

Maria Luisa Taccari

Enthusiastic Independent Geotechnical Engineer eager to develop strong knowledge. Talented Researcher with excellent problem-solving, critical thinking and programming skills. Highly effective at juggling multiple tasks and planning projects development. Offering four years of related experience.



Personal Info

Address:

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Skills

Self-development
Problem-solving
Behavioral Flexibility
Time management
Critical Thinking



Software

Phyton

Matlab

Plaxis

Deltares D-Series

QGIS



Languages

Italian

English

Dutch

Spanish

Portuguese



Work History

Researcher PHD Student - 10/2020 to Current

University of Leeds, Leeds, United Kingdom

- Physics informed Deep Learning for groundwater prediction.

Researcher & Consultant - 10/2015 – 10/2020

Deltares, Delft, The Netherlands

- Conducted Finite Element Modeling of dikes under unsaturated conditions and temporal groundwater analysis using Deltares software D-Geo Flow
- Post-processing of water pressures data after full scale tests of a dike subjected to severe wave attack
- Advised on assessment of dike stability in the Netherlands, design land reclamation in Myanmar and implementation of monitoring system for hydropower dams in India.
- Performed work according to project schedules and established quality standards.
- Mentored a Master student for 6 months and coordination of the execution of innovative laboratory scale element tests.
- Published 5 papers as first author and gave the conference presentations highlighting finds of research.

Geotechnical Engineer/Researcher - 08/2015 to

09/2015

Kasetsart University, Bangkok, Thailand

- Collaborated successfully with researcher team and HAI (Hydro and Agro Informatics Institute)
- Performed discharge measurements and site visits for embankment erosion and stability

Research Intern - 09/2014 to 07/2015

Deltares, Delft, The Netherlands

Master of Science: Civil Engineering - 10/2013 to 07/2015

TU Delft, Delft, the Netherlands

- **Graduated cum laude**
- Majored in Geo-Engineering
- Thesis: Study upon the possible influence of animal burrows on the failure of the levee of San Matteo along the Secchia river.
- Received Scholarship as Excellent Master student to take part in the summer course "Successful Leadership, Innovation, and Entrepreneurship within the Energy Sector", Politecnico of Milano, summer 2014

Bachelor of Science: Civil Engineering - 09/2010 to 07/2013

University of Padua, Padua, Italy

- **Graduated cum laude**
- Thesis: "Study upon failure mechanisms of flood defences"

High school - 09/2006 to 07/2010

Liceo Scientifico Giorgione, Castelfranco Veneto, Italy

- **A-level: 100/100**

 Relevant Trainings

09/2018	Soil mechanics and foundation engineering 1 (PAO)
09/2018	Data Science Course (JADS)
04/2016	Risk Analysis in Civil Engineering (PAO)
09/2019	Time-management (Timension)
03/2018	Writing advice and research reports (Boertien Vergouwen Overduin)
09/2018	Self-leadership Course (Touche)

 Publications

2019	M.L. Taccari, V. Galavi, F.S. Tehrani & A.S. Elkadi, <i>Resilience of road embankments under changing climate: A numerical study</i> , XXVIth World Road Congress 2019
2019	M.L. Taccari, C. Zwanenburg, <i>Large scale triaxial compression tests on three peat samples from Eemdijk, the Netherlands</i> , XVII ECSMGE Reykjavik
2018	Maria Luisa Taccari, Matteo Pasqualini, <i>Monitoring and Forecasting of saddle dams and main dam on Bhadra reservoir (India) FMFM 2018</i> , International Symposium on field measurements in geomechanics
2017	André René Koelewijn, Maria Luisa Taccari, Vera Maria van Beek, <i>A field experiment with fibre optics detecting groundwater flow and piping behind a summer dike</i> ; 85th Annual Meeting of International Commission on Large Dams, Prague, Czech Republic
2017	Ton Peters, Frans van den Berg, Maria Luisa Taccari, <i>Real time stability monitoring</i> International Dam Safety Conference - 2018

- 2016 Maria Luisa Taccari and Raymond van der Meij, *Investigation of the influence of animal burrowing on the failure of the levee of San Matteo along the Secchia river*, E-UNSAT 2016 - 3rd European Conference on Unsaturated Soil
- 2016 Maria Luisa Taccari and Raymond van der Meij, *Study of the effect of burrows of European Badgers (Meles meles) on the initiation of breaching in dikes*. FLOODrisk 2016 - 3rd European conference on Flood Risk Management



Interests

Data Scientist volunteer at the Dutch Red Cross

Past volunteering projects in Jordan, Uganda, Ecuador, Italy, Germany and Spain

Organizer of volleyball competition within Deltares

Tennis Player (strength 7 according to national rating)

Piano Player, attending weekly lessons

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