

# Giuseppe Gallo

## Curriculum

Nationality: Italian

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## Relevant Work Experiences

Jan 2014  
Present ● **Architectural Engineer**  
**Freelance**

Bagheria,  
Palermo, Italy

ARCHITECTURAL DESIGN

Digital consultant, 3D modelling, residential building design, urban design.

Sept 2007  
Present ● **Creative Director - Cofounder**  
**Mirabilia**

Bagheria,  
Palermo, Italy

COMMUNICATION DESIGN, DESIGN & PROJECT MANAGEMENT

I Founded Mirabilia during my university career to financially support my studies and gain experience in design field. Here I am responsible for developing and executing design concepts within leading-edge marketing and interactive solutions (Web, App, Industrial Design). Creating communication materials for online and offline mediums, websites and visual experiences.

[www.mirabiliaweb.net](http://www.mirabiliaweb.net)

Sep 2014  
July 2021 ● **Lecture Assistant**  
**University of Palermo**

Viale delle Scienze,  
Ed. 8 Palermo, Italy

TEACHING, TUTORING

Teaching assistant and tutor for courses in Architectural Composition within the Building-Architectural Engineering U.E. degree program.

Jan 2019  
July 2019 ● **Visiting Academic**  
**University of East London**

University Way, Royal  
Docks, London, UK

RESEARCH, TUTORING

Research on the impact of digital tools and machine learning methods on architectural design. Didactic activities within courses organized by Dr Fulvio Wirz for the MA Architecture and Urbanism.

Jan 2011  
Nov 2011 ● **Internship**  
**Massimiliano Giudice Architettura**

Via Pignatelli Aragona 82,  
Palermo, Italy

ARCHITECTURAL DESIGN

Architectural Survey, Urban Design.

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## Education

- Nov/2017  
Sept/2021

● **PhD in Architectural Design**  
**University of Palermo**

University of Palermo

Thesis: Architecture and second digital turn: How digital tools influences architectural design; Tutors: Prof. Giovanni Francesco Tuzzolino, Dr. Fulvio Wirz.

Focused on the applications of digital techniques within the professional practice in Architecture. Measuring the spread of different paradigms, from BIM, to numerical simulations, up to the adoption of machine learning methods. The research project is enriched by interviews with ten architects and researchers.
- Jan/2003  
Apr/2013

● **M.Arch/M.Eng Building-Architectural Engineering - U.E.**  
**University of Palermo**

University of Palermo

Thesis: Urban design of Notarbartolo headquarters of Palermo municipality, Final Grade: 110/110 - Graduation with Distinction; Tutor: Prof. Giuseppe Pellitteri

Calculus, Physics, Linear Algebra, Classical Mechanics, Structural Mechanics, Achitectural History, Architectural drawing,Architectural Technology, Urban Planning, Architectural Composition, Digital Design for Architecture, 3D Modeling, Building Science, Building restoration, Construction site organization.

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## Training & Certifications

- Oct 2013  
Present

● **Qualification as Civil Engineer**  
**Italian Engineers Professional Association**
- Mar 2021  
Jun 2021

● **Google Project Management: Professional Certificate**  
**Google Project Managers**

Coursera

Full course about contemporary project management: foundation of project management, project initiation, project planning, project execution, Agile project management (140 hours, plus training).
- 11 Mar 2019  
13 Mar 2019

● **Advanced Geometry and Collaboration**  
**Dassault Systèmes Developers**
- Beyond BIM 2019  
London

3D Generative Innovator and the Concept Building Designer, with a focus on the following CATIA applications: xGenerative Designer, Imagine and Shape, Building Space Planning and Building Structures.
- May 2017  
July 2017

● **Revit Architecture - BIM Advanced Modelling**  
**Eureka Engineering - Autodesk Authorized Training Center**

Eureka  
Palermo

Course focused on Autodesk Revit advanced Modelling, from conceptual mass modelling to the use of Dynamo and design of adaptive families.

<p>Nov 2016 Apr 2017</p> <p>Eureka Palermo</p>	<p>● <b>Revit Architecture - BIM User</b> <b>Eureka Engineering - Autodesk Authorized Training Center</b></p>	<p>Full course about Autodesk Revit, from user interface to BIM strategies and best practices to efficiently and effectively manage Revit in a team.</p>
<p>18 Nov 2014 23 Nov 2014</p> <p>Work In Co Rome, Italy</p>	<p>● <b>Ecologic Patterns - Advanced Grasshopper Workshop</b> <b>Arturo Tedeschi - L.P. Authorized Rhino Training Center</b></p>	<p>Mesh Subdivision Surfaces, Form Finding, Kangaroo, Mesh spring relaxation, Membranes, Hair System, Catenary, Discretization and Planarization, Pq Meshes, Galapagos genetic Solver, Modeling with Ecotect, Thermal Zone, Schedule, Weather Data, Geco, Analysis grids, Natural lighting calculation, shading, Acoustic Calculation.</p>
<p>16 Dic 2013 23 Dic 2013</p> <p>University of Palermo</p>	<p>● <b>Python Programming for Scientist</b> <b>University of Palermo - Internal Course</b></p>	<p>Introductory course to Python for numerical applications, subjects covered: Python basics, Tuples, Lists, and Dictionaries, Functions, Classes and OOP, Modules, Numpy and Scipy.</p>
<p>03 Oct 2011 07 Oct 2011</p> <p>Cineca Interuniversity Consortium, Bologna</p>	<p>● <b>Advanced School of Computer graphics for Cultural Heritage</b> <b>CINECA</b></p>	<p>Modeling cultural scenarios in an open pipeline from archeological and historical sources. The Blender pipeline. Cultural scenarios and a transmedial approach among cinema, web, TV, mobile devices.</p>

## Skills

### Organization and Communication

End-oriented work capacity, problem-solving attitude, propensity to good working relations, sense of organization, team management, external relationships.

