Chiara Chioni, Ph.D.
chiara.chioni@unitn.it | (+39)3385715240

CURRICULUM VITAE

1. RÉSUMÉ

CHIARA CHIONI

Massa (IT), 28/07/1994
Licensed architect and engineer
Ph.D. in Architecture and Planning, Landscape (*Doctor Europaeus*)
Research fellow at the Department of Civil, Environmental and Mechanical Engineering - University of Trento (IT)
Researcher unique identifier (ORCID): https://orcid.org/0000-0002-8296-3091
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Chiara Chioni is an Italian Ph.D. and licensed architect and engineer, as well as a research fellow at the Department of Civil, Environmental and Mechanical Engineering (DICAM) of the University of Trento. Here she is affiliated to the Ecological Landscape Design (ELaDe) Laboratory lead by Prof. Dr. Sara Favargiotti and to the Laboratory of Architectural Modelling and Analysis Representation and Communication (LAMARC) lead by Prof. Dr. Giovanna A. Massari. Since 2020, her research focuses on the multi-dimensional documentation and digital modelling of landscape heritage to effectively support its management, planning, and design (ICAR/17, ICAR/15).

She graduated *cum laude* in Architecture and Building Engineering from the University of Pisa (2019) with a thesis on post-disaster temporary housing, partially developed during a research internship at the Welsh School of Architecture in Cardiff, funded by the Erasmus+ programme (2019). The outcomes of the thesis were published, presented in international conferences, and exhibited in the 17° Biennale Architettura of Venice (2021). During her Master's studies, she also participated in several international design workshops and tutored fellow younger students in the same Master's academic courses.

In her professional experiences – as a self-employed engineer at the ATIproject's firm in Pisa (2019), a post-graduate architect intern at the Elisa Valero's office in Granada, funded by the Erasmus+ programme (2020), and an engineer trainee at Henraux S.P.A. in Seravezza (2020) –, she worked on national and international design projects as well as design competitions mainly dealing with digital drawing, physical and digital modelling, and spatial analysis.

In her academic experiences – as a Ph.D. candidate and research fellow –, she participated in national and international courses, seminars, workshops, and conferences where she presented her research work, also published in journals, books, and conference proceedings.
As an early-stage researcher, she has been part of *RESALIO* (PAT (AI) Parco Stelvio), *B4R–Branding4Resilience* (PRIN 2017-Youth Line), and *PEARLS–Planning and Engagement Arenas for Renewable energy LandscapeS* (H2020 MSCA RISE 2017) research teams, actively participating in exploratory, co-design and dissemination activities as well as in research secondments at European companies as Geosystems Hellas S.A. in Athens and Territoria, análisis y gestión del medio S.L. in Seville funded by the PEARLS project (2022). Other international research exchanges were carried out at ETH Zurich and Aalto University (2023).

Additionally, Chiara at DICAM volunteered to: represent Ph.D. candidates (2021-2023); tutor students of the M.Sc. in Architecture and Building Engineering (2021-2024); support the teaching Models Laboratory (2022-ongoing).

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2. EDUCATION AND TRAINING

11/2020 – 10/2024 Trento, Italy	**PH.D. IN ARCHITECTURE AND PLANNING, LANDSCAPE (*Doctor Europaeus*)** University of Trento Doctoral School in Civil, Environmental and Mechanical Engineering Curriculum "Architecture and Planning, Landscape" Thesis: *READY-MADE MODEL. Digital tools for reality-based virtual landscapes* Grade: *cum laude* Fundings: University of Trento, Ministry of University and Research
09/2013 – 10/2019 Pisa, Italy	**M.SC. IN ARCHITECTURE AND BUILDING ENGINEERING** University of Pisa Department of Energy, Systems, Territory and Construction Engineering Thesis: *From temporariness to permanence. The case of "Borgo di Arquata" after the 2016 central Italy earthquake* Grade: 110/110 *cum laude*
09/2008 – 07/2013 Massa, Italy	**HIGH SCHOOL DIPLOMA** Liceo Classico "P. Rossi" Grade: 100/100

