

CURRICULUM VITAE of

RONCHI FEDERICA

Personal data

Date of birth 30.05.1986

Nationality Italian

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Current Position

Ph.D. candidate in “Civil Engineering and Innovative Materials – XXIX Cycle”

Affiliation: University of Perugia – Department of Civil and Environmental Engineering.

Education and Training

01/07/2013: Winner of a post-lauream scholarship "Regional Competitiveness and Employment". Project title: “Innovative sources of energy: energy efficiency assessment of geothermal piles” Affiliation: University of Perugia – Department of Civil and Environmental Engineering.

10/05/2012: Master Degree Summa Cum Laude in Civil Engineering at the University of Perugia. Topic of the dissertation: "Studio dell'efficienza di pali geotermici per la fondazione di un serbatoio pensile" (in Italian)

27/02/2009: Bachelor Degree in Civil Engineering at the University of Perugia, 108/110.

Seminars and courses

02/06/2014 – 02/06/2014: “Advanced Numerical Modelling in Geomechanics”, 6th ALERT Olek Zienkiewicz Course, Madrid, Spain.

07/04/2014 – 09/04/2014: “Introduction to Scientific and Technical Computing in C++” - CINECA, Bologna, Italy.

13/02/2014 – 14/02/2014: "Mechanics of Porous Media" - University of Florence, Italy.

Main Research Interest

[1.] Constitutive modeling of thermo-hydro-mechanical behavior of fine-grained soil

- [2.] Modeling of thermo-hydro-mechanical effects induced by energy piles operation in deep foundations
- [3.] Coupled multiphysics modeling of porous media
- [4.] Environmental applications of geothermal energy

Scientific publications

International Journal and Books

- [1.] Salciarini D., Ronchi F., Cattoni E., and Tamagnini C. (2013). "Some Remarks on the Thermomechanical Effects Induced by Energy Piles Operation in a Small Piled Raft." *Int. Journal of Geomechanics*, ASCE, 10.1061/(ASCE)GM.1943-5622.0000375 (Nov. 14, 2013)

National Conference Proceedings

- [1.] Salciarini D., Ronchi F., Cattoni E., and Tamagnini C. (2014). "Effetti termomeccanici indotti dal funzionamento di pali geotermici". In: *Proc. IAGIG 2014*. L'Aquila, Italia, 11-12 Aprile 2014

Participation to Scientific Research Program of National and International Relevance

2012 – Project TIAR “Edilizia rurale Innovativa Sostenibile con Autonomia Energetica e Torre Idraulico-energetica Architettonica Rurale”, funded by Ministero per le Politiche Agricole e Forestali.

Other Work Experiences

- [1.] Professional consulting in collaboration with "Studio Tecnico STA Engineering" - San Felice sul Panaro (MO)
- [2.] Professional consulting in collaboration with "Studio Tecnico Ciabilli-Pasquarelli" - Gualdo Tadino (PG)

Perugia, May 2014.

Federica Ronchi