

CURRICULUM VITAE

Teaching, Scientific and Professional Activities

Prof. Roberto Comolli

Education and Professional Training

Graduated in Agricultural Sciences with highest honors (cum laude) on July 13, 1981, from the University of Milan. Thesis title: Ecological Aspects of the Pinewood of Tradate - Appiano Gentile.

From February 1 to July 31, 1983, attended the international post-university course in Aerial Photogrammetry and Photo-interpretation for the management of agricultural and natural resources in tropical and subtropical regions, held at the Istituto Agronomico per l'Oltremare in Florence (Italian Ministry of Foreign Affairs).

In 1985, awarded a three-year scholarship for the drafting of the Soil Map Project of the Lombardy Region.

From September 10 to October 22, 1985, attended the preparatory course for the realization of the Soil Map of the Lombardy Region, organized by the Regional Authority for Agricultural Development of Lombardy.

From September 1985 to September 1988, worked as a research fellow at the Regional Authority for Agricultural Development of Lombardy, for the realization of the regional Soil Map.

From 1987 to 1999, worked as a professional soil scientist, both independently and within associated professional firms.

From 1992 to 1999, carried out teaching and research activities in soil science at the University of Milan and the University of Milano-Bicocca (degree programs in Agricultural and Environmental Sciences).

Since November 1, 1999, employed at the Department of Environmental and Earth Sciences (formerly Department of Environmental and Territorial Sciences), University of Milano-Bicocca, as University Researcher in the disciplinary field AGR/14 – Pedology. Served on the Department Council and Scientific Planning Committee.

Since November 1, 2018, serves as Associate Professor in AGR/14 – Pedology at the Department of Environmental and Earth Sciences, University of Milano-Bicocca.

Scientific Activity

Competitively Funded Research Projects (PI or Unit Coordinator)

- 2006–2008: Scientific coordinator of a research unit within the Italian PRIN 2005 National Research Program: “Advanced Methodologies in Pedology and Pedometrics (MAPPE): Applications to the Sustainability of Agricultural, Forest and Pasture Systems in Italy”. Unit research topic: “Innovative soil mapping techniques and pedological data management for agricultural and environmental uses”. Duration: 24 months. National coordinator: Prof. F. Terribile.
- 2012–2013: Scientific coordinator of a research unit within the project 'Protection and Promotion of Mangrove Rice in Guinea Bissau', including soil investigation of selected areas. Competitively funded by the Municipality of Milan. Project led by NGO L.V.I.A. (Lay Volunteers International Association).
- 2013–2014: Scientific coordinator of the soil research unit within the project 'Biodiversity Protection and Agricultural Development in Jalgaon District (India): A Sustainable and Multilevel Approach', funded by the Municipality of Milan. Project coordinated by CINSA (National Environmental Science Consortium – Venice).
- 2017–2019: Scientific coordinator of the MeNTAL project (Improvements and New Technologies in Lombard Agriculture), focusing on precision agriculture and soil mapping using geophysical surveys. Funded by Regione Lombardia (FEASR – Rural Development Program 2014–2020).
- 2019–2021: Coordinator of the ValSOS project (Valorization of Soil Organic Matter), aimed at conservation and enhancement of SOM and soil biodiversity assessment. Funded by Regione Lombardia (FEASR – Rural Development Program 2014–2020).
- 2020–2022: Scientific coordinator of the Pascol-Ando project (Sustainable Management of Pastures – Activities in Alpe Andossi), focusing on pedological, vegetation and livestock aspects. Funded by Regione Lombardia (FEASR – Rural Development Program 2014–2020).
- 2023: Environmental research group coordinator in the Pascoli-Amo project (Protection of Pastures and Animal Welfare, and Monitoring of the Dairy Supply Chain of Bitto Cheese in Alta Valchiavenna), funded by Regione Lombardia and led by CREA Lodi.
- 2024: Soil research group coordinator in the European EUI-GOCCIA project, for the restoration of the former industrial area 'La Goccia' (Milan Bovisa).

Research Projects by Assignment

- 2003–2005: Coordinator of the soil research unit within the INTERREG IIIA Italy–Switzerland project 'Geological Research for Slope Stability Monitoring in Alpine Areas'; study area: Val Bregaglia (SO); duration: 36 months; scientific coordinator: Prof. G. Sfondrini.
- 2006–2007: Scientific coordinator of the detailed pedological study of the experimental area in Castellaro de' Giorgi (PV), for Consorzio Milano Ricerche. Commissioned by JRC (European Commission, Joint Research Center) within the project 'Technical assistance

for the characterization and up-scaling of terrestrial greenhouse gas fluxes in the frame of JRC Kyoto Experiment'; duration: 24 months.