International training

11 – 12/2023 Espoo, Finland	**VISITING RESEARCHER (Ph.D. candidate)** Aalto University School of Arts, Design and Architecture Department of Architecture
04/2023 Zürich, Switzerland	**VISITING RESEARCHER (Ph.D. candidate)** ETH Zürich Department of Environmental Systems Science Institute of Terrestrial Ecosystems Forest Resources Management (FORM) Group
11 – 12/2022 Sevilla, Spain	**SECONDED RESEARCHER (Ph.D. candidate)** Territoria, análisis y gestión del medio SLU Fundings: H2020 MSCA RISE 2017 "PEARLS" G.A. 778039
09 – 10/2022 Athens, Greece	**SECONDED RESEARCHER (Ph.D. candidate)** GEOSYSTEMS HELLAS S.A. Fundings: H2020 MSCA RISE 2017 "PEARLS" G.A. 778039
01 – 05/2020 Granada, Spain	**ARCHITECT INTERN (Post-graduate internship)** ELISA VALERO RAMOS Fundings: Erasmus+ programme
03 – 05/2019 Cardiff, UK	**RESEARCH INTERN (Under-graduate internship)** Cardiff University Welsh School of Architecture Fundings: Erasmus+ programme
07/2010 London, UK	**SUMMER SCHOOL** University of Greenwich

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3. WORK EXPERIENCE

02/2024 – CURRENT
Trento, Italy

RESEARCH FELLOW
University of Trento
Department of Civil, Environmental and Mechanical Engineering
Project: PAT (AI) Parco Stelvio – *RESALIO. Exploration of enhancement scenarios in the Stelvio National Park (Trentino Sector) through the existing cable system*

11/2020 – 10/2024
Trento, Italy

PH.D. CANDIDATE
University of Trento
Doctoral School in Civil, Environmental and Mechanical Engineering
Curriculum "Architecture and Planning, Landscape"

08 – 10/2020
Seravezza, Italy

ENGINEER TRAINEE
HENRAUX S.P.A.
Traineeship in design and processing of stone materials with high-tech machinery

12/2019
Pisa, Italy

SELF-EMPLOYED ENGINEER
ATIPROJECT
Collaboration to conduct spatial analysis (Visibility Graph Analysis, Agent-based analysis) on the finalist project for the international design competition for the new headquarters of Human Technopole in Milan (Italy) - fourth place

4. RESEARCH ACTIVITIES

2024 – CURRENT

Member of the RESALIO research team
Participation and support to the research activities of the project "RESALIO. Exploration of enhancement scenarios in the Stelvio National Park (Trentino Sector) through the existing cable system" (PAT (AI) Parco Stelvio)
Info: https://www.parcostelviotrentino.it/it/cosa-facciamo/resalio/154-147192.html

2024

Member of the ScriBUnT research team
Participation to the research activities of the project "ScriBUnT– Scrittura di Biografie dell'Università di Trento"
Info: https://libguides.unitn.it/c.php?g=1292684&p=9492609

2022 – 2023

Member of the PEARLS research team
Participation to the research activities of the international research project H2020 MSCA RISE 2017 "PEARLS–Planning and Engagement Arenas for Renewable energy LandscapeS" (G.A. 778039)
Info: https://pearlsproject.org/

2020 – 2024

Member of the B4R research team
Participation and support to the research activities of the project of relevant national interest (PRIN 2017 – Youth Line) "B4R– Branding4Resilience. Tourist Infrastructure as a Tool to Enhance Small Villages by Drawing Resilient Communities and New Open Habitats" (Project number: 201735N7HP)
Info: www.branding4resilience.it

5. DISSEMINATION ACTIVITIES

Selected publications

2024   Chioni C., Pezzica C., Favargiotti S. **Territorial Digital Twins: A key for increasing the community resilience of fragile mountain inner territories?** *Sustainable Development*, 32(2), pp. 1548-1563. https://doi.org/10.1002/sd.2688.

2024   Pezzica C., Chioni C., Mols N.M.L. **Exploring Alternative Urban and Architectural Virtual Realities Through Multidomain Digital Twins**. In: Giordano et al. (eds) *Advances in Representation*, pp. 675-690. https://doi.org/10.1007/978-3-031-62963-1_41.

