#), [Philological Restoration](#)

- 07/2018 **Founding member a.p.s. monòmade**
Association of Social Promotion monòmade

 - Urban regeneration
 - Development of urban and territorial itineraries
 - Design and prototyping of furniture for public spaces
 - Organization of workshops and training seminars
[Geographic Information System](#), [Parametric architecture](#)

- 03/2018 - **Visiting Ph.D. Candidate at LUCA - Luxembourg Center for Architecture**
07/2018 LUCA Research Institute - Luxembourg Center for Architecture

 - Documentary research.
 - Analysis of typological and constructive characteristics of traditional Central European vernacular architecture.
 - Architectural design of the Institute new exhibition atelier.
[Architectural history](#), [Design](#), [Archival surveys](#).

- 05/2017 - **Collaboration with Arch. Stefano Converso**
03/2018 Arch. Stefano Converso, RIMOND

 - Design and modeling Expo Dubai 2020 Hub.
 - As-built BIM of the plant system of the new intercontinental terminal at Fiumicino airport.
 - Design and prototyping of open-source furniture for public parks.
 - Project management with BIM software and production process control with CNC.
 - Event coordinator for *European Maker Week* and *International Maker Faire Rome 2017*.
[Design](#), [BIM](#), [Parametric Design](#), [Engineering](#), [Prototyping](#), [CNC](#)

- 03/2016 - **Co-author - Journal of the National Institute of Archaeology and Art History (RIASA)**
07/2017 Accademia Nazionale di San Luca - Elisa Debenedetti (Ed.)

 - Survey, research and drafting of historical files and descriptive headings of several drawings of the Lanciani Collection preserved in the Lanciani Archive of Palazzo Venezia.
 - Assisting in the digitalization of the Lanciani Collection.
 - Archival research, and publication of related documents, at: the Archivio Storico Capitolino; Archivio di Stato di Roma; Archivio Storico della Fabbrica di San Pietro.
 - Research at: National Academy of San Luca; Marco Besso Foundation; Central Institute for Graphic Arts; Quirinale's Office for Preservation of Artistic Heritage; Municipal Prints Cabinet-Palazzo Braschi.
[History of architecture](#), [Archival and library research](#)

- 09/2014 - **Consultant for the development project of the village of Monasterace (RC) - University of**
12/2014 Roma Tre

Roma Tre University - Department of Architecture, Prof. Michele Zampilli

 - Survey, documentation, and typological characterization of the urban context.
 - Geometric survey (2D, 3D) of a vernacular residential building, aimed at describing its structural systems (foundations, floors, masonry, roofing).
 - Finite Element Method (FEM) analysis to evaluate static and dynamic behavior of masonry.
[Urban Restoration](#), [Surveying](#), [FEM](#)

EDUCATION AND TRAINING

11/2017 - 09/2021 - **Ph.D. - University of Roma Tre**
 Roma Tre University - Department of Architecture

Wooden carpentry in the Roman building tradition. Knowledge, definition, actualization of the 'rule of art'.
 Architettura: Innovazione e Patrimonio - XXXIII - Il Progetto Filologico. Coordinator: Prof. Elisabetta Pallottino; Tutor: Prof. Arch. Antonio Pugliano; Co-Tutor: Prof. Ing. Giovanni Formica.