- 2006–2008: Scientific coordinator of a research unit in the European pilot project BIOSOIL–SOIL 'Soil Surveys in Level I and Level II Sites of the CONECOFOR Network', for the pedo-environmental characterization of forest plots in the Alpine arc; commissioned by CNR–IBAF; duration: 24 months.
- 2008–2010: Scientific coordinator of soil surveys in an experimental area in the Ticino Park, for Consorzio Milano Ricerche. Commissioned by JRC (European Commission, Joint Research Center) within the project 'Technical assistance for characterizing soil carbon and nitrogen stocks of soils at four test sites of the JRC Kyoto Experiment', H02-CC/2008/D30158.
- 2012–2014: Scientific coordinator of the soil research unit for the survey of soil characteristics in selected areas of Lombardy. Commissioned by ERSAF (Regional Agency for Agricultural and Forestry Services – Milan), within the Life+ EMoNFUr project (Establishing a monitoring network to assess lowland forest and urban plantations in Lombardy and urban forest in Slovenia – 10/ENV/IT/000399); duration: 24 months.
- 2014–2016: Scientific coordinator of the survey on soil characteristics and organic matter storage in an experimental site (poplar plantation and cropland) near Casale Monferrato, for CINSA (National Environmental Science Consortium – Venice), within the SUSCACE project (Scientific Support for Agricultural Conversion to Energy Crops) of CREA–PLF.
- 2023–2025: Scientific coordinator of the soil investigation in the former industrial area 'La Goccia' (Milan Bovisa), commissioned by MM S.p.A.

Scientific Societies

- Member of the Italian Society of Soil Science (SISS) since 1992.
- Member of the Italian Society of Pedology (SIPe) since 1998.

International Study and Research Missions

- 1995: People's Republic of China (Sichuan, Yangtze River, Three Gorges area).
- 1996: Mexico (Michoacán: Los Azufres and Lake Cuitzeo).
- 1996: Kazakhstan and Kyrgyzstan (Tien Shan).
- 2000: Chile – Patagonia and Tierra del Fuego.
- 2002: Ecuador – Cuenca region.
- 2004: Peru – Cordillera Blanca.
- 2010: Tanzania – Mount Meru National Park.
- 2012: Ecuador – Cajas National Park.
- 2024: Armenia – Aragats volcano.

Main Scientific Interests

- Soil geography of Alpine regions.
- Spatial variability of soil types and pedological characteristics.

- Digital Soil Mapping (DSM).
- Soil–plant relationships: fertility, physical and chemical properties, water balance, and changes due to the colonization by alien plant species.
- Soil contamination by metals, persistent organic pollutants (POPs), and radioactive elements.
- Soil organic carbon storage.
- Soil respiration.

Publications and Conferences

Published Works

Author or co-author of over 100 scientific, technical, and outreach publications related to soil, environment, and territory. Below is a list of publications indexed in Scopus.

- De Feudis, C., Ferré, C., & Comolli, R. (2025). Practical insights for ECa-based soil mapping: Case studies in croplands and vineyards. *Smart Agricultural Technology*, 10. <https://doi.org/10.1016/j.atech.2024.100697>
- Badino, F., Ruka, R., Pini, R., Frechen, M., Argante, V., Susini, D., et al. (2025). Palaeoenvironmental, stratigraphic and geochronological study of the coastal site of Dalani i Vogël (Vlora, Albania): new evidence for late Neanderthal occupation and prehistoric archaeology. *Quaternary Science Reviews*, 349. <https://doi.org/10.1016/j.quascirev.2024.109111>
- Furlanetto, G., Perego, R., Caccianiga, M. S., Comolli, R., Ferigato, L., Frigerio, G., & Ravazzi, C. (2025). Pastoralism and mining activities affecting timberline ecosystems in the Italian Alps during the last millennia. *Anthropocene*, 51. <https://doi.org/10.1016/j.ancene.2025.100478>
- Rota, N., Canedoli, C., Ferré, C., Comolli, R., Abu El Khair, D., & Padoa-Schioppa, E. (2024). Assessing the carbon stock in the Alps: Considerations on three different approaches. *Journal for Nature Conservation*, 82. <https://doi.org/10.1016/j.jnc.2024.126746>
- Brunetti, M., Magoga, G., Cussigh, A., Alali, S., Pizzi, F., Cremonesi, P., et al. (2024). Soil invertebrate biodiversity and functionality within the intensively farmed areas of the Po Valley. *Applied Soil Ecology*, 197. <https://doi.org/10.1016/j.apsoil.2024.105326>
- D'Amico, M. E., Barbieri, M., Khair, D. A. E., & Comolli, R. (2024). Mangrove rice productivity and pedogenic trends in Guinea Bissau, West Africa. *Journal of Soils and Sediments*, 24(1), 244–258. <https://doi.org/10.1007/s11368-023-03608-6>
- Canedoli, C., Ferré, C., Comolli, R., D'Amico, M. E., Rota, N., Abu El Khair, D., & Padoa-Schioppa, E. (2024). Environmental factors influencing organic carbon stocks across different pools in alpine ecosystems. *Journal of Mountain Science*, 21(12), 4208–4222. <https://doi.org/10.1007/s11629-024-8657-1>
- Agaba, S., Ferré, C., Musetti, M., & Comolli, R. (2024). Mapping Soil Organic Carbon Stock and Uncertainties in an Alpine Valley (Northern Italy) Using Machine Learning Models. *Land*, 13(1). <https://doi.org/10.3390/land13010078>
- Agaba, S., Ferré, C., Musetti, M., & Comolli, R. (2024). Mapping Soil Organic Carbon Stock and Uncertainties in an Alpine Valley (Northern Italy) Using Machine Learning Models. *Land*, 13(1). <https://doi.org/10.3390/land13010078>
- Corti, M., Cavalli, D., Pricca, N., Ferrè, C., Comolli, R., Marino Gallina, P., et al. (2023). Site-specific recommendations of cattle manure nitrogen and urea for silage maize. *Nutrient*