2024   Pezzica C., Altafini D., Mara F., Chioni C. **Travel-Time in a Grid: Modelling Movement Dynamics in the "Minute City"**. In: Marucci et al. (eds) *Innovation in Urban and Regional Planning. INPUT 2023*, pp. 657-668. https://doi.org/10.1007/978-3-031-54118-6_58.

2023   Chioni C., Maragno A., Pianegonda A., Ciolli M., Favargiotti S., Massari G.A. **Low-Cost 3D Virtual and Dynamic Reconstruction Approach for Urban Forests: The Mesiano University Park.** *Sustainability*, 15(19), 14072. https://doi.org/10.3390/su151914072.

2022   Favargiotti, S. Pasquali M., Chioni C., Pianegonda A. **Water Resources and Health Tourism in Val di Sole: Key Elements for Innovating with Nature in the Italian Inner Territories**. *Sustainability*, 14(8), 11294. https://doi.org/10.3390/su141811294.

2021   Chioni C., Pezzica C., Cutini V., Bleil de Souza C., Rusci S. **Multiscale Configurational Approach to the Design of Public Open Spaces After Urban Disasters**. In: Eloy et al. (eds) *Formal Methods in Architecture. Advances in Science, Technology & Innovation*, pp. 171-183. https://doi.org/10.1007/978-3-030-57509-0_16.

Participation

15/11/2024
Mendrisio, Switzerland
Speaker at "LANDSCAPE AS ARCHITECTURE" symposium
Università della Svizzera italiana, Istituto di Studi Urbani e del Paesaggio
Presentation: *Landscape Ready-Made Model(s). Digital tools for reality-based virtual landscapes*

23/10/2024
Rovereto, Italy
Speaker at "RICERCA E COMUNICAZIONE. Il ruolo sociale di Umanisti e Scienziati nel mondo della complessità" conference
Fondazione Caritro
Session: *DONNE E IMPEGNO PUBBLICO: QUALCHE BELLA STORIA TRA LE TANTE*

06/06/2024 Wien, Austria	**Speaker at "Digital Landscape Architecture Conference"** Vienna University of Technology Presentation: *Feel the Context! Ex situ horizon reconstruction in mountain landscapes for bioclimatic design*
14/05/2024 Riva del Garda, Italy	**Moderator at "Positive Energy Landscapes. Progettare paesaggi e includere comunità nella transizione energetica" workshop in "REbuild"** Riva del Garda Fierecongressi Session: *Percezione e aspetti sociali*
07/03/2024 Palermo, Italy (online)	**Lecturer at "IL PROGETTO DI RICERCA BRANDING4RESILIENCE (PRIN 2017 LINEA GIOVANI). GLI ESITI DI UNA RICERCA – RITRATTI E VISIONI DI QUATTRO TERRITORI INTERNI ITALIANI" doctoral seminar** University of Palermo, Department of Architecture Presentation: *Val di Sole*
11/09/2023 Brno, Czech Republic (online)	**Speaker at "European Council of Landscape Architecture Schools" conference** Mendel University Presentation: *Renewable Energy Landscapes: investigating the public perception to support inclusive planning processes*
07/09/2023 Cairo, Egypt (online)	**Speaker at "ISPRS Geospatial Week"** Arab Academy for Science, Technology, and Maritime Transport Presentation: *LOW-COST WORKFLOW FOR 3D URBAN FOREST VIRTUAL RECONSTRUCTION*
04/07/2023 Athens, Greece (online)	**Speaker at "International Conference on Computational Science and Its Applications"** National Technical University of Athens, University of the Aegean Presentation: *Multiscale Digital Landscape Reconstructions for Resilient Mountain Inner Areas*
08/06/2023 Rome, Italy	**Speaker at "Reti, Città, Territorio: strategie progettuali per la valorizzazione dei sistemi policentrici" conference** Sapienza Università di Roma, Department of Planning, Design,Technology of Architecture Presentation and posters exhibition: *Val di Sole Blueprint. Reti e costellazioni dei paesaggi dell'acqua*
25/05/2023 Dessau, Germany	**Speaker at "Digital Landscape Architecture Conference"** Hochschule Anhalt University of Applied Sciences Presentation: *Digital representation of marginal landscapes: 'agile' 3D modeling workflows for an Italian inner valley*
19/05/2023 Ancona, Italy	**Moderator at "Conferenza B4R. Ritratti, progetti e visioni strategiche per territori interni"** Università Politecnica delle Marche Session: *CO-VISIONING DIALOGUES. Paesaggi e dinamiche della transizione*