- Investigation of literary sources and technical manuals.
- Archival surveys conducted at: Archivio Storico Capitolino, Archivio di Stato di Roma, Archivio Storico di San Carlo alle Quattro Fontane, Archivio della Basilica Papale di Santa Maria Maggiore and Archives des Pieux Etablissements de la France à Rome et Lorette.
- Survey, documentation, characterization, and graphic restitution, aimed at the realization of a repertoire according to HiBIM libraries of the wooden framed roof structures belonging to the Libraries of Trinità dei Monti and San Carlo alle Quattro Fontane, the Basilicas of San Clemente, Santa Sabina, San Pietro in Vincoli, Santa Maria in Ara Coeli, and Santa Maria Maggiore.
- Production of monographic files for each building.
- Diachronic analysis of the roofing structures in relation to the chronological phases of the buildings, and their maintenance and restoration interventions.
- Development of a 2D non-linear predictive mechanical model for the contact interface of traditional wood-wood Trait de Jupiter joints, numerically analyzed by FEM to determine the stiffness and bearing capacity characteristics of the beam element as a function of the level of constraint offered by the joints selected and identified in situ.
- Design and development of two GeoDB and related unpublished cartographies (CAD/GIS): the first one to document the constructive techniques of buildings, starting with wooden framed structures; the other, to document the damage suffered by buildings because of historical seismic events.
- Creation of a glossary of technical terms found in treatises, manuals, and archival documents.

10/2013 - 12/2016 - **Master's Degree - University of Roma Tre**
 Roma Tre University - Department of Architecture

Consolidation and monitoring of wooden structures in cultural heritage buildings: Carbon nanotubes. St. Ignatius in Rome: philological restoration of the mock dome frame.

110 cum laude

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKER		WRITTEN PRODUCTION
	Listening	Reading	Interaction	Oral Production	
English	C1	C1	C1	C1	C1
French	C1	C1	B2	B1	B1

Levels: A1/A2: Basic user - B1/B2: Intermediate user - C1/C2: Advanced user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills, both in Italian and English, acquired during experiences as a book presenter, narrator in theatrical performances, voice actor, university lecturer, speaker in conferences, conventions, international symposia, lectures in university courses.

Digital skills

SELF-ASSESSMENT

Information processing	Communication	Content Creation	Security	Troubleshooting
advanced	intermediate	advanced	intermediate	intermediate

Levels: Basic User - Intermediate User - Advanced User
[Digital skills - Self-assessment form](#)

- Good knowledge of content creation tools (Office suite, Adobe suite)
- Good mastery of two-dimensional representation and 3D modeling software (Autocad, Revit, Rhinoceros, SketchUp)
- Good knowledge of image editing and rendering software (Photoshop, V-Ray, KeyShot)
- Fair knowledge of GIS software (QGIS, ARCGIS)
- Fair mastery of finite element modeling software (COMSOL Multiphysics, Sap2000)
- Basic knowledge of video rendering software (Unreal Engine)

Other skills

- Engraving (Seminario *Primo Segnare*, Guido Strazza (ed.), Accademia Nazionale di San Luca)
- Drawing and painting (Atelier Antonella Cappuccio)
- Carpentry (Construction and prototype workshop, Arch. Paolo Procesi, construction and consolidation of racing boats)

