

# FEDERICO GIANOLI

## GIS Analyst

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### SKILL AREAS

I have extensive expertise in the development of feasibility studies, master and structural plans. I am an expert in the development of the Geographic Information Systems (GIS), Remote Sensing and Database Management aimed at information and data processing.

- ESRI ArcGIS, ESRI Drone2Map
  - QGIS
  - PostgreSQL and PostGIS
  - Urban and Territorial Planning
  - GIS and Database Lecturer
  - UAV, Pix4d, Trimble UX5
  - WebGIS Lizmap, Geonode, Geoserver
  - Adobe: Photoshop, Illustrator, InDesign
  - Envi and Remote Sensing
  - GIS Analyst – Network Analyst
  - GPS and Photogrammetry
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### WORK EXPERIENCE

**SGI-STUDIO GALLI ENGINEERING** *Padua, Italy* (March. 2017 - Present)  
*Leading Italian consultancy firm specializing in the sectors of water, environment and renewable energy.*

#### GIS ANALYST AND WEBGIS

- WebGIS Specialist

#### ***Main Projects:***

##### ASHRI 2

A Geonode project for UNESCO, in order to present the hydrogeological data of Iraq, collected by SGI Studio Galli Ingegneria.

**MOBILITY IN CHAIN** *Milan, Italy* (Sept.-Oct. 2016)  
*MIC is a transport-planning firm based in Milan, Moscow and New York. The firm operates on an international level.*

#### GIS ANALYST

- Production and analysis of GIS data
- Network analysis

#### ***Main Projects:***

##### Study of catchment areas for Bologna airport

Study of mobility and accessibility of the major Italian airports to understand the current and future catchment areas.

**UNIVERSITY OF PADUA** *Padua, Italy* (March. 2015 – Present)  
*One of the oldest and most prestigious public universities in Europe with over 60,000 students*

#### TUTOR AND LECTURER

- Tutor and Lecturer in the master in GIScience and Unmanned System for the integrated management of the territory and the natural resources

#### ***Main tasks:***

##### Tutor

Organization of the GIS teaching and lectures in GIS, Photogrammetry and WebGIS with Lizmap, Geonode/Geoserver.

**GIS ANALYST**

- Photogrammetry and GIS analysis
- UAV Pilot

**Main Projects:**

Landfill of Santurbano

Photogrammetric survey of more than 50 hectares of the landfill of Santurbano, one of the biggest landfills in the North of Italy, using UAV Trimble UX5 and GPS systems for data collection. Data analysis and creation of a detailed cartography.

**4LAND NATURE DYNAMICS** Trento, Italy

(Oct. 2014 – Present)

Company of hiking maps and supplier of cartography for the Alpine Rescue of Trentino Region.

**GIS ANALYST**

- Relief hiking paths with GPS and analysis of geographic data
- Analyzed geographic information and produced maps

**ENOIA GROUP** Dubai, United Arab Emirates

(Dec. 2015)

Multinational engineering company

**GIS ANALYST**

- Production and analysis of geographic data
- Production of thematic cartography

**Main Projects:**

Shichahai urban plan (Beijing, China)

Production and analysis of geographic data and thematic maps in GIS and Illustrator to support the urban renewal plan of Shichahai in the historic center of Beijing.

**SGI-STUDIO GALLI ENGINEERING** Padua, Italy

(Feb. 2013 - March 2015)

Leading Italian consultancy firm specializing in the sectors of water, environment and renewable energy.

**GIS ANALYST**

- Analyzed geographic information and produced project maps under tight deadlines.
- Organized geographical data into Geodatabase and wrote comprehensive reports.
- Made recommendations for territorial development and urban planning projects on an international team.

**Main Projects:**

Structural Plans for Basra, Maysan, and Thi Qar Governorates

Worked with local administrations as a GIS and Rural Development Strategy Expert to deliver extensive recommendations to guide the development of the infrastructure, natural resources, socio-economic aspects, public services, public facilities, water supply and sewerage of the region. The phases of research and information collection were developed through extensive field surveys and data-gathering from national and local offices. All three projects were worth over 3 million dollars and involved an international team of over two dozen people.

Master Plan for the Municipalities of Baijii, Sharquat, Dowr, and Tuz

Developed a 25-year master plan for the Governorate of Salah al Din to create a more dynamic future for citizens including tourism, economic efficiency, social equity, and transportation with special attention to the region's natural environment and heritage.