25/11/2022 Bertinoro, Italy (online)	**Speaker at "One Health: unifying perspectives on Climate Change" conference** University of Bologna Presentation: *Field experiences. How to investigate the perception of energy landscapes?*
14/09/2022 Innsbruck, Austria	**Speaker at "International Mountain Conference"** University of Innsbruck Presentation: *Hydrological resource and health tourism for Sustainable Development of Inner Territories in Alpine Context of Val di Sole (TN)*
11/07/2022 Warsaw, Poland (online)	**Speaker at "IALE European Landscape Ecology Congress"** Polish Academy of Sciences, University of Warsaw Presentation: *Hydrological resource and health tourism of Val di Sole (Italy): key elements for sustainable development of inner territories*
24/06/2022 Brescia, Italy	**Speaker at "XXIV Conferenza Nazionale SIU: Dare valore ai valori in urbanistica"** University of Brescia Presentation: *Emerging models for landscape digital representation and responsive environments: comparing experiences towards the Digital Twin of an inner mountain valley in Italy*
10/12/2021 Bologna, Italy (online)	**Speaker at "Ground(s). Mapping, designing and caring: Towards a convivial society" conference** University of Bologna Presentation: *The Trentino Blueprint: Mapping Dynamics Assets for Sustainable Development of Marginal Territories in Alpine Context*
04/11/2021 Wien, Austria	**Speaker at "26th Cultural Heritage and New Technologies Conference"** CHNT-ICOMOS Austria Presentation: *Reality VS Virtual Modeling. From Building to Landscape Heritage Representation*
30/06/2021 London/Hatfield, UK (online)	**Speaker at "Urban Assemblage: The City as Architecture, Media, AI and Big Data"** Architecture, Media, Politics, Society (AMPS) research organisation Presentation: *Interoperable workflows: information life cycle at landscape and architectural scales*

Co-organization

02 – 03/08/2024 Peio, Italy	**Construction workshop RESALIO** In the framework of the project "RESALIO" (2024-ongoing) Coordinator: Prof. Sara Favargiotti
13 – 14/07/2024 Peio, Italy	**Co-design workshop RESALIO** In the framework of the project "RESALIO" (2024-ongoing) Coordinator: Prof. Sara Favargiotti
05 – 06/2024 Peio, Italy	**Thematic meetings RESALIO** In the framework of the project "RESALIO" (2024-ongoing) Coordinator: Prof. Sara Favargiotti

06/03/2024 Peio, Italy	**Kick-off meeting RESALIO** In the framework of the project "RESALIO" (2024-ongoing) Coordinator: Prof. Sara Favargiotti
19/12/2023 Malè, Italy	**Co-vision workshop B4R** In the framework of the project "Branding4Resilience" (2020-2024) Coordinator: Prof. Sara Favargiotti
10 – 11/11/2023 Trento, Italy	**International IASLA Conference 2023 "ON WATER. Comprehending, designing, caring"** University of Trento, Department of Civil, Environmental and Mechanical Engineering Coordinator: Prof. Sara Favargiotti
31/10/2023 Peio, Italy	**Co-vision workshop B4R** In the framework of the project "Branding4Resilience" (2020-2024) Coordinator: Prof. Sara Favargiotti
20/12/2022 Trento, Italy	**Event "MedWays Open Atlas. Presentazione dell'Atlante Interdisciplinare"** University of Trento, Department of Civil, Environmental and Mechanical Engineering Coordinator: Prof. Sara Favargiotti
11 – 14/02/2022 Peio/Rabbi, Italy	**Co-design workshop B4R "Co-progettare la Val Di Sole. Le forme dell'acqua"** In the framework of the project "Branding4Resilience" (2020-2024) Coordinator: Prof. Sara Favargiotti
23/10/2021 Venice, Italy	**Biennale Session "Learning by Design"** Biennale di Architettura 2021 Coordinator: Prof. Mosè Ricci