MORE INFORMATION

Publications

- Fei L, Freddolini F, Grigoletto F, Lacolla V M, Lopardi L, Malatesta S G, Marzullo L, Onori M, Pugliano A, Rosati P (2023) MirrorLAB: narrative patterns between collections of antiquities and urban landscapes. 2023 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage Rome, Italy, October 19-21, 2023
- Fei L, Formica G (2023) A predictive nonlinear 2D mechanical model for FEM analysis of Trait de Jupiter wooden joints. In: Pecchioli L (ed) *Archaeoseismology - Methodologies and Case Studies*. Springer Nature, Berlin, chapter 8, ISBN: 978-3-031-28302-4
- Fei L (2022) "Per maggiore ornamento di questa Nostra Città". Da Sant'Ignazio a Palazzo Montecitorio: progetto per una strada a doppio fondale. *Storia dell'Urbanistica* 14: 104-121
- Fei L (2021) L'Atlante Dinamico e il rischio ambientale. Documentazione, caratterizzazione, progetto. *Ricerche di Storia dell'Arte* 134: 51-58, ISSN: 0392-7202, ISBN: 978-88-290-0886-5
- Angelucci F, Fei L, Pugliano A (2020) Le indagini archivistiche e la valorizzazione del paesaggio storico urbano: dalla sicurezza ambientale alle caratterizzazioni cromatiche. In: In Minutoli G (ed.), *Proceedings of the International Symposium ReUSO. Restauro: temi contemporanei per un confronto dialettico*, Firenze University Press, DIDA, pp.122-131, ISBN: ISBN 9788833381206
- Fei L, Angelucci F, Pugliano A (2020) Edilizia storica romana: cartografia dei danni in scala MCS causati dai terremoti storici. Strumento critico per la valutazione della vulnerabilità sismica. In: In Minutoli G (ed.), *Proceedings of the International Symposium ReUSO. Restauro: temi contemporanei per un confronto dialettico*, Firenze University Press, DIDA, pp.714-723. ISBN: ISBN 9788833381206
- Pugliano A, Angelucci F, Fei L (2020) La dinamica conoscitiva del paesaggio storico e il 'restauro per la valorizzazione': l'Atlante Dinamico DynASK (Dynamic Atlas of Knowledge). In: In Minutoli G (ed.), *Proceedings of the International Symposium ReUSO. Restauro: temi contemporanei per un confronto dialettico*, Firenze University Press, DIDA, pp.602-611. ISBN: ISBN 9788833381206
- Fei L (2019) Experimentation of tools and methods for the organization of archival data in support of a 'Dynamic Atlas', useful for the knowledge and fruition of Rome. In: Gambardella C (ed), *Proceedings of the XVII International Forum of Studies "Le Vie dei Mercanti": WORLD HERITAGE and LEGACY*, Naples – Capri, June 2019. Gangemi Editore, Roma, pp.993-1000, ISBN: 978-88-492-3752-8
- Fei L (2018), Sant'Ignazio a Roma: il telaio della cupola dipinta. Tecniche tradizionali e tecnologie moderne. In: Minutoli F (ed), *Proceedings of the IV International Forum ReUSO. L'intreccio dei saperi per rispettare il passato interpretare il presente salvaguardare il futuro*, Messina, October 2018. Gangemi Editore, Roma, pp.455-466, ISBN13: 9788849236590
- Barberini M G, Fei L (2017) Arredo Urbano a Roma tra XVIII e XIX secolo attraverso alcuni disegni della Collezione Lanciani. *Rivista dell'Istituto Nazionale di Archeologia e Storia dell'Arte* 72, III S., XL: 109-155, ISSN: 0392-5285, E-ISSN: 2037-6634, ISBN: 978-88-3315-109-0
- Fei L (2017) Sant'Ignazio a Roma. Ripristino filologico del telaio della cupola dipinta. *Ricerche di Storia dell'Arte* 122: 104-109, ISSN: 0392-7202, ISBN: 978-88-430-8707-5
- Barberini M G, Fei L (2015) Gaetano Koch e Palazzo Gori Mazzoleni-Guglielmi a piazza Ss. XII Apostoli: un'intrecciata storia di famiglia. In: Parlato E (ed) *Curiosa Itinera, Scritti per Daniela Gallavotti Cavallero*. Ginevra Bentivoglio Editoria, Roma, pp.515-524, ISBN: 978-88-98158-84-3.

Conferences, Lectures and Symposia

- Lecture 'For the public good and decency. Urban decoration in Rome in the 17th century. A case study' – *Zweiundzwanzigster Internationaler Barocksommerkurs der Stiftung Bibliothek Werner Oechslin*, Kolloquium zum Thema «angemessen». Konzeption / Organisation: Dr. Anja Buschow Oechslin (Einsiedeln), Prof. Dr. Axel Christoph Gampp (Uni Basel, Fachhochschule Bern), Prof. Dr. Werner Oechslin (Einsiedeln), 25-29 June 2023.
- Lecture 'La carpenteria lignea della tradizione costruttiva di ambiente romano. Conoscenza, definizione, attualizzazione della 'regola dell'arte' – *Università degli Studi Roma Tre*, "Dottorato - Architettura. Innovazione e Patrimonio", Proff. Elisabetta Pallottino, Giovanna Spadafora, 22 March 2023.
- Lecture 'Il Campo Marzio: evoluzione del contesto urbano di palazzo Nardini' – *Università degli Studi Roma Tre*,

