

Francesco Costanzo

Geotechnical Engineer

Via Castroregio, 20 - 00178 Roma - Cell: 329 73 81 197 - E-mail: f.costanzo087@gmail.com
Born 24/12/1987, Italian Nationality



PERSONAL SUMMARY

Geotechnical engineer with 2 years of consulting experience in site investigation (planning and interpretation), analysis and design of tunneling, slope stability and piled raft foundation for municipal and civil infrastructure projects.

After my M.Sc I did a Postgraduate Professional Master in geotechnical design. It was an intensive and enriching experience during which I had the opportunity to work with students with excellent academic careers and work experience. Above all, I was honoured to be able to work and study with top professors, an experience that further strengthened my already deep passion in all aspects of geotechnical engineering. Energetic and conscientious, with a lot of enthusiasm and curiosity, I am honest and respectful, quick to pick up new skills and eager to learn. I enjoy the challenge of great projects and of high expectation environments driven for excellence. I also have good attitude to problem solving and definition of optimal solutions. During my academic career I also worked occasionally as a waiter, tennis trainer and as a croupier. To this I owe my ability to be courteous, precise and focused.

Throughout my life I have always planned and managed my time to achieve a good balance between my studies and other interests such as sports, especially those that can be practiced outdoors. I have played at a competitive level at both football and tennis.

EXPERIENCE

2015.09 - Present **Geotechnical Engineer at GPIgegneria**
Project engineer for infrastructure works with following duties: provide technical support to Senior Engineers on both office and site-based works; plan and explication of geotechnical investigation; produce geotechnical calculations for:

- tunneling and cut and cover tunnel,
- deep and shallow foundations,
- retaining structures for deep excavations
- ground improvement;
- soil and rock slope stability,

liaise with the graphics team to produce engineering drawings; collaborate with members of other multi-disciplinary teams to assist in the effective delivery of projects; identification of improvement actions needed and related cost/benefit analysis in order to optimize the client's resources.

06.2017 - Present **Professional collaboration with Parthenope University of Naples**
In collaboration with Prof. G. Viggiani (University of Cambridge) and Prof. L. De Sanctis (Parthenope University of Naples) I'm studying the bearing capacity of Piled Raft foundations in soft clay soils under lateral loading by means of Flac3D numerical analysis.

EDUCATION

2014-15 **Sapienza, University of Rome** Rome, Italy
Postgraduate Professional Master (2nd level) in Geotechnical Design, (60 ECTS)
1 semester: - Geotechnical Modelling; - Soil and Rock Characterization by Field and Laboratory Test
2 semester: - Tunneling (TBM and Traditional boring method); - Soil and Rock Slope Stability Design;
- Piled Raft Foundation Design; - Deep Excavation (retaining struct., Cut and Cover Tunnel);
It was a really enriching 1 year experience in which, in addition to aforementioned courses, specialists and top professors held interesting seminars on: Geology; ground consolidation; well points and dragflow, maritime structures, dams, rockfall protection techniques, geotechnical and structural monitoring; all associated with technical field trip.

2011-14 **Tor Vergata, University of Rome** Rome, Italy
Master degree in Engineering and Building Techniques, M.Sc. (120 ECTS)
Thesis on «Numerical Analysis of soil, pile and raft foundation interaction in cohesive soils». The degree prepared me for work in the building sector. It tackled concepts such as sustainability and energy efficiency, as well as conservation and improvement of built heritage.

2012 **Territorial Joint Committee of Rome and Province** Rome, Italy
Safety Coordinator during Design Phase / during Execution Phase
Drafting Safety and Coordination Plans

CERTIFICATES & ACTIVITIES

2015/05 **Attendance certificate «Practical injection workshop for underground** Hagerbach, Switzerland
BASF Construction Chemicals at the Hagerbach experimental tunnel
Practical, full scale demonstrations of the various technologies for ground consolidation, waterproofing and/or water inflows reduction and concrete reclamation in the context of underground work

2014/12 **workshop and field demonstration about DMT and SDMT dilatometers** Cesano, Italy
Studio Prof. Marchetti S.r.l.

ADDITIONAL INFO

skills Good organisational and managerial skills even in stressful situations acquired by performing multiple simultaneous tasks; excellent relation and communication skills acquired in sports, both practicing and teaching, and in my educational career.

Languages and IT Skills **Italian** (Fluent), **English** (working proficiency), **French** (working proficiency).
Very good use: Office Suite, Flac, Flac 3D, Plaxis, AutoCad, Dips, Unwedge, Swedge, Rocscience package
Basic use: Geostudio package, Clara, Grapher, MathCad, Revit, AutoCad Architecture

Other Interests Sustainability, Environment, Tennis, Beach Volley, Beach Tennis, Football, Windsurfing, Finance