### Job related skills

Architectural design, 3D Modelling, computational design, graphic design, digital design for architecture, project management, research, tutoring and teaching, urban design, dissemination of results.

## Digital Competences

### Advanced

Autodesk Autocad, Rhinoceros 3D, Autodesk Revit, Grasshopper 3D, Dynamo, Photoshop, Illustrator, Indesign, Karamba, Anemone, Kangaroo.

### Medium

Autodesk Maya, Python, Numpy, Scipy.

### Basic

Blender, 3ds Max, 3dexperience, MEL, Catia.

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## Languages

### Mother Tongue

Italian

### Other languages

English (C1 or higher) - onSET Zertifikat  
German (A2), Spanish (A2).

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## Invited talks

- 13 Mar 2019 ● **Zaha Hadid Architects BIM Group**  
Zaha Hadid Architects  
**Data, Software and Programming Languages in Architecture**  
Presentation of my studies on the diffusion of software, programming languages and data in contemporary architectural practices.
- 06 Jul 2016 ● **Hera Indica la via competition**  
Archaeological Park of Selinunte  
**Tools to improve the visibility of Cultural Heritage**  
Design and use of digital models to enhance the enjoyment of the cultural heritage.

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## Other teaching activities

- 25 Jan 2017 ● **Teacher**  
26 Jan 2017  
Engineers Ass. Palermo  
**Programming for Engineers**  
12 Hours of frontal lessons on Python language and its scientific applications
- 18 Apr 2016 ● **Tutor**  
21 Apr 2016  
University of Palermo - Arca  
**Python for scientific and engineering applications**  
36 Hours Course, with frontal lessons and exercises on Python programming language and its applications to science and engineering issues.
- 14 Mar 2016 ● **Teacher**  
18 Mar 2016  
Engineers Ass. Palermo  
**Python programming language for engineers**  
8 Hours of frontal lessons on Python language and its applications: from basis to numerical libraries and Object Oriented Programming

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## Awards

- 2017 ● **Honorable Mention**  
International Design Award  
**IDA international design award**  
Mecanoo Pattern Poster Serie.
- 2014 ● **Shortlisted project**  
Deutsche Bank  
**Future Banking Competition**  
Hybrid crowdfunding project based on digital participation.
- 2013 ● **People's choice award**  
Mozilla Foundation  
**Mozilla Firefox Flicks**  
Animated video on the right use of technology.
- 2012 ● **Winner**  
Italiacamp Foundation  
**La tua idea per il paese**  
Mobile application for sustainable tourism ad active citizenship.

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## Recognitions

- 2018 ● **Syntax Poster Series - BIG Bjarke Ingels Group**  
Graphic Design  
Architecture  
Nine posters designed to study the evolution of syntax in architecture.  
Featured on: Archdaily, Desigboom, World Architecture Community, Archilovers, We and the Color, Archinect, Architetti.com, and others.
- 2015 ● **Pattern Poster Series - Mecanoo Architects**  
Graphic Design  
Architecture  
Nine posters designed to explore the use of patterns in architecture.  
Featured on: Mecanoo Official Site, Designboom, I Like Architecture, World Architecture Community, Architect Magazine, We and the Color, A as Architecture, Arkitera, etc.
- 2011 ● **Four Logo designed for Mirabilia's clients**  
Graphic Design  
Featured on: Logo Design Book, Vol 3, Taschen, Köln.

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## Other Activities

- since 2015 ● **Archinerds**  
to present  
Architecture,  
Social Media  
**Main Editor**  
Archinerds is a curated social media on the relationship between image and architecture. Founded in 2015, it is followed by more than 200,000 architects and architecture enthusiasts.
- since 2013 ● **NEXT Association**  
to present  
Association,  
Technology  
**President**  
Association that deals with technological innovation and computer literacy in southern Italy, organizing events and programming courses.

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## Publications

- 2021 ● Gallo, G., 2021. **Digital and quarantine**, in Milocco Borlini, M., Califano, A., Urban Corporis Unexpected, Anteferma edizioni, Conegliano, pp. 284-290.
- 2021 ● Gallo, G., Wirz, F. 2021. **The evolution of the digital curve: from shipbuilding spline to the diffusion of nurbs, subdivision surface and t-splines as tools for architectural design**. Infolio, n.36, pp. 126-133.
- 2020 ● Gallo, G., Tuzzolino, G. F., Wirz, F. 2020. **The role of Artificial Intelligence in architectural design: conversation with designers and researchers**, in Soellner, M., Proceedings of S.Arch 2020, the 7th international conference on architecture and built environment, S.Arch, Tokyo, pp.198-206.
- 2019 ● Gallo, G., Wirz, F., Tuzzolino, G. F., 2019. **Architects as tool consumers: discovering trends in software and programming languages for architecture with google trends**, in Öztürk, O., Archtheo 19, proceedings of Dakam Archtheo conference, Archtheo, Istanbul, pp. 197-206.
- 2018 ● Gallo, G., Pellitteri, G., 2018, **Luigi Moretti, from History to Parametric Architecture**, in Huang, W., Williams, M., Luo, D., Yi-Sin, W., Yuming, L., Learning, Prototyping, and Adapting, Short Paper Proceedings of the 23rd International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA, Beijing, pp. 209-214.