



**PERSONAL INFORMATION**

Name and surname	<b>DOMINIQUE SERRANI</b>
E-mail	<a href="mailto:d.serrani@staff.univpm.it">d.serrani@staff.univpm.it</a> <a href="mailto:dominique.serrani@outlook.it">dominique.serrani@outlook.it</a>
Nationality	<b>Italian</b>

**EDUCATION AND FORMATION**

Date (from – to)	From 1 <sup>st</sup> January 2023 in progress From 1 <sup>st</sup> January 2022 to 31 <sup>st</sup> December 2022 From 1 <sup>st</sup> January 2021 to 31 <sup>st</sup> December 2021
Assignment	<b>Research grant</b> AGR/14 Department of Agricultural, Food and Environmental Sciences (D3A) Polytechnic University of Marche - Università Politecnica delle Marche (UNIVPM)
Topic	“Monitoraggio del suolo in agricoltura biologica e bioconservativa” The project AGRIBIOCONS is financed by Bando “Sostegno alla creazione e al funzionamento di Gruppi Operativi del PEI – Sottomisura 16.1 Azione 2” annualità 2017 – PSR Marche 2014/2020. Members of the partnership are: <ul style="list-style-type: none"> <li>• Società Agricola Biologica Fileni s.r.l., in qualità di capofila del progetto;</li> <li>• Arca s.r.l. Benefit;</li> <li>• Università Politecnica delle Marche (UNIVPM), con le due aree di</li> <li>• Scienza del Suolo (Professor Corti),</li> <li>• Genetica Agraria (Professor Tavoletti);</li> <li>• A.E.A s.r.l.;</li> <li>• Società Agricola Agri Blu di Zingaretti e Soci</li> </ul> Our contribution to the project includes two evaluations: <i>i)</i> the effect of organic and organic-conservative practices on soil properties. The study is carried out in the eight farms included in the project, located in Vallesina (AN-MC). The “Visual Soil Assessment” (VSA), the “Visual Plant Assessment” (VPA) (FAO, 2008) and pedological surveys are the methodologies applied; <i>ii)</i> the direct measurement of soil erosion after rainy events along a cultivated hillside of the “LOV” agricultural farm (Apiro), included in the Esinante river basin (MC-AN).
Date (from – to)	From 1 <sup>st</sup> November 2017 to 20 <sup>th</sup> July 2021
Name and level of the education institution	<b>Ph.D. school in Agricultural, Food and Environmental Sciences</b> Department of Agricultural, Food and Environmental Sciences (D3A) Polytechnic University of Marche - Università Politecnica delle Marche (UNIVPM)
Topic	The Ph.D. project is part of Progetto Strategico di Ateneo 2017 “Discovering “terra preta” in Mozambique: a model for sustainable agroforestry systems to preserve soil, forest and wilderness areas”. The aim of the study was to evaluate the sustainability of the agroforestry practice named <i>slash and burn</i> , historically actuated in Manica province, Mozambique. In detail, soil physicochemical and biological properties were analysed to understand the impact on soil fertility of such practice. The study was carried out in collaboration with the “Sussundenga Research Station Soil” from <i>Instituto de Investigação Agrária de Moçambique</i> (IIAM) and the <i>Universidade Eduardo Mondlane</i> (Maputo), as participants in the program “Applied Research and Multi-sectorial Program” (FIAM) (No. 5.2.1), financed by Agenzia Italiana per la Cooperazione e lo Sviluppo (ICDA). Results are in the process of being published in international impacted journals.
Evaluation	<b>Final evaluation:</b> Excellent <b>Thesis title:</b> “Effect of slash and burn in Mozambique soils”.
Date (from – to)	From November 2015 to February 2017

Name and level of the education institution	<b>Master's degree FORESPA – Forests, soil and landscape (classe LM 73)</b> Department of Agricultural, Food and Environmental Sciences (D3A) Polytechnic University of Marche - Università Politecnica delle Marche (UNIVPM)
Evaluation	<b>Final evaluation:</b> 110/110 e lode <b>Thesis title:</b> "Valutazione dei valori di fondo per elementi in traccia di suoli urbani in città di media grandezza".
Date (from – to)	From February 2014 to August 2014
Name and level of the education institution	<b>ERASMUS LLP (Study and practice)</b> <b>Grado en Ingeniería Forestal y del Medio Natural</b> Universidad de Santiago de Compostela, campus di Lugo (Spagna)
Date (from – to)	From November 2011 to February 2015
Name and level of the education institution	<b>Bachelor's degree – Forestry and environmental sciences (class L 25)</b> Department of Agricultural, Food and Environmental Sciences (D3A) Polytechnic University of Marche - Università Politecnica delle Marche (UNIVPM)
Evaluation	<b>Final evaluation:</b> 109/110 <b>Thesis title:</b> "Confronto diacronico (1992 - 2012) della forma totale e disponibile di metalli e metalloidi in Technosols originatisi da scarti di miniera di lignite. As Pontes, Galizia, Spagna".

