Pietro Marveggio

pietro.marveggio@polimi.it
pietro.marveggio@gmail.com

OVERVIEW

Having obtained my MS in Civil Engeeniring (Track Geotechnics) at Politecnico di Milano in April 2018, I am currently a PhD student in the same institution. My main research interests are landslides, granular material constitutive modelling with specific focus on phase transition in both dry and saturated conditions and numerical modelling in large displacement for geotechnical applications.

EDUCATION

PhD Structural, Seismic and Geotechnical Engineering 2018-
Politecnico di Milano

MS Geotechnical Engineering 2015-2018
Politecnico di Milano
Cum Laude. Thesis advisor: Prof. Claudio Giulio Di Prisco
"Saturated granular flows: Constitutive modelling under steady simple shear conditions"
Formulation of a constitutive model for granular suspensions under steady state simple shear conditions following the Theory of Mixtures approach. The model is based two state variables, the concentration and the granular temperature, and takes into account both the coupling between the two phases and the energy balance of the systems.

BS Civil Engineering 2012-2015
Politecnico di Milano
Cum Laude. Thesis advisor: Prof. Claudio Giulio Di Prisco
"Analisi teorica di processi di impatto di mezzi granulari su ostacoli rigidi"
Interpretation of DEM numerical simulation of impact forces of dry granular masses on rigid barriers under elastic and visco-elastic constitutive models.

WORK EXPERIENCE

Politecnico di Milano May 2018-October 2018
Piazza Leonardo da Vinci 32, 20133 Milano
Internship in numerical simulation in large displacement framework, MPM method.

Deltares May 2018-July 2018
Boussinesqweg 1, 2629 HV Delft (The Netherlands)

Internship in MPM method application and development (ANURA3D code).

PUBLICATIONS

D. Vescovi, P. Marveggio, C. di Prisco. Saturated granular flows: constitutive modelling under steady simple shear conditions. Géotechnique, 2019, 1–13.

I. Redaelli, P. Marveggio, C. di Prisco. Constitutive modelling of phase transition in granular materials. 2nd International Conference on the Material Point Method for Modelling Soil-Water-Structure Interaction, Cambridge (UK), January 2019.

LANGUAGES

- English (Fluent)
- French (Good)

Autorizzo al trattamento dati ai sensi del GDPR 2016/679 del 27 aprile 2016 (Regolamento Europeo relativo alla protezione delle persone fisiche per quanto riguarda il trattamento dei dati personali).
Autorizzo inoltre la pubblicazione del Curriculum Vitae sul sito istituzionale del Università di Brescia in ottemperanza al D. Lgs n. 33 del 14 marzo 2013 (e s.m.i.).