Cycling in Agroecosystems, 127(1), 155–169. <https://doi.org/10.1007/s10705-023-10302-z>

- Ferré, C., Mascetti, G., Gentili, R., Citterio, S., & Comolli, R. (2023). Soil climate regulation services: high SOC stock in Podzols and Umbrisols in an alpine grassland (Valle Adamé, Italy). *Environmental Earth Sciences*, 82(22). <https://doi.org/10.1007/s12665-023-11228-z>
- Baccolo, G., El Khair, D. A., Nastasi, M., Sisti, M., Ferré, C., Alewell, C., & Comolli, R. (2023). ²¹⁰Pbxs. is a viable alternative to ¹³⁷Cs for tracing soil redistribution in mountain pastures affected by heterogeneous Chernobyl fallout. *Earth Surface Processes and Landforms*, 48(4), 708-720.
- Tagliabue, G., Masseroli, A., Ern, S. I. E., Comolli, R., Tambone, F., Cattaneo, C., & Trombino, L. (2023). The Fate of Phosphorus in Experimental Burials: Chemical and Ultramicroscopic Characterization and Environmental Control of Its Persistency. *Geosciences*, 13(2), 24.
- Mascetti, G., Gentili, R., Ferré, C., Fuccella, R., Agaba, S., Pricca, N., ... & Comolli, R. (2023). Sustainable management, critical issues and environmental services of a pastoral system in the Central Alps. *Biodiversity*, 1-6.
- Furlanetto, G., El Khair, D. A., Badino, F., Bertuletti, P., Comolli, R., Maggi, V., ... & Ravazzi, C. (2023). Forest ecology and fire history of the mixed conifer forest belt in the Italian Alps from Late Roman fires to the 20th century under cultural and climate pressure. *Review of Palaeobotany and Palynology*, 312, 104864.
- Gentili, R., Ferré, C., Cardarelli, E., Caronni, S., Montagnani, C., Abu El Khair, D., ... & Comolli, R. (2022). Performing as a transformer species? The invasive alien *Reynoutria bohemica* changes ecosystem properties in a riparian woodland. *Weed Research*, 62(6), 446-456.
- Furlanetto, G., Badino, F., Perego, R., El Khair, D. A., Baioni, M., Comolli, R., ... & Ravazzi, C. (2022). The impact of Early to Middle Bronze Age settlements and farming on vegetation, ecology, nutrient flux and sedimentation at Lake Lucone, northern Italy. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 601, 111131.
- Furlanetto, G., Badino, F., Perego, R., Abu El Khair, D., Baioni, M., Comolli, R., ... & Ravazzi, C. (2022). The Last 5500 Years of Lacustrine Settlement and Farming Impacts on Ecosystems, Nutrients and Sedimentation at Lake Lucone (N-Italy). *Nutrients and Sedimentation at Lake Lucone (N-Italy)*.
- Pini, R., Ravazzi, C., Comolli, R., Perego, R., Castellano, L., Croci, C., ... & Marsetti, D. (2021). Life on a hilltop: vegetation history, plant husbandry and pastoralism at the dawn of Bergamo-Bergomum (northern Italy, 15th to 7th century bc). *Vegetation History and Archaeobotany*, 30, 525-553.
- Brambilla, M., Romano, E., Toscano, P., Cutini, M., Biocca, M., Ferré, C., ... & Bisaglia, C. (2021). From conventional to precision fertilization: a case study on the transition for a small-medium farm. *AgriEngineering*, 3(2), 438-446.
- Ferré, C., Mascetti, G., & Comolli, R. (2021). High-density poplar SRC accumulates more soil organic carbon than very-high-density SRC. *Agronomy*, 11(3), 584.
- Ferré, C., Caccianiga, M., Zanzottera, M., & Comolli, R. (2020). Soil-plant interactions in a pasture of the Italian Alps. *Journal of Plant Interactions*, 15(1), 39-49.
- Canedoli, C., Ferré, C., El Khair, D. