

# Giulia Pellegrini

Associate professor

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## *Education and training*

1999

### **PhD in Survey and Representation of Architecture and the Environment**

The Ripa Maris of Genoa analysis survey and representation of historical and architectural values from its origins to today

Università di Genova - Genova - IT

## *Academic experience*

2016 - 2018

### **Associate Professor**

University of Genoa - Genoa - IT

Delegated Department Orientation - Member of the PhD in Architecture and Design - Member of the Evaluation Commission for the assignment of Official Courses of the disciplinary sector 08 / E1 of the Department - Scientific Director International Conferences

2010 - 2016

### **Researcher**

University of Genoa - Genoa - IT

Member of the Orientation Commission of Department - Member of the Equal Commission of The Polytechnic School of Genoa - Member of the PhD in Architecture and Design - Member of the Evaluation Commission for the assignment of Official Courses of the disciplinary sector 08 / E1 of the Department - Scientific Director International Conferences

2004 - 2005

### **Research grant fellow**

University of Genoa - DEUIM - Genoa - IT

Renewal of the research contract Optimization of the computerized methods for surveying applied to the analysis of architectural emergencies along the Genoese historical aqueduct - Scientific sector - disciplinary ICAR / 17 DRAWING at the Department of Construction Urban Planning and Materials Engineering (DEUIM).

2003 - 2004

### **Research grant fellow**

University of Genoa (DEUIM) - Genoa - IT

Fixed-term assignment for the research activity for the program  
Optimization of computerized methods for surveying applied to the analysis  
of architectural emergencies along the Genoese historical aqueduct  
Scientific-disciplinary sector ICAR / 17 DRAWING at the Department of  
Construction Urban Planning and Materials Engineering (DEUIM)

## *Work experience*

1996 - 2010

### **ARCHITECT**

FREE PROFESSIONAL ARCHITECT - Genoa - IT

Project Activity

## *Language skills*

### **English**

Proficient

Linguistic High  
School

### **German**

Independent

Linguistic High  
School

## *Teaching activity*

From the academic year 2011/12 to today :

### **Fundamentals of digital drawing**

(1st year) 4 cfu module of the Fundamentals of computer science for  
planning in the L17 Degree Course

Objectives and expected learning outcomes

Creation of a path that starts from the theoretical principles and reaches  
the new experimentations for the design project through the knowledge of  
the foundations of the new telematic languages and the new ways of  
representing and conforming the architecture. Knowledge of the evolution  
of the principles of representation and communication in the era of digital  
modeling and computer animation.

Contents and articulations of the course

The design of the project and its representation is addressed through the  
analysis of a path that highlights the conformation and representation  
potentialities of the new digital tools. Topics:

- Representation and modeling of architecture in the era of digital media.
- New means of communication and creativity in the representation of contemporary architecture.

The theoretical principles of topological surfaces, hypersurfaces, trans-  
architecture and liquid architecture are analyzed up to the experiences and  
design experiments of these concepts

From the academic year 2013-2014

### **Drawing workshop**

(1st year) 5 cfu co-teaching Degree course in DESIGN OF PRODUCT AND  
NAUTICAL

2014 to date

### **Foundations of Drawing**

(1st year) 4 cfu co-teaching Degree course in DESIGN OF PRODUCT AND NAUTICAL

**Objectives and expected learning outcomes**

The aim of the Design Laboratory is to structure theoretical and technical contents on a practical-experimental teaching aimed at the first formation of the student's personality to acquire expressive and appropriate skills in the field of representation. The design therefore, as a universal language and expression of concepts and sensations related to both the creative and the methodological aspects, structured on different topics, deals with the study of shapes, mechanisms and colors of the materials of objects of different sizes. The acquired skills allow to be developed in individual graphic and seminar drawings, especially in the latter with the intervention of external cultural contributions.