National Atlas of Marshes and Wetlands for CRIM in Iraq

Worked as a GIS Expert for the Center for the Restoration of Iraqi Marshes and Wetlands to identify and describe the most important wetland sites for the purpose of conservation. Accurate site description and characterization was completed by office and field surveys, and by remote sensing analysis combined with historical data.

Resource Plan for the Water Resources Ministry of Uganda

Created detailed cartography for the future development of water supplies and sewage networks in the towns of Katwe, Koboko, and Rukungiri in the Northern and Southwest regions of Uganda.

**GEOGRAPHICA SL**, Seville, Spain

(Sep 2012 - Present)

*Innovative Spanish company leading in GIS technology including web resources and mobile applications.*

**ITALIAN TRADE MANAGER**

- Act as sales liaison between company and potential clients including Italian public administration officials.
- Evaluate public services infrastructure, created detailed cartography, and wrote comprehensive reports.
- Manage project database and digitized existing cartography.

***Main Projects:***

***Mirador Regional WebGIS Project***

Worked as part of a local team to create an interactive web map viewer that allows access via the internet to the infrastructure, equipment, and services of the 102 municipalities in the province of Seville, Spain.

**FONDAZIONE FENICE ONLUS** Padua, Italy

(Sep 2007 - Present)

*Non-profit research, education, and experimentation center focused on eco-friendly systems.*

**GIS LECTURER AND PROJECT DEVELOPER**

- Develop environmental and educational projects funded by the EU as well as regional and private donors.
- Create informational material and design tours used by over a dozen tour guides.
- Facilitate GIS training for high school students financed by an EU educational grant.
- Maintain grounds, preserve facilities, and complete routine building maintenance.

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**LECTURESHIPS**

**UNIVERSITY OF PADUA** Padua, Italy

*One of the oldest and most prestigious public universities in Europe with over 60,000 students.*

**LECTURER**

- GPS mobile apps to collect GIS data, for 30 students in October 2016
- WebGIS training for 25 students of Engineering Department in May 2016
- Facilitated a GIS training for 40 students of Natural Science Department in April 2016
- Created and facilitated two-day workshop on GIS and Biodiversity for 50+ students in the Department of Civil, Environmental and Architectural Engineering in December, 2013.

**CAI SEZIONE DI PADOVA** Padua, Italy

**LECTURER**

- Facilitate GPS training in order to use a Smartphone in an alpine contest.

**AGENDA 21 CONSULTING** Padua, Italy

*Italian consulting company that provides green solutions for city and state officials.*

**LECTURER**

- Facilitated three-day workshop on QGIS and Relational Database Management (PostgreSQL & PostGIS) for Agenda 21 employees in March, 2015.
- Created and facilitated three-day workshop on QGIS for Agenda 21 employees in April, 2014.
- Created and facilitated week-long course on QGIS and Geographical Information Systems for the Regional Park of Alta Valle Antrona in Villadossola, Italy in January, 2014.

**Tecna SOC. CONS. A.R.L.** Padua, Italy

*Italian company focused on job-training and continuing education for companies and the unemployed.*

**LECTURER**

- Created and facilitated two-week course on GIS and Renewable Energy for 30 unemployed students as part of a job-training program funded by the European Union in February, 2014.

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## EDUCATION

- **Master's Degree in Management and Organization of Regional and Local Processes**,  
2012 University of Seville, Spain.
- **Bachelor's Degree in Geography of Regional Processes**  
2011 University of Padua, Italy. *Winner of Erasmus Scholarship 2009-2010 at University of Seville.*
- **Continuing Education:**
  - GRASS** 3-Day Course, University of Padua (Mar. 2015).
  - GeoDatabase with QGIS** 3-Day Course, University of Padua (Mar. 2015).
  - GeoDatabase Open Source and PostgreSQL/PostGIS** 2-Day Course, University of Padua (Nov. 2013).
  - Remote Sensing with Envi** 3-Day Course, University of Padua (Oct. 2013).
  - WebGIS with QGIS** 2-Day Course, Faunalia SRL Company (Sept. 2013).
  - GeoDatabase and Data Management** 1-Week Course, Geographica SL Company (Nov. 2012).

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## LANGUAGES

**ITALIAN** (*mother tongue*) ♦ **SPANISH** (*fluent*) ♦ **ENGLISH** (*fluent*)