## ACADEMIC ACTIVITY

Didactic activity	From February 2023 to May 2023 From February 2022 to May 2022 <b>Adjunct professor of "Conservazione del suolo"</b> In the "Innovative Agricultural System" (SAI) course Department of Agriculture, Food and Environmental Sciences (D3A) Polytechnic University of Marche - Università Politecnica delle Marche (UNIVPM) Via Umbria, 63100, Ascoli Piceno, Italy
	20 <sup>th</sup> October 2022 <b>Visual Soil Assessment</b> Class and field lessons Department of Agronomy, Food, Natural Resources, Animals, and Environments (DAFNE) University of Padua – Università di Padova (UNIPD) Viale dell'Università 16, 35020, Legnaro (Padova), Italy.
Oral presentations	<b>"Stato e pedogenesi di suoli riforestati in ambiente proglaciale, Islanda"</b> Workshop "Soil and water health", 4-6 Luglio 2023, Palazzo Sersanti, Imola. <b>"Valutazione della fertilità del suolo e dell'erosione nelle aree a biologico e biologico conservativo"</b> Final conference of the PSR project AGRIBIOCONS. December 7, 2022, Falconara M.ma, Italy. <b>"Effetto della pratica bio conservativa su suoli coltivati della Vallesina regione Marche, Italia"</b> 43 <sup>rd</sup> National Congress of Italian Society of Soil Science (SISS) "Il suolo nella transizione ecologica" 5-7 ottobre 2022, Palazzo del Collegio Romano. <b>"Vocazionalità del suolo alla coltivazione di Corylus avellana L nelle Marche: Collevocchio, Fiastra (MC)."</b> Workshop GEOLAB "Paesaggi rurali, vocazionalità delle terre, eccellenza delle produzioni agricole". June 21-23, 2022, Imola, Italy. <b>"Valutazione della fertilità del suolo e dell'erosione nelle aree a biologico e biologico conservativo"</b> Open Day of the PSR project AGRIBIOCONS. December 10, 2021, Sant'Apollinare, Monte Roberto, Italy. <b>"Soil omics approach highlights on slash and burn sustainability"</b> 1 <sup>st</sup> International Joint Congress ESSC – EURECYS: "Sustainable Management of Cultural Landscapes in the context of the European Green Deal". November 10-14, 2021, Santo Stefano di Camastra, Italy. <b>"Effect of primitive management (slash and burn) on soil physicochemical properties"</b>

