

EUROPEAN CURRICULUM VITAE



PERSONAL INFORMATION

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| Name and surname | DOMINIQUE SERRANI |
| E-mail | d.serrani@staff.univpm.it |
| Nationality | Italian |

EDUCATION AND FORMATION

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| Date (from – to) | From 1 January 2021 to 31 December 2021 From 1 January 2022 in progress |
| Assignment | Research grant AGR/14 Department of Agricultural, Food and Environmental Sciences (D3A) Università Politecnica delle Marche |
| 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"> • Società Agricola Biologica Fileni s.r.l., in qualità di capofila del progetto; • Arca s.r.l. Benefit; • Università Politecnica delle Marche (UNIVPM), con le due aree di • Scienza del Suolo (Professor Corti), • Genetica Agraria (Professor Tavoletti); • A.E.A s.r.l.; • Società Agricola Agri Blu di Zingaretti e Soci Our contribute for the project include 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 November 2017 to 20 July 2021 |
| Name and level of education institution | Ph.D school in Agricultural, Food and Environmental Sciences Department of Agricultural, Food and Environmental Sciences (D3A) Università Politecnica delle Marche |
| 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 of such practice on soil fertility. The study was carried out in collaboration with the “Sussundenga Research Station Soil” from <i>Instituto de Investigação Agrária de Moçambique</i> (IIAM), the <i>Universidade Eduardo Mondlane</i> (Maputo), as participant to 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 on international impacted journals. |
| Evaluation | Final evaluation: Excelent Thesis title: “Effect of slash and burn in Mozambique soils”. |

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| Date (from – to) | From November 2015 to February 2017 |
| Name and level of education institution | Master's degree FORESPA – Forests, soil and landscape (classe LM 73) Department of Agricultural, Food and Environmental Sciences (D3A) Università Politecnica delle Marche |
| Evaluation | Final evaluation: 110/110 e lode Thesis title: "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 education institution | ERASMUS LLP (Study and practice) Grado en Ingeniería Forestal y del Medio Natural Universidad de Santiago de Compostela, campus di Lugo (Spagna) |
| Date (from – to) | From November 2011 to February 2015 |
| Name and level of education institution | Bachelor's degree – Forestry and environmental sciences (classe L 25) Department of Agricultural, Food and Environmental Sciences (D3A) Università Politecnica delle Marche |
| Evaluation | Final evaluation: 109/110 Thesis title: "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

Oral presentations

"L'inquinamento dei suoli urbani di Ancona"
World soil day, FAO, UNIVPM, SISS, SIPE: "Be the solution to soil pollution", 5 December 2018, Ancona, Italy.

"Influence of natural reforestation on soil properties in agroforestry systems of central Mozambique"
Workshop GEOLAB and others: "Forest & Soil: Biodiversity, Conservation, Resources", 25-27 June 2019, Imola, Italy.

"Soil properties in slash and burn agricultural system – central Mozambique"
9th International Congress ESSC: "Soil's contribution to people: from food to life supporting services", 26-28 September 2019, Tirana, Albania.

"Visual Soil Assessment (VSA) approach to evaluate biological conservative management on cultivated soils"
Workshop GEOLAB and others: "Soil conservation and environmental protection", 6-8 September 2021, Imola, Italy.

"Effect of primitive management (slash and burn) on soil physicochemical properties"
2nd Joint meeting on soil and plant system sciences – SPSS: "The soil-plant-environment nexus and emerging challenges across terrestrial ecosystems", 20-23 September 2021, online - Torino, Italy.

"Soil omics approach highlights on slash and burn sustainability"
1st 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.

"Valutazione della fertilità del suolo e dell'erosione nelle aree a biologico e biologico conservativo"
Open Day AGRIBIOCONS, 10 December 2021, Località Sant'Apollinare, Monte Roberto, Italy.

Grants

Winner of the ESSC grant for young researcher to attend the 1st 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.

Summer schools

"Statistica ambientale con R"
ALFONSA, UNIBO, SIPE, 1-5 July 2019, Sestola, Italy.
"Soil management and quality in the era of sustainable agriculture intensification"
SISS, 16-18 June 2020, online.

“I suoli dell’Appennino e sequestro di carbonio: casi di studio utilizzando R e GIS”
ALFONSA, UNIBO, SIPE, from 31 August to 4 September 2020, online.

“I boschi demaniali dell’alto Appennino e il sequestro di C nel suolo, approfondimenti statistici e cartografici (GIS e R)”

ALFONSA, UNIBO, SIPE, from 30 August to 4 September 2021, Sestola, Italy.

Publications

- 1) *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 (PHYSICOCHEMICAL) CONDITIONS”, published in Italian Journal of Agronomy; volume 15(4):1766. <https://doi.org/10.4081/ija.2020.1766>.*
- 2) *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. “FORESTS AND SOILS: SUSTAINABLE PRODUCTS AND ECOSYSTEM SERVICES FOR HUMAN WELL-BEING” published in Springer, Cham. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-33832-9_39.*
- 3) *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” published in Applied Soil Ecology; Volume 167. <https://doi.org/10.1016/j.apsoil.2021.104024>.*
- 4) ***Dominique Serrani**, Franco Ajmone-Marsan, Giuseppe Corti, Stefania Cocco, Valeria Cardelli, Paola Adamo “HEAVY METAL LOAD AND EFFECTS ON BIOCHEMICAL PROPERTIES OF URBAN SOILS OF A MEDIUM-SIZED CITY, ANCONA, ITALY”, published in Environmental Geochemistry and Health, 2021. <https://doi.org/10.1007/s10653-021-01105-8>.*
- 5) ***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 “BACTERIAL METATAXONOMIC DIVERSITY ON SOILS UNDER SLASH AND BURN FROM MOZAMBIQUE”. Accept in Pedosphere, awaiting Production Checklist.*
- 6) ***Dominique Serrani**, Ilario Ferrocino, Cristiana Garofalo, Andrea Osimani, Maria Rita Corvaglia, Vesna Milanović, Lucia Aquilanti, Stefania Cocco, Valeria Cardelli, Alves Rafael Rogerio Borquete, Francesca Clementi, Giuseppe Corti “SOIL FUNGI COMMUNITIES UNDER SLASH AND BURN IN MOZAMBIQUE – A METATAXONOMIC APPROACH”. Under review in Pedosphere.*
- 7) *Lorenzo Camponi, Valeria Cardelli, Stefania Cocco, **Dominique Serrani**, Andrea Salvucci, Andrea Cutini, Alberto Agnelli, Gianfranco Fabbio, Giada Bertini, Pier Paolo Roggero, Giuseppe Corti “CONVERSION INTO HIGH FOREST HAS LITTLE EFFECT ON SOIL ORGANIC C AND NUTRIENT STOCK IN A CUSTOMARY TURKEY OAK (QUERCUS CERRIS L.) COPPICE”. Under review in Journal of Environmental Management.*
- 8) ***Dominique Serrani**, Stefania Cocco, Valeria Cardelli, Paride D’Ottavio, Alves Rafael Rogerio Borquete, Domingos Feniasse, Alcídio Vilanculos, Chiara Giosué, Francesca Tittarelli, Giuseppe Corti “WHAT FUTURE FOR THE SOILS SUBMITTED TO SLASH AND BURN?”. Submitted to Journal of Environmental Management.*

LANGUAGE SKILLS

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