In the academic year 2012-2013

**Drawing and representation of the landscape**

(1st year) 6 credits in the Master's Degree Program in Planning of Green Areas and Landscape Interact with the University of Milan, University of Turin, Polytechnic of Turin

In the academic year 2011 - 2012

**Design workshop dedicated urban planning and landscape**

(1st year) 12 credits in the Bachelor of Science in Architecture curriculum Landscape Architecture Urban History curriculum

Inter-university with the University of Milan, University of Turin, Polytechnic of Turin

From the academic year 2010-2011 to today

**Representation of the Environment and the territory**

(3rd year) 6 credits in the Degree Course in Environmental Civil Engineering

From the academic year 2014-2015 to today

**Foundations and Practices of Representation 2**

(2 years) 8 credits Bachelor of Science in Architecture

**Objectives and expected learning outcomes**

The goal is to provide a specific preparation that makes the student able to correctly describe, through the design, the architectures and the urban and territorial environments. The topics covered during the courses are presented as a tool for investigating the issues related to reading, understanding and representation of the urban space and the territory, also aimed at planning, conservation, restoration and recovery.

Starting from the general, then from the methods of representation of the cartographies, definitions of territory, environment and landscape, analyzing the main themes of the national and international debate.

From 2015 International workshops

## ***Postgraduate research and teaching activity***

### **Supervision of PhD students, residents and post-doctoral**

## **fellows**

From 2016 Tutor of Phd Student research

## **PhD committees membership**

From 2013 Member of member of the Graduate Phd School in Architecture and Design of the Polytechnic School of Genoa

## ***Research interests***

Main Research Line:

SURVEY AND REPRESENTATION OF ARCHITECTURE AND THE ENVIRONMENT

sublines:

### **1. DIGITAL REPRESENTATION TECHNIQUES**

Application of different techniques of digital representation through direct and indirect surveys, direct observations, readings and image manipulation, historical and current cartography, with the objective of critically considering the project as an action in progress in the place and in time precisely through evaluations of possible future scenarios, also and above all through digital three-dimensional representations.

FUNDING:

2013 University Research Projects 2013 Research Title

The representation of the city: graphic conventions from analogue to digital

Duration 12 Role Covered: Scientific Responsible Outcomes: Monographs and Articles for International Conferences

### **2. NEW DETECTION TECHNOLOGIES FINALIZED FOR THE CONSERVATION AND PROTECTION OF ARCHITECTURAL AND CULTURAL HERITAGE PRESENT ON THE GENOVESE TERRITORY.**

Survey aimed at knowledge and cataloging through the experimentation and comparison of new detection technologies present in the current geomatic landscape and specifically the laser scanning , structure from motion and digital photo-straightening.

FUNDING:

2010 Projects University Research Call for Young Researchers

Research Title: New Sensing Technologies applied to some of the most significant oratories in Genoa.

Duration 12 Role Covered: Scientific Responsible

### **3. CHROMATIC VALUES OF ANTI-RUST SYSTEMS: HISTORICAL BUILDING AND CURRENT PROJECT**

Study of the chromatic values of the Old Centers with the identification of historical values through direct and indirect surveys (laboratory stratigraphic investigations); The social role of color urban redevelopment of satellite neighborhoods through the color tool; the color choices in the design strategies.

RESEARCH CONVENTIONS:

2011-2012 The Color Project of the Ancient Center of Albenga as part of the Research Agreement between the Municipality of Albenga, the Industrial Union of Savona and the Department of Architecture for the Faculty of Architecture. Scientific Manager Giulia Pellegrini. RESULTS: monographs and

international conference articles

2013-2015 Framework Convention between the Municipality of Genoa - Department DSA: The Social Role of Color: Urban Redevelopment of Satellite Neighborhoods through the Color Tool. Scientific Manager Giulia Pellegrì.

Results: international conference articles

2013 - Convention for the implementation of Training Events

Object of the convention is the activation of the following training event:

The History of Art, its developments, the identification of architectural profiles in the province. Survey, restoration, architectural and structural design, to be held in Alessandria at the headquarters of the Provincial Surveyor Geometers and Surveyors in the province of Alessandria.