	<p>2<sup>nd</sup> Joint meeting on Soil and Plant System Sciences (SPSS): "The soil-plant-environment nexus and emerging challenges across terrestrial ecosystems". September 20-23, 2021, Torino, Italy.</p> <p><b>"Visual Soil Assessment (VSA) approach to evaluate biological conservative management on cultivated soils"</b></p> <p>Workshop GEOLAB "Soil conservation and environmental protection". September 6-8, 2021, Imola, Italy.</p> <p><b>"Soil properties in slash and burn agricultural system – central Mozambique"</b></p> <p>9<sup>th</sup> International Congress ESSC: "Soil's contribution to people: from food to life-supporting services". September 26-28, 2019, Tirana, Albania.</p> <p><b>"Influence of natural reforestation on soil properties in agroforestry systems of central Mozambique"</b></p> <p>Workshop GEOLAB "Forest &amp; Soil: Biodiversity, Conservation, Resources". June 25-27, 2019, Imola, Italy.</p> <p><b>"L'inquinamento dei suoli urbani di Ancona"</b></p> <p>World soil day, FAO, UNIVPM, SISS, SIPe: "Be the solution to soil pollution". December 5, 2018, Ancona, Italy.</p>
Grants	<ul style="list-style-type: none"> <li>• Winner of the AISSA "Michele Stanca" grant 2022 for the Ph.D. thesis: "Effect of slash and burn in Mozambique soils" in SSD AGR/14, 24-25 February 2022, Bari, Italy.</li> <li>• Winner of the ESSC grant for young researchers to attend the 1<sup>st</sup> International Joint Congress ESSC – EURECYS: "Sustainable Management of Cultural Landscapes in the context of the European Green Deal", 10-14 November 2021, Santo Stefano di Camastra, Italy.</li> </ul>
Summer schools	<ul style="list-style-type: none"> <li>• <b>"La vocazionalità dei suoli e dei paesaggi: strumenti per la lettura del territorio"</b> ALFONSA, UNIBO, SIPe, from 5 to 9 September 2022, Sestola, Italy.</li> <li>• <b>"I boschi demaniali dell'alto Appennino e il sequestro di C nel suolo, approfondimenti statistici e cartografici (GIS e R)"</b> ALFONSA, UNIBO, SIPe, from 30 August to 4 September 2021, Sestola, Italy.</li> <li>• <b>"I suoli dell'Appennino e sequestro di carbonio: casi di studio utilizzando R e GIS"</b> ALFONSA, UNIBO, SIPe, from 31 August to 4 September 2020, online.</li> <li>• <b>"Soil management and quality in the era of sustainable agriculture intensification"</b> SISS, 16-18 June 2020, online.</li> <li>• <b>"Statistica ambientale con R"</b> ALFONSA, UNIBO, SIPe, 1-5 July 2019, Sestola, Italy.</li> </ul>
Publications	<ol style="list-style-type: none"> <li>1) <b>Dominique Serrani</b>, Ilario Ferrocino, Cristiana Garofalo, Andrea Osimani, Maria Rita Corvaglia, Vesna Milanović, Lucia Aquilanti, Stefania Cocco, Valeria Cardelli, Rogério Borguete Alves Rafael, Francesca Clementi, Giuseppe Corti, 2023. "SOIL FUNGI COMMUNITIES UNDER SLASH AND BURN IN MOZAMBIQUE – A METATAXONOMIC APPROACH". Submitted to European Journal of Soil Science.</li> <li>2) Andrea Salvucci, <b>Dominique Serrani*</b>, Alberto Agnelli, Valeria Cardelli, Lorenzo Camponi, Giuseppe Corti, Stefania Cocco, 2023. "IMPACT OF AGRICULTURAL MANAGEMENT ON SALTS ACCUMULATION IN DRYLAND SOILS OF CENTRAL TUNISIA". Italian Journal of Agronomy this link is disabled, 2023, 18(2), 2186. <a href="https://doi.org/10.4081/ija.2023.2186">https://doi.org/10.4081/ija.2023.2186</a></li> <li>3) Andrea Salvucci, Rogério Borguete Alves Rafael, Stefania Cocco, Valeria Cardelli, Lorenzo Camponi, <b>Dominique Serrani*</b>, Domingos Feniassse, David C. Weindorf, Giuseppe Corti, 2023. "ZOOGENIC SOIL HORIZONS – TERMITE ECOSYSTEM ENGINEERS IN DIFFERENT AGRO-ECOLOGICAL REGIONS OF MOZAMBIQUE". Geoderma Regional 32, e00618. <a href="https://doi.org/10.1016/j.geodrs.2023.e00618">https://doi.org/10.1016/j.geodrs.2023.e00618</a></li> <li>4) Lorenzo Camponi, Valeria Cardelli, Stefania Cocco, <b>Dominique Serrani</b>, Andrea Salvucci, Andrea Cutini, Alberto Agnelli, Gianfranco Fabbio, Giada Bertini, Pier Paolo Roggero, David C. Weindorf, Giuseppe Corti, 2023. "HOLM OAK (<i>QUERCUS ILEX</i>L.) COVER: A KEY SOIL-FORMING FORCE IN CONTROLLING C AND NUTRIENT STOCKS IN LONG-TIME COPPICE-MANAGED FORESTS". Journal of Environmental Management, 330, 117181. <a href="https://doi.org/10.1016/j.jenvman.2022.117181">https://doi.org/10.1016/j.jenvman.2022.117181</a></li> <li>5) Andrea Salvucci, Stefania Cocco, Alberto Agnelli, Valeria Cardelli, Lorenzo Camponi, <b>Dominique Serrani*</b>, Giuseppe Corti, 2023. "GENESIS AND PRESERVATION OF</li> </ol>

PATTERNED GROUND IN PERMAFROST NON-AFFECTED SOILS – CENTRAL APENNINES, ITALY”. *Geoderma Regional*, 32, e00604. <https://doi.org/10.1016/j.geodrs.2022.e00604>.

