

# Curriculum Vitae

## INFORMAZIONI PERSONALI

**Nome** RICCARDO  
**Cognome** SCALENGHE  
**Recapiti** Dipartimento Scienze Agrarie e Forestali  
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## FORMAZIONE TITOLI

Born in Turin in 1965, I currently hold the position of associate professor in pedology at the University of Palermo, where I have been actively engaged since the year 2000. My academic journey began in 1989 when I earned a five-year degree in agricultural sciences from the University of Turin with a commendable score of 107/110. In the same year, I also acquired the qualification to practice as an agronomist. Subsequently, in 1996, I obtained a Ph.D. in soil chemistry. During my earlier years, I contributed to projects related to ecology, such as the Einstein Committee's 'Ecology' projects in Rome (1985) and 'The breath of the city' in Turin (1986). Later, I assumed the role of overseeing the hydrometric center of the Coutenza Canali Cavour (Consorzio Irriguo Est Sesia, Novara, 1989-91) and worked as a designer in environmental recovery at Consulagri, Turin, from 1992 to 1994. My academic career has involved teaching various courses, including Material Chemistry at the University of Turin, Soil Chemistry and Pedology at the University of Genoa, Chemistry at the University of Turin, and Applied Pedology at the University of Turin. Additionally, I have taught courses such as Soil Classification and Cartography, Soil Geography, Pedology, and Land Evaluation at the University of Palermo. Beyond teaching, I played a role in the 'Master in Sustainability' program at Bocconi University, Chieti, L'Aquila, Teramo, and Turin, serving as co-director. I also contributed to Ph.D. courses in Pedology, Hydraulics, and Agricultural, Food, Forestry, and Environmental Sciences at the University of Palermo. Over the years, I have supervised numerous degree theses and Ph.D. theses across various disciplines. My international engagements include research or teaching stints at institutions such as the Macaulay Institute Aberdeen, Swiss Federal Institute for Forest, Snow and Landscape Research, Universidad de Sevilla, CNRS/Université de Poitiers, Universitatea di Cluj Napoca, Université de Lorraine. My primary research focus revolves around the anthropogenic transformations of soils, with specific interests in the spatial variability of soils and the study of nutrients at the pedosphere-hydrosphere interface. I have delved into the cycles of phosphorus, nitrogen, and carbon, as well as conducted research on the distribution of heavy metals and rare earths. Exploring pedogenic aspects in Alpine, temperate, and Mediterranean environments, I have also investigated the soil-water interface, examining both the liquid and solid phases of water. Throughout my career, I have made contributions to niche crops, soil characteristics, and plant responses in specific agronomic contexts. The evolving cultural context of my activities has transitioned from Agricultural Sciences to Forestry Sciences and, more recently, to the broader field of Environmental Sciences, with significant collaborations in archaeological and urban planning domains.

## ATTIVITA' DIDATTICA

Titolare di insegnamenti nell'ambito del dominio 'scienza del suolo' presso UNIPA dall'a.a. 1999/00.

Seminari presso Comune di Torino, Provincia di Pavia, Région Autonome Vallée d'Aoste, Communauté de Communes Haute Maurienne Vanoise, Ordine Agronomi Provincia di Torino, Provveditorato agli Studi di Cuneo, Université Marseille II, Politecnico di Torino trattando aspetti relativi al suolo ed alla pedogenesi in ambienti alpini, nonché agli aspetti progettuali dei recuperi ambientali in aree montane dal 15-11-1989 al 31-12-1991

Incarico di ricerca presso il Macaulay, Aberdeen dal 01-08-1996 al 01-12-1998

Coordinatore e docente del Corso di perfezionamento post-lauream Master in "Conservazione del suolo negli ecosistemi collinari e montani" dell'Università degli Studi di Torino dal 01-11-1996 al 01-09-2000

Co-direttore e docente del "Master in Sostenibilità" del CODEMM (Consorzio interuniversitario Università Bocconi, Università degli studi di Chieti, L'Aquila, Teramo e di Torino) il patrocinio del Ministero dell'Ambiente dal 01-01-1997 al 31-12-1999

Docente della Scuola Italo-Russa di Alta Formazione in Scienze Ecologiche, Naturali e Ambientali, organizzato dell'Istituto Italo-Russo di Formazione e Ricerche Ecologiche dal 01-07-2004 al 31-07-2004

Docente del Master Italo-Argentino "Organizzazione e Gestione Sostenibile della Produzione Zootecnica e Tutela dell'Ambiente" Università degli Studi del Molise e l'Universidad de Concepción del Uruguay in Argentina dal 05-05-2005 al 06-05-2005

