PERSONAL INFORMATION

Concetta D'Amato

Università di Trento, Centro Agricoltura Alimenti e Ambiente, Via Edmund Mach, 1, 38010 – San Michele all'Adige (TN)

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Sex Female

Data of birth 12/07/1994 - Palermo

Nationality Italian

EDUCATION AND TRAINING

July 2020

Ordine degli Ingegneri di Palermo
Università degli Studi di Palermo, Italy – Graduation to Professional Civil-Environmental Engineer (Italian Legislation)

November 2019 - Present

PHD Programme in AGRIFOOD and ENVIRONMENTAL SCIENCES
University of Trento, Italy
PhD student of 35th cycle (academic year 2019/2020) of the PhD Programme in agrifood and environmental sciences, C3A – Center Agriculture Food Environment, University of Trento.

September 2017- October 2019

Master's Degree in Engineering and Innovative Technologies for the Environment
Università degli Studi di Palermo, Italy

Title Master Thesis: Implementation of a numerical model of lysimeter and first applications in agriculture and forest management.
Implementation of a virtual lysimeter model capable of reproducing the real dynamics of the soil - water - vegetation system. The model implemented in the context of this thesis, Broker, constitutes the connection component between the infiltration and evapotranspiration models, part of the GOEframe - NewAge project, for the realization of the virtual model of lysimeter, Lysimeter 1.0.
This thesis deal with measurement and estimation of infiltration and evapotranspiration processes, tools available today and numerical methods developed for the integrated modeling of the physical processes in question. Lysimeter 1.0 model puts togheter the in-depth study of the processes infiltration and evapotranspiration and programming skills of Java and Python languages acquired during the training course.

Vote 110/110 cum laude

September 2013 - March 2017

Bachelor's Degree in Environmental and Land Engineering
Università degli Studi di Palermo, Italy

Thesis: Analysis of the slope stability of the Vallone Sercia affluent of the F. Milicia using the SHALSTAB model
Experimental thesis of slope stability analysis of the Vallone Sercia basin using the SHALSTAB hydrological-geotechnical model, accompanied by an analysis of sensitivity and validity of the model in order to propose it as a cognitive tool to carry out an initial forecasting and risk prevention analysis hydrogeological associated with shallow landslides.

Vote 110/110 cum laude

WORK EXPERIENCE

September 11 - 25, 2021

Short Term Scientific Mission at EPFL, Lausanne

École Polytechinque Fédérale de Lausanne, EPFL, Lausanne

LysGEO application to experimental studies in Lausanne: Optimization of LysGEO model for better understanding the precipitation and irrigation water partitioned into evaporation, vegetation interception, transpiration, soil water, and groundwater storage using EPFL Lysimeter data.

February 2021- July 2021

Tutoring for the Hydrology course 2020-2021

University of Trento, Trento, Italy

Tutoring activity carried out for the Hydrology course for the Undergraduate course in Environmental and Land Engineering, with Prof. Riccardo Rigon.

Februaty 2020 – July 2020

Tutoring for the Hydrology course 2019-2020

University of Trento, Trento, Italy

Tutoring activity carried out for the Hydrology course for the Undergraduate course in Environmental and Land Engineering, with Prof. Riccardo Rigon.

October 2018 – January 2019

Curricular Internship

University of Trento – Trento – Italy

Analysis and study of infiltration and evapotranspiration processes for Java programming implementation of a Lisimeter model.

Teamwork for the creation of the lysimeter model through the union of a Richards infiltration model and the evapotranspiration model based on the theory of Stanislaus J. Schymanski and Dani Or.

Application of the lysimeter model to different type of vegetation and soil in order to value the response of the model.

ADDITIONAL INFORMATION

Conferences

EGU 2020 – European Geosciences Union, 4th – 8th May 2020, Vienna, Austria. Online conference

iEMSs 2020 – International Congress on Environmental Modelling and Software, 15th September 2020, Brussels, Belgium. Online conference
Oral presentation: "*The Hydrology of Plants: Modelling the interaction between Infiltration and Evapotranspiration*"

vEGU 2021 – European Geoscience Union, 19th – 30th April 2021. Online conference
Oral presentation: "*LysimeterGEO for modelling soil-vegetation-atmosphere 1D system in the Critical Zone*"

IDRA2020 online edition, 14th-16th June 2021, RELATORE DI MEMORIA, (n. 138 - sessione 8 del 14/06/2021)

SIAM 2021, Conference on Mathematical & Computational Issues in the Geosciences, 21st – 24th June 2021.
Oral presentation: "*LysimeterGEO for modeling flow and transport in the soil-plant-atmosphere continuum*"

Giornate dell'Idrologia 2021 della Società Idrologica Italiana, 30th September – 1st October 2021. Oral presentation: "*LysGEO 1D for modelling interactions of critical zone,vegetation and atmosphere*"

Honours and awards

Winner of the Rotary Award for the Environment and the Territory, District 2110 Sicily and Malta, 2020 and Publication of the Master's thesis Implementazione di un modello numerico di lisimetro e prime applicazioni in agricoltura e gestione delle foreste".

Winner of the COST Action CA19120 grant: WATER ISOTOPES IN THE CRITICAL ZONE: FROM GROUNDWATER RECHARGE TO PLANT TRANSPIRATION (WATSON), for a Short Term Scientific Mission at the EPFL, Lausanne.

Memberships

Member of the Italian Hydrological Society since 2017
International Representative of the Italian Young Hydrological Society (October 2021-Present)

November 4, 2021