6) **Dominique Serrani**, Stefania Cocco, Valeria Cardelli, Paride D’Ottavio, Alves Rafael Rogerio Borquete, Domingos Feniasso, Alcídio Vilanculos, Chiara Giosué, Francesca Tittarelli, Giuseppe Corti., 2022. “WHAT FUTURE FOR THE SOILS SUBMITTED TO SLASH AND BURN?”. *Journal of Environmental Management*, 322, 116031. <https://doi.org/10.1016/j.jenvman.2022.116031>.

7) **Dominique Serrani**, Ilario Ferrocino, Cristiana Garofalo, Andrea Osimani, Maria Rita Corvaglia, Vesna Milanović, Lucia Aquilanti, Stefania Cocco, Valeria Cardelli, Alves Rafael Rogerio Borquete, Elena Franciosi, Kieran Tuohy, Francesca Clementi, Giuseppe Corti, 2022. “SOIL BACTERIAL COMMUNITIES UNDER SLASH AND BURN IN MOZAMBIQUE AS REVEALED BY A METATAXONOMIC APPROACH”. *Pedosphere*, 2023, 33(3), pp. 508–520. <https://doi.org/10.1016/j.pedsph.2022.06.053>.

8) Lorenzo Camponi, Valeria Cardelli, Stefania Cocco, **Dominique Serrani**, Andrea Salvucci, Andrea Cutini, Alberto Agnelli, Gianfranco Fabbio, Giada Bertini, Pier Paolo Roggero, Giuseppe Corti, 2022. “CONVERSION INTO HIGH FOREST HAS LITTLE EFFECT ON SOIL ORGANIC C AND NUTRIENT STOCK IN A CUSTOMARY TURKEY OAK (*QUERCUS CERRIS* L.) COPPICE”. *Journal of Environmental Management*, 312, 114935. <https://doi.org/10.1016/j.jenvman.2022.114935>.

9) **Dominique Serrani**, Franco Ajmone-Marsan, Giuseppe Corti, Stefania Cocco, Valeria Cardelli, Paola Adamo, 2021. “HEAVY METAL LOAD AND EFFECTS ON BIOCHEMICAL PROPERTIES OF URBAN SOILS OF A MEDIUM-SIZED CITY, ANCONA, ITALY”. *Environmental Geochemistry and Health*, 44, 3425-3449. <https://doi.org/10.1007/s10653-021-01105-8>.

10) Sara Marinari, Rosita Marabottini, Gloria Falsone, Gilmo Vianello, Livia Vittori Antisari, Alberto Agnelli, Luisa Massaccesi, Stefania Cocco, Valeria Cardelli, **Dominique Serrani**, Giuseppe Corti, 2021. “MINERAL WEATHERING AND LESSIVAGE AFFECT MICROBIAL COMMUNITY AND ENZYME ACTIVITY IN MOUNTAIN SOILS”. *Applied Soil Ecology*, 167. <https://doi.org/10.1016/j.apsoil.2021.104024>.

11) Giuseppe Corti, Carlo Urbinati, Stefania Cocco, Cristiano Casucci, Giuseppe Toscano, Adele Finco, Deborah Bentivoglio, Giorgia Bucci, Valeria Cardelli, Arianna De Bernardi, Marziyeh Hoseini, Francesco Malandra, Manuela Mancini, Giorgio Rossini, **Dominique Serrani**, Enrico Tonelli, Alessandro Vitali., 2020. “FORESTS AND SOILS: SUSTAINABLE PRODUCTS AND ECOSYSTEM SERVICES FOR HUMAN WELL-BEING” Springer, Cham. [http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-33832-9\\_39](http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-33832-9_39).

12) Stefania Cocco, Valeria Cardelli, Giuseppe Corti, **Dominique Serrani**, Borquete Alves Rafael, Carmelo Dazzi, Giuseppe Lo Papa, 2020. “ROLE OF LAND SET-UP SYSTEMS ON SOIL (PHYSICO-CHEMICAL) CONDITIONS”. *Italian Journal of Agronomy*, 15(4),1766. <https://doi.org/10.4081/ija.2020.1766>.

\*Corresponding author

## LANGUAGE SKILLS

Mother tongue	<b>Italian</b>	
Other languages	<b>Spanish</b>	<b>English</b>
Reading	Very good	Good
Writing	Very good	Good
Speaking	Very good	Good
Language certification	Certificate of Spanish for foreigners (Level B2)	
Released by	Instituto Cervantes (Spain), 21 August 2015	