Co-direttore dell'International Summer School on "Forest Soils And Global Change", organizzata dall'Università degli Studi di Cordoba, Molise, Palermo, Santiago de Compostela e Torino, finanziamento MIUR dal 01-11-2006 al 31-10-2007

Incarico di insegnamento presso l'Universidad de Sevilla dal 08-01-2007 al 18-01-2007

Incarico di ricerca presso il Eidg. Forschungsanstalt WSL, Birmensdorf dal 01-09-2007 al 01-06-2008

Incarico di insegnamento e di ricerca presso l'Université de Poitiers dal 01-11-2009 al 01-06-2013

Membro della Task Force Italo-Russa sull'armonizzazione della didattica della scienza del suolo in ambito accademico, Università Lomonosov Mosca dal 01-05-2010 al 20-05-2010

Incarico di insegnamento presso la University of Cluj Napoca dal 01-12-2011 al 20-12-2011

Docente del Post Graduate Corse IPRMO on "Mountain Environment and Global Change", Università di Torino/FAO/UNESCO dal 08-07-2017 al 09-07-2017

Incarico di insegnamento presso l'Université de Poitiers dall'01-03-2019 al 01-04-2019

Incarico di ricerca presso l'Université de Lorraine dal 02-05-2019

Docente del Master "Sostenibilità socio ambientale delle Reti agroalimentari (MaSRA)", Cattedra Unesco/Università di Torino dal 01-03-2019 al 04-04-2021

## RICERCHE FINANZIATE

Collaboratore scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2004-ATE-0350] "Effetti indotti nella qualità di un suolo agrario dalla conversione ad agricoltura biologica" dal 01-11-2004 al 31-10-2005  
Responsabile scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2004-ATE-0988] "Significato ambientale della redistribuzione di nutrienti in separati tessiture di suoli diversi" dal 01-11-2004 al 31-10-2005  
Responsabile scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2005-ATE-0834] "Effetto di cicli riduzione ed ossidazione sulla solubilizzazione del fosfato in suoli diversi" dal 01-11-2005 al 31-10-2006  
Collaboratore scientifico della Ricerca Finanziata Fondo già quota 60% [2006-ATE-0884] "Interazione di sostanze inquinanti con il suolo", Università di Palermo dal 01-11-2005 al 31-10-2006  
Collaboratore scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2005-ATE-1064] "I suoli sui depositi alluvionali e la loro potenzialità agronomica" dal 01-11-2005 al 31-10-2006  
Coordinatore del progetto approvato 'DEscribing Soil for Extrapolating Risks and Trends' [NEST-2005-Path-COM] European Commission (non finanziato) dal 01-01-2006 al 31-12-2006  
Responsabile scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2005-ATE-0834] "Effetto di cicli riduzione ed ossidazione sulla solubilizzazione del fosfato in suoli diversi" dal 01-11-2006 al 31-10-2007  
Responsabile scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2007-ATE-0968] "Interrelazioni tra descrittori del suolo prima e dopo un disturbo antropico" dal 01-11-2007 al 31-10-2009  
Collaboratore scientifico della Ricerca MIUR PRIN [2008-NAZ-0256] "Valorizzazione agronomica e indagini fitochimiche nel Piretro (*Chrysanthemum cinerariaefolium* L.)" dal 01-11-2008 al 31-10-2010  
Responsabile scientifico della Ricerca Finanziata dall'Università di Palermo Fondo già quota 60% [2012-ATE-0041] "Aspetti tecnologici correlati all'utilizzazione del suolo per la costruzione di mattoni nel periodo romano" dal 01-11-2011 al 31-10-2013  
Coordinatore del Progetto CORI [R6D13+P8GE2012] "Interazione di minerali argillosi nel suolo", Università di Palermo dal 10-05-2013 al 15-05-2013  
Coordinatore pre-proposal 'A new model of knowledge organization about soils of urban areas for the best management of peri-urban ecosystems' [eCall 6619908]. JPI Urban Europe, ERA-NET Cofund Smart Urban Futures dal 01-03-2016 al 01-09-2016  
Coordinatore UR UNIPA 'Progetto SOILS4MED (SOIL health monitoring and information systems FOR sustainable soil management in the MEDiterranean region)' [CUP J83C22002410006]. PRIMA programme is supported by Horizon 2020 dal 01-05-2023  
Coordinatore UR UNIPA 'Progetto CURIOSOIL (Awakening Soil Curiosity to catalyse Soil Literacy) [101112875]' Horizon Europe HORIZON-MISS-2022-SOIL-01 dal 01-02-2024