- “Laboratorio di Restauro del Patrimonio Architettonico”, Proff. Elisabetta Pallottino, Paola Porretta, 22 March 2023.
- Lecture ‘Rome: An Overview of 19th Century Building Techniques’ - *University of Notre Dame School of Architecture Rome Global Gateway*, 13 March 2023.
 - Lecture ‘Timber trusses in the Roman architectural heritage. A focus on FEM analysis of Trait de Jupiter wooden joints’ - *Technische Universität Wien*, “Kollaboratives Arbeiten | Historische Bautechniken Historical constructions in the focus of archaeosismology”, Dr. Laura Pecchioli, Prof. Marina Döring-Williams, 12 November 2022.
 - International conference “Le strade con fondale. La progettazione coordinata di strade e architetture tra Medioevo e Novecento”, Associazione Storia della Città, *Università degli Studi di Cagliari* – Dipartimento di Architettura, 15-17 June 2022.
 - Lecture ‘Roma e il terremoto: l’Atlante Dinamico DynASK e la questione sismica. Fruizione in sicurezza del patrimonio e del paesaggio storico urbano’ - *Università degli Studi Roma Tre*, International Master’s Degree in “Culture del Patrimonio. Conoscenza, tutela e valorizzazione”, Prof. Elisabetta Pallottino, 23 June 2021.
 - ReUSO, International congress 2020.
 - Lezione ‘Il terremoto a Roma’ - *Università degli Studi Roma Tre*, International Master’s Degree in “Culture del Patrimonio. Conoscenza, tutela e valorizzazione”, Prof. Elisabetta Pallottino, 24 June 2020.
 - Le Vie dei Mercanti, Napoli 6-8 June 2019.
 - Lecture ‘Vitruvio e i suoi eredi’ - *Università degli Studi Roma Tre*, “Storia dell’Architettura 1”, Prof. Giorgio Ortolani, 10 October 2019.
 - Lecturer at *Rome University of Fine Arts* - RUFA, “Design 1”, Prof. Luigi Prestinzenza Puglisi, 29 January 2019.
 - ReUSO, International congress, 11-13 October 2018.

Courses and Workshops

- Course *Enfoscados y estucos a la cal*, Centro de formación sobre oficios tradicionales Homo Faber, Proff. Monica Martin Sisì, Francisco Azconegui, León, 3-7 June 2023.
- International Workshop *Sustainable Architecture: dialogue between antiquity and modernity*, The British School at Rome, Durham University, Notre Dame University, 03 November 2022.
- Course *Lavori Pubblici, Progettazione e Direzione*, OAPPC Provincia di Como, 2022.
- Course *Rhino 3D: From beginner level to advanced level*, Alexandre Galin, Rhino 3D instructor, McNeel Rhinoceros, Udemy, 2022.
- International Workshop *Hygroscapes*, Università degli Studi Roma Tre, 02/2019.
- III International conference *Laterizio*, Roma, 03/2019.
- Course *La scrittura accademica*, Prof. D. Fiorimonte, 2019.
- Course *Academic English*, CLA UNIROMA TRE, 2019.
- Workshop *Il Casino dei Boschi di Carrega*, Manifattura Urbana, 17-22 October 2018.

Membership in associations

- Founder: a.p.s. *monòmade*.
- Member: *Associazione Storia della Città*.
- Member: *ARCo* - Associazione per il Recupero del Costruito.
- Member: *Architetti Senza Frontiere Italia*.
- Member: *Greenpeace*.
- Member: *Club Alpino Italiano* – Rome section.

Professional Title

- Architect, registered with the Ordine degli Architetti, Pianificatori, Paesaggisti e Conservatori di Roma e Provincia, sezione A, n. 25210 (29/01/2019).

Rome, August 25, 2023