Giulia Pellegrì has curated: the scientific and organizational coordination of the course, the didactic direction and the definition of the contents of the lessons on the theme of the Color Project in the Historical Centers.

2015 - 2016 'The painted facades of Strevi: precise study for the realization of a Color Plan 'of the historical center of Strevi'; Resp. Scient prof. ssa.

Giulia Pellegrì; Framework Convention between the Municipality of Strevi - DSA Department

4- DRAWING AS A FORM OF KNOWLEDGE FOR ARCHITECTURAL AND DESIGN PROJECT

Winner and scientific director of the Londinity Project as part of the London Festival of Architecture, June 2018

Research Agreement with the Municipality of Genoa on:

The representation of the sea - The graphic sign of the children interpreted according to the graphic communicative properties in the Design courses of the Polytechnic School of Genoa

## **Grants**

**2017 - 2018**

**Training service for educators and teachers working for civic services for children aged 0/6**

Municipality of Genoa - IT

800 - Pricipal investigator

**2016 - 2017**

**THE ANCIENT CENTER OF STREVI. Analysis surveys and schedules aimed at the Restauration and Safeguarding of Chromatic Values**

San Paolo Company - Municipality of Strevi (AL) - IT

10000 - Pricipal investigator

Regulation of interventions related to the color and the façade finishes, in order to develop a design culture for the management of the existing building heritage in terms correct requalification, recovery and restoration of the distinctive features of the place. The rules act as a tool for coordinating maintenance, restructuring and rehabilitation of walls, including not only dyeing surfaces but totality of the components within the design phase such as wood, iron and all that

contributes to form the chromatic perception of the building units.

2013 - 2014

**The representation of the city the graphic conventions from analogue to digital k-words Open spaces - digital drawing - detection - project**

University of Genoa - IT

5300 - Principal investigator

The act of drawing, understood as a profound change in the relationships between the historical and visual memory of places and the image that the territory acquires with the 'new' requires a critical ability to read the natural and anthropic landscape aimed at knowledge, through a stratified description of the places.

If over the centuries the urban space has modified in the user the idea of compact and defined city transforming it into a succession of elements that have affected the symmetries, the profiles, the typological and architectural overlaps, giving life to a fragmented and often without recognizable borders, it is in the current national and international debate that there is a need for a new sensitivity and criticality in tackling new projects, often more similar to artistic installations detached from the context that is not congruent to an initial situation environmental, not only from the structural point of view, but from the formal and responsible one.

From these considerations, the need arises for a project of knowledge that sees the theme of drawing and representation of the anthropized spaces as an essential design act.

The operation of identifying and choosing the levels of analysis, scales, shapes and design of the city and therefore of the landscape is, in itself, the first step of a critical operation of complex systems to identify the matrices of origin and of transformation. In fact put in place a deconstructivism to reconstruct the guidelines of the new design of urban spaces, also through the recovery and conservation of socio-cultural values relevant to the place of analysis.

The project of knowledge is articulated through different techniques of digital representation through direct and indirect surveys, direct observations, readings and manipulation of images, historical and current cartography, comparison of analogical and digital graphic language.

Drawing as an information through an analysis of the evolution of the graphic sign from analogue to digital (2d and 3d) a comparison of the evolutionary path of the graphic representation of the city from the century. XV to the XX century with the deepening of the discipline of Drawing in the Italian Schools of Relief and Representation (Turin, Rome, Genoa, Florence ...)

The research studies a portion of the Historic Center of Genoa by updating the Survey of the Historic Center of Genoa, edited by Prof. L. Vagnetti IN 1972 through digital drawing in 2d and 3d representations.