## INCARICHI / CONSULENZE

Encyclopedia of Earth [<http://editors.eol.org/eoearth/wiki/RiccardoScalenghe>] dal 01-11-2006  
Editorial board Agriculture, Ecosystems and Environment dal 01-07-2016  
Editorial Board Heliyon dal 18-11-2016  
Associate Editor Heliyon Agriculture dal 18-01-2020  
Section Editor Heliyon Soil Science dal 18-09-2021

## PUBBLICAZIONE

[ScopusAuthorID: 6505902111 ResearcherID: B-4371-2011 OrcidID:0000-0001-7614-4842]

Alcune pubblicazioni recenti

- Tonolli, A., Pisciotta, A., Scalenghe, R., Gristina, L., 2024. From grapes to getaways: Unraveling the residential tourism impact on land use change and soil erosion processes in Menfi district. *Land Use Policy*, 137, 107013. <https://doi.org/10.1016/j.landusepol.2023.107013>.
- Certini, G., Scalenghe, R., 2024. War is undermining soil health and availability more than urbanisation. *Science of the Total Environment*, 908, 168124. <https://doi.org/10.1016/j.scitotenv.2023.168124>.
- Bondì, C., Auteri, N., Saiano, F., Scalenghe, R., D'Acqui, L.P., Bonetti, A., Iovino, M., 2024. Cactus pear pruning residue in agriculture: Unveiling soil-specific responses to enhance water retention. *Environmental Technology and Innovation*, 34, 103602. <https://doi.org/10.1016/j.eti.2024.103602>.
- Auteri, N., Saiano, F., Scalenghe, R., 2022. Recycling Phosphorus from Agricultural Streams: Grey and Green Solutions. *Agronomy*, 12, 2938. <https://doi.org/10.3390/agronomy12122938>.
- Certini, G., Scalenghe, R., 2019. Unnamed soils, lost opportunities. *Environmental Science and Technology*, 53, 8477-8478. <https://doi.org/10.1021/acs.est.9b03050>.

- Saiano, F., Scalenghe, R., 2019. Soil REE patterns as tracers of the emplacement of metal-rich anthropogenic materials. A case study in Moa (Cuba). *Journal of Soils and Sediments*, 19, 2777-2784. <https://doi.org/10.1007/s11368-019-02283-w>.
- Saiano, F., Pantani, O.-L., Scalenghe, R., 2019. A rapid method of screening ceramic artefacts to reject unlikely hypotheses of provenance. *Geoarchaeology*, 34, 759-767. <https://doi.org/10.1002/gea.21749>.
- Gristina, L., Scalenghe, R., García-Díaz, A., Matranga, M.G., Ferraro, V., Guaitoli, F., Novara, A., 2020. Soil organic carbon stocks under recommended management practices in different soils of Sicily (Italy). *Catena*, 193, 104607. <https://doi.org/10.1016/j.catena.2020.104607>.
- Villa, P., Malucelli, F., Scalenghe, R., 2018. Multitemporal mapping of peri-urban carbon stocks and soil sealing from satellite data. *Science of the Total Environment* 612, 590-604. <https://doi.org/10.1016/j.scitotenv.2017.08.250>.
- Martinelli, F., Scalenghe, R., Giovino, A., Marino, P., Aksenov, A.A., Pasamontes, A., Peirano, D.J., Davis, C.E., Dandekar, A., 2016. Proposal of a Citrus translational genomic approach for early and infield detection of Flavescence dorée in Vitis. *Plant Biosystems* 150 (1), 43-53. <https://doi.org/10.1080/11263504.2014.908976>.
- Badalamenti, E., Scalenghe, R., La Mantia, T., Bueno, R.D.S., Sala, G., Pizzurro, G.M., Giaimo, A., Pasta, S., 2020. The cork oak in the mountains of Palermo (Italy): Ecological insights from the south-eastern edge of its distribution range. *IForest* 13 (4), 336-344. <https://doi.org/10.3832/for3360-013>.
- Certini, G., Scalenghe, R., 2021. Soil is the best testifier of the diachronous dawn of the Anthropocene. *Journal of Plant Nutrition and Soil Science* 184 (2), 183-186. <https://doi.org/10.1002/jpln.202000481>.
- Vacca, A., Serra, G., Scalenghe, R., 2018. Vegetation, soils, and humus forms of Sardinian holm oak forests and approximated cross-harmonization of vegetation types, WRB Soil Groups and humus forms in selected Mediterranean ecosystems. *Applied Soil Ecology* 123, 659-663. <https://doi.org/10.1016/j.apsoil.2017.06.024>.
- Cabrini, F., Cavallo, C., Scalenghe, R., 2021. An Early Beginning of Citizen Science: Adolescents Experiencing Urban Energy Usages and Air Pollution. *Adolescents* 1 (3), 225-251. <https://doi.org/10.3390/adolescents1030018>.
- Gallini, L., Ajmone-Marsan, F., Scalenghe, R., 2018. The contamination legacy of a decommissioned iron smelter in the Italian Alps. *Journal of Geochemical Exploration* 186, 121-128. <https://doi.org/10.1016/j.gexplo.2017.12.013>.
- Scalenghe, R., Malucelli, F., Ungaro, F., Perazzone, L., Filippi, N., Edwards, A.C., 2011. Influence of 150 years of land use on anthropogenic and natural carbon stocks in Emilia-Romagna region (Italy). *Environmental Science and Technology* 45 (12), 5112-5117. <https://doi.org/10.1021/es1039437>.
- Saiano, F., Scalenghe, R., 2019. Soil REE patterns as tracers of the emplacement of metal-rich anthropogenic materials. A case study in Moa (Cuba). *Journal of Soils and Sediments* 19 (6), 2777-2784. <https://doi.org/10.1007/s11368-019-02283-w>.
- Certini, G., Scalenghe, R., 2019. Unnamed soils, lost opportunities. *Environmental Science and Technology* 53 (15), 8477-8478. <https://doi.org/10.1021/acs.est.9b03050>.
- Gorra, R., Freppaz, M., Zanini, E., Scalenghe, R., 2014. Mountain dairy wastewater treatment with the use of a 'irregularly shaped' constructed wetland (Aosta Valley, Italy). *Ecological Engineering* 73, 176-183. <https://doi.org/10.1016/j.ecoleng.2014.09.013>.