Exhibitions

10/2022 – 03/2023 Campello sul Clitunno, Italy	**"Hortus Lizori"** Three panels (A1) resulting from the international design workshop *Hortus Lizori* with Monica Battistoni, Vittoria Castiglione, Francesco Cotana, Benedetta Di Leo, Belén Trivi Palazzo Ducale Trinci Curators: Fabio Bianconi, Marco Filippucci, Franco Zagari, Matteo Clemente
05 – 11/2021 Venice, Italy	**17° Biennale Architettura Venice "How will we live together?"** One A4 panel and a video (*La struttura della resilienza nell'emergenza e nell'auto-organizzazione*) with Valerio Cutini, Simone Rusci, Marco Buonocore Italian Pavilion, Arsenale Curator: Alessandro Melis

19 – 28/11/2017 Pisa, Italy	**2° Biennale Architettura Pisa "Le Città e l'Acqua: un laboratorio verso il future"** Two A1 panels and a physical model (*Il fiume Arno da Putignano alle Piagge*) resulting from the design workshop *Le Città e l'Acqua*, with Andrea Marchi, Beatrice Paoli, Elisabetta Coni, Sara Di Nasso Pisa Pavilion, Bastione Sangallo Curator: Luigi Prestinenza Puglisi

Reviews

2024	**Reviewer for the journal *Geocarto International*** ISSN 1752-0762
2024	**Reviewer for the journal *Discover Sustainability*** ISSN 2662-9984
2024	**Reviewer for the journal *Scientific Reports*** ISSN 2045-2322
2023	**Reviewer for the book *Innovation in Urban and Regional Planning. Proceedings of INPUT 2023 - Volume 2*** ISBN 978-3-031-54096-7
2022	**Reviewer for the journal *Sustainable Development*** ISSN 1099-1719

Memberships

2024 – CURRENT	**Italian Academic Society of Landscape Architecture (IASLA)** Website: https://www.iasla.it/
2024 – CURRENT	**Unione Italiana Disegno (UID)** Website: https://www.unioneitalianadisegno.it/wp/
2023	**International Society for Photogrammetry and Remote Sensing (ISPRS) Student Consortium** Website: https://sc.isprs.org/home/

6. TUTORING ACTIVITIES

19 – 23/07/2024 Trento, Italy	**Tutor in the doctoral course "Collaborative approaches for the digital documentation, representation and design of territories and landscapes"** University of Trento, Doctoral School in Civil, Environmental and Mechanical Engineering Lecturers: Prof. Sara Favargiotti, Dr. Camilla Pezzica, Prof. Giovanna A. Massari
15 – 16/07/2024 Pieve Tesino, Italy	**Tutor in the summer school "Food, Landscapes and ecosystems to design sustainable future"** Tuscia University, Department for Innovation in Biological, Agro-food and Forest systems Coordinator: Prof. Rita Biasi

02 – 06/2024 Trento, Italy	**Tutor in the course "Architectural Composition II"** University of Trento, Department of Civil, Environmental and Mechanical Engineering, M.Sc. in Architecture and Building Engineering Chair: Prof. Sara Favargiotti Grant for tutoring activity
22 – 23/04/2024 Ancona, Italy (online)	**Tutor in the doctoral course "EXPLORATION AND REGENERATION OF INNER TERRITORIES THROUGH COLLABORATIVE APPROACHES"** Università Politecnica delle Marche, Doctoral School in Engineering Science Coordinator: Prof. Maddalena Ferretti
22 – 24/09/2023 Predazzo, Italy	**Tutor in the workshop "ViC-CH Visual Culture and Cultural Heritage"** University of Trento, Department of Civil, Environmental and Mechanical Engineering Coordinator: Prof. Giovanna A. Massari
06/2022 – 08/2023 Trento, Italy + Asunción, Paraguay (online)	**Tutor of M.A. thesis in Architecture** University of Trento + Universidad Nacional de Asunción Thesis: *INTERVENCIÓN EN EDIFICIO DE MONTAÑA: CENTRO COMUNITARIO VAL DI PEIO. Líneas de intervención contemporánea en arquitectura alpina y resolución de problemas socioeconómicos mediante la arquitectura* Candidates: Alexa Aline Trabucco Lacasa, Chiara Trovato Arias Supervisors: Arch. Sergio Ruggeri (Universidad Nacional de Asunción), Prof. Sara Favargiotti (University of Trento)
02/2021 – 05/2023 Trento, Italy	**Tutor in the course "Landscape Architecture"** University of Trento, Department of Civil, Environmental and Mechanical Engineering, M.Sc. in Architecture and Building Engineering Chair: Prof. Sara Favargiotti
09 – 12/2018 Pisa, Italy	**Tutor in the course "Architecture and Architectural Composition II"** University of Pisa, Department of Energy, Systems, Territory and Construction Engineering, M.Sc. in Architecture and Building Engineering Chair: Prof. Pietro Carlo Pellegrini Grant: Bando Fondo Giovani 2018-2019
03 – 05/2018 Pisa, Italy	**Tutor in the course "Town Planning Technology I"** University of Pisa, Department of Energy, Systems, Territory and Construction Engineering, M.Sc. in Architecture and Building Engineering Chair: Prof. Luisa Santini Grant: Bando Fondo Giovani 2017-2018