2012 - 2013

## **Analysis surveys and schedules aimed at the restoration and preservation of the color values of the historic center of Albenga**

Municipality of Albenga - Assorestauri Industrials Union of Savona - IT

34000 - Principal investigator

### **FIRST PHASE: THE SURVEYS ON THE CONTEXT**

The first phase involves an architectural survey and the color of the scope being studied, it is a phase of the interdisciplinary approach, as it invests different specialist issues, all essential to achieve the quality objectives that the project aims to achieve. The first preliminary phase dedicated to inspections, the identification of the area of interest, the study of the types of façades present and the development of the system for cataloging the same, followed by the defined one of the indirect surveys, aimed at retrieving historical data (archive images, documents from public and private archives) of the urban sector and individual buildings.

A separate phase must necessarily concern the analysis of materials, construction techniques and technological features of the building artefacts present in the area.

### **SECOND PHASE: SURVEY AND RELEASE**

The second phase involves the investigation of approximately 20 buildings by carrying out direct analyzes, surveys and diagnoses, which represent a fundamental phase for the 'Color Project', as they allow both to evaluate and identify the type of analysis required, and to acquire a timely and comprehensive knowledge of the history, the typology, the decorative scores, the shapes, the dimensions, the structures of the single building and the context in which it is inserted.

The survey and diagnosis operations are divided into:

- architectural survey, to be carried out in a direct, instrumental, topographical, photogrammetric and photographic way
- decorative chromatic survey relating to the architectural and decorative components of the building and therefore concerns both its overall perspective structure and the individual details, such as moldings bands, simple and complex ornamental elements. The color detection must be carried out according to the methodologies and classifications provided by the most widespread international standards (Munsell, ACC, CIE, etc.)
- Thematic survey: detailed analysis of the finishing layers of the materials that make up the façade of the building, their state of conservation and any degradation phenomena, if any.
- Scheduling of buildings, according to their historical, urban, architectural values, to the type of building, to the color values of the context, to the morphology of the facades.
- Data processing and graphic representation of the survey.

2011 - 2012

## **NEW SURVEY TECHNOLOGIES APPLIED TO SOME OF THE MOST SIGNIFICANT ORATORIES OF GENOA.**

University of Genoa - 2010 RESEARCH PROJECTS - PROCEPT RESERVED FOR

UNIVERSITY RESEARCHERS OF AGES BELOW 45 YEARS AT 31/12/2010 - IT  
3000 - Principal investigator

There is a research method aimed at qualitative and quantitative analysis through the use of a multidisciplinary approach for the survey in the field of Cultural Heritage and in the specific aspects of the speakers that characterize a dual operation: to detect from the real (together cognitive investigations aimed at understanding the object being analyzed) and translating into an ordered set of data and signs - through a critical synthesis operation - the information necessary to satisfy the purposes for which the survey was made. A methodology able to allow the reading of the multiple components both at the scale of the territory and at the urban scale, in view of conservation, restoration and recovery. Particular attention is paid to the relationship between the built and the orographic and geographical context of belonging; to the criteria of formation of the building fabric; the role played by each building within the urban context; to the historical linguistic matrix of the building; to the compositional-constructive characteristics of the building; to connective tissue.

### ***Editorial activity***

Reviewer of Miur Projects

2018 Special Editor for the Volume 4, Issue 3, July 2018, Special Issue on Drawing and Representation: Environment-Landscape-City Athens Journal of Architecture: A journal of The Architecture Research Unit of The Athens Institute for Education and Research ISSN NUMBER: 2407-9472: Atiner\_Special Edition- Issue\_Athens Journal of Architecture.

2017 MEMBER OF THE Peer Review Committee, n.39 JUNE 2017, The Edicom Edizioni Sustainable Project, Sixth Annual YEAR XIV, ISSN 1974-3327

2016 -2017-2018 Member of the Scientific Committee Reviewer Committee and Organizer of 7th and 8th Annual International Conference on Urban Studies and Planning, Athens Institute for Education and Research (ATINER).

### ***Assignments abroad***

2017 University of Valladolid- Visiting Professor

2018 Invited Professor at the Master in Urban Planning and Digital Representation at the University of Valladolid

2018 London Festival of Architecture-International Workshop about the Identity of London through the Urban Sketches