Born in Turin in 1965, I currently hold the position of associate professor in pedology at the University of Palermo, where I have been actively engaged since the year 2000. My academic journey began in 1989 when I earned a five-year degree in agricultural sciences from the University of Turin with a commendable score of 107/110. In the same year, I also acquired the qualification to practice as an agronomist. Subsequently, in 1996, I obtained a Ph.D. in soil chemistry. During my earlier years, I contributed to projects related to ecology, such as the Einstein Committee's 'Ecology' projects in Rome (1985) and 'The breath of the city' in Turin (1986). Later, I assumed the role of overseeing the hydrometric center of the Coutenza Canali Cavour (Consorzio Irriguo Est Sesia, Novara, 1989-91) and worked as a designer in environmental recovery at Consulagri, Turin, from 1992 to 1994. My academic career has involved teaching various courses, including Material Chemistry at the University of Turin, Soil Chemistry and Pedology at the University of Genoa, Chemistry at the University of Turin, and Applied Pedology at the University of Turin. Additionally, I have taught courses such as Soil Classification and Cartography, Soil Geography, Pedology, and Land Evaluation at the University of Palermo. Beyond teaching, I played a role in the 'Master in Sustainability' program at Bocconi University, Chieti, L'Aquila, Teramo, and Turin, serving as co-director. I also contributed to Ph.D. courses in Pedology, Hydraulics, and Agricultural, Food, Forestry, and Environmental Sciences at the University of Palermo. Over the years, I have supervised numerous degree theses and Ph.D. theses across various disciplines. My international engagements include research or teaching stints at institutions such as the Macaulay Institute Aberdeen, Swiss Federal Institute for Forest, Snow and Landscape Research, Universidad de Sevilla, CNRS/Université de Poitiers, Universitatea di Cluj Napoca, Université de Lorraine. My primary research focus revolves around the anthropogenic transformations of soils, with specific interests in the spatial variability of soils and the study of nutrients at the pedosphere-hydrosphere interface. I have delved into the cycles of phosphorus, nitrogen, and carbon, as well as conducted research on the distribution of heavy metals and rare earths. Exploring pedogenic aspects in Alpine, temperate, and Mediterranean environments, I have also investigated the soil-water interface, examining both the liquid and solid phases of water. Throughout my career, I have made contributions to niche crops, soil characteristics, and plant responses in specific agronomic contexts. The evolving cultural context of my activities has transitioned from Agricultural Sciences to Forestry Sciences and, more recently, to the broader field of Environmental Sciences, with significant collaborations in archaeological and urban planning domains.

#### **ALTRE ATTIVITA**

Top 2% Most Influential Scientist della Stanford University "Updated science-wide author databases of standardized citation indicators", Elsevier Data Repository, V6, doi: 10.17632/btchxktyw.6 dal 01-10-2022