

CARMELO LUCA SICILIA

Civil Engineer

CONTACT

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Date of birth 17-07-1986



ACADEMIC QUALIFICATION:

November 2014 – Ongoing
Master (Third cycle) "**Geotechnical Design**" at
Sapienza University of Rome

November 2012 - 2014
Master (Third cycle) "**Territory defence and
environment protection**"
Mediterranea University of Reggio Calabria

October 2009 - December 2011
Master degree (second cycle) in Civil Engineering
Mediterranean University of Reggio Calabria.
Vote: **110/110 summa cum laude**.

October 2005 - July 2009
Bachelor Degree in Civil Engineering
Mediterranean University of Reggio Calabria.

COURSES:

Short course in *Jet Grouting* (9 hours)
At Master in Geotechnical Design

Short Course in *Geotechnical Earthquake Engineering*
(12hours)
At Master in Geotechnical design

4-6 May 2015
BASF Injection Workshop, Hagherbach Test Gallery

LANGUAGES

Italian Mother Tongue
English Professional knowledge
FCE in English

INFORMATIC SKILLS

Excel, Autocad, Word, HEC-RAS, Plaxis, Quantum
GIS, ArcMap, Archicad, Adobe Photoshop, Matlab.

INTERNATIONAL EXPERIENCE:

9-14 June 2013 Nantes, France
Ocean, Offshore and Arctic
Engineering 2013
Conference Speaker
9-11 April 2013 Gran Canaria, Spain

14-19 August 2012 Coastal Processes 2013
Conference Speaker
Gdansk-Berlin
Holiday

ADDITIONAL INFORMATION

- Private teacher of: Geotechnical, Hydraulic
Constructions, Hydraulic, Hydrology, Building Science
(4 students)
- Tutor for theses in hydraulic works, coastal
construction and hydrology (5 Students)

ASSOCIATIONS

AGI: Italian Geotechnical Association (since 2015)
SIG: Italian Gallery Society (since 2015)
IGS: International Geosynthetics Society (since 2015)
EURECa Student Association: Founder (2008)
EURECa Senior Student Association: Founder and
President (2010-2012)

REFERENCES

Available on request

WORK EXPERIENCE

19 February 2014 – ongoing
Design of maritime structures related to the Pentagon
Seaside Receptive Structures – Sant’Ilario dello Jonio,
Reggio Calabria Italy.

February 2015 – May 2015
Town Council of Montebello Jonico, (RC) Italy -
Mitigation of landslide risk in the town of Masella,
Montebello Jonico, (RC) Italy.

September 2014 – ongoing
Public prosecutor at the Court of Reggio Calabria -
Member of the CTU board: *Risk assessment of urban
settlements* near XXXXX River (Reggio Calabria).

June-August 2014 - Getotecnical s.r.l.
Assistant in monitoring the excavation of a 2.7 km
tunnel through a TBM double shield. Customer Terna
Spa.
Location: Favazzina, Reggio Calabria city, Italy.

November 2013 At Geotecnical srl

Design of Hydraulic works related to the construction of Marina di Costa Viola Port, Scilla – Reggio Calabria.

February - June 2014

Mediterranean University of Reggio Calabria, "*Wave modelling along the Calabria Coasts*".

Calabria Basin Authority - Government - Internship -flood risk, GIS

March 2014 - Regional Directorate for Cultural Heritage and Landscape of Calabria.

Kaulon Archeological Site, *Design of a Rubble mound breakwater*.

Flood risk assessment in the San Vincenzo River, Motta S Giovanni (RC)

Client: "Irrigation Association Cappella Vecchia", "Irrigation Association Calopinace"
Hydrological study and assessment of water supply preparatory to the request for authorisation for use of public water.

SCIENTIFIC PUBLICATIONS

- "*Evaluation of the horizontal wave forces on Piles*". Journal of Air, Soil and Water Research Volume 7, 2 August 2014 pp. 103-110. Sicilia C. L. et al..
- "*A formula for the calculation of the longshore sediment transport including spectral effects*". Journal of Coastal Research, Volume 30, Issue 5, 2014, Pages 961-966. Sicilia C.L. et al..
- "*Coastal erosion in the South of Italy*". Disaster Advances, Volume 7, Issue 3, March 2014, Pages 37-42. Sicilia C.L. et al..
- "*Protection and Management of the Annunziata River Mouth Area (Italy)*". Journal of Air, Soil and Water Research, Volume 6, 31 October 2013, Pages 107-113. Sicilia C.L. et al..
- "*Wave forces on upright breakwater, evaluation and case study*". Disaster Advances, Volume 6, Issue 10, October 2013, Pages 90-95. Sicilia C.L. et al..
- "*Analysis, evaluation and innovative methodologies to prevent coastal erosion*" WIT Transactions on Ecology and the Environment, Volume 169, 2013, Pages 219-230. Sicilia C.L. et al..

INTERNATIONAL CONFERENCE

- IDRA14 – XXXIV Convegno Nazionale di Costruzioni Idrauliche Bari - 8-10 Settembre 2014. "*Gestione sostenibile delle acque meteoriche nei centri urbani: caso studio Cittanova (RC)*", Sicilia C.L. et al..
- IDRA14 – XXXIV Convegno Nazionale di Costruzioni Idrauliche Bari - 8-10 Settembre 2014. "*La riqualificazione fluviale. Un approccio integrato per la gestione del bacino del fiume Petrace (RC)*", Sicilia C.L. et al..
- IDRA14 – XXXIV Convegno Nazionale di Costruzioni Idrauliche Bari - 8-10 Settembre 2014. "*Modellazione del moto ondoso lungo le coste della Calabria*", Sicilia C.L. et al..
- IDRA14 – XXXIV Convegno Nazionale di Costruzioni Idrauliche Bari - 8-10 Settembre 2014. "*Valutazione dei processi evolutivi in prossimità della foce della fiumara Amendolea (RC)*", Sicilia C.L. et al..
- 32nd International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2013. Nantes, France, June 9-14, 2013. "*Maximum wave forces: evaluation and case studies*". Sicilia C.L. et al..
- 3rd International Conference on Physical Coastal Processes, Management and Engineering. Gran Canaria, Spain, 9 - 11 April 2013. "*Analysis, evaluation and innovative methodologies to prevent coastal erosion*", Sicilia C.L. et al..
- SCACR – International Short Course/Conference on Applied Coastal Research. Lisbon, Portugal, June 11-14, 2013. "*Estimate of sediment transport rate at the mouth of the Annunziata River (RC, Italy)*". Sicilia C.L. et al..
- Fourth International Conference on the Application of Physical Modelling to Port and Coastal Protection, Coastlab 2012. Ghent, Belgio, Settembre 2012. "*A new discussion of longshore sediment transport with experimental data*"; Sicilia C.L. et al..
- Congresso Nazionale della Società Geologica Italiana". Arcavacata di Rende (CS), Settembre 2012. "*Stima della capacità di trasporto solido nel bacino della Fiumara Annunziata (RC)*." 86° Sicilia C.L. et al..