7. ACADEMIC SERVICES

05/2022 – CURRENT Trento, Italy	**Member of the Models Laboratory staff** University of Trento, Department of Civil, Environmental and Mechanical Engineering Coordinator: Prof. Giovanna A. Massari

03/2021 – 03/2023
Trento, Italy

Ph.D. candidates representative
University of Trento, Doctoral School in Civil, Environmental and Mechanical Engineering

8. GRANTS AND MENTIONS

2024

Shortlisted finalist – West Midlands National Park Award
For the project *Val di Sole Blueprint*
Coordinator: Prof. Sara Favargiotti

2024

Mention – Premio UID Giovani Vito Cardone
For the project *NaDi*
Coordinator: Alessandro Meloni

15/06 – 15/07/2023

Grant – COST Association AISBL (Virtual Mobility)
For the review of open point cloud databases in forestry in the framework of the CA20118 COST Action "3DForEcoTech"
Supervisors: Dr. Martin Mokroš (Czech University of Life Sciences Prague), Dr. Carlos Cabo (University of Oviedo), Dr. Arnadi Murtiyoso (ETH Zürich)

06 – 08/07/2022

Grant – Antonio Meneghetti Scientific and Humanistic Research Foundation
For the participation in the international workshop *Hortus Lizori* for the European Doctoral Schools

02 – 06/2022

Grant – EuroSDR Educational Service
For the participation in the 20th series of e-learning courses from EuroSDR in the field of GeoInformation

26 – 28/04/2018

Grant – DAAD (Hochschul dialog mit Südeuropa)
For the participation in the 3rd *International Workshop on Traditional and Innovative Approaches in Seismic Design* (TIASD) in Guimarães, Portugal

2017

Merit Award – BCA International BIM Competition
For the project *Lab 2.4*
Coordinator: Cristhian Gaviria Bolanos

9. CERTIFICATES

2022

Specific Safety Course - medium risk
University of Trento

2020

Architect license (section A)
University of Florence

2020

Engineer license (section A)
University of Pisa

2018

Training Course for Occupational Safety in the Civil Sector
University of Pisa

2013

Driving Licence (B)

10. LANGUAGES

ITALIAN
Mother tongue

ENGLISH
Speaking: Independent user (B2)
Reading: Proficient user (C1)
Writing: Proficient user (C1)
First Certificate in English (B2), University of Cambridge, 2012

SPANISH
Speaking: Basic user (A2)
Reading: Independent user (B1)
Writing: Basic user (A1)

FRENCH
Speaking: Basic user (A1)
Reading: Basic user (A1)
Writing: Basic user (A1)
DELF Certificate in French (A2), Commission nationale du DELF et du DALF, 2005

11. DIGITAL SKILLS

Proficient user:
- Autodesk AutoCAD
- Adobe Suite (Photoshop, Indesign, Illustrator, Acrobat)
- QGis
- Microsoft Office Suite (Word, Excel, PowerPoint)

Independent user:
- Rhinoceros & Grasshopper
- CloudCompare
- Agisoft Metashape
- 3Df Zephyr

Basic user:
- Autodesk 3ds Max
- Autodesk Revit
- Autodesk ReCap
- Twinmotion
- Unity
- Anaconda/Miniconda

Trento, November 2024   Chiara Chioni