

UNIPD Supervisor: Antonia Larese

Project: MONUGEO - Modern numerical methods for high-fidelity simulation of geohazards



Coordinator: Universitaet Fuer Bodenkultur Wien

Beneficiary: Università degli Studi di Padova

UNIPD Supervisor: Antonia Larese

Department: Department of Mathematics

Total Contribution: € 78 200,00

Project Duration in months: 48

Find out more: <https://cordis.europa.eu/projects/en>

Antonia Larese is Associate Professor in Maritime and Hydraulic Constructions and Hydrology at the University of Padova, Italy (2021) and Hans Fischer Fellow at the Institute of Advanced Studies of the Technical University of Munich TUM-IAS, Germany (2021).

She received her MSc in Civil Engineer by the University of Padova, Italy (2006), M.Sc.in Numerical Methods (2011) and PhD in Structural Analysis (2012) by the Technical University of Catalonia (UPC), Spain. Between 2008 and 2018 she has been working at the International Center for Numerical Methods in Engineering CIMNE, Barcelona and she has been part time lecturer at the Civil Engineering School of UPC, Barcelona, Spain.

She works in computational mechanics with a special focus on coupled problems. She has worked with different numerical approaches, from finite elements to continuum-based particle methods, in both Lagrangian and Eulerian frameworks. She has worked on the development and combination of different numerical techniques for the analysis of coupled problems considering free surface flows, non-Newtonian materials and fluid-structure interaction, including unfitted techniques.

Her main research focuses on the simulation of the impact of natural disasters on structures and protection systems.

She was the coordinator of the MSCA-RISE project TCAiNMaND - Tri Continental Alliance in Numerical Methods applied to Natural Disasters FP7-PEOPLE-2013-IRSES, Ref.: FP7- 612607, 01/01/2014 – 31/12/2017 and she will be the head of unit for the MSCA-SE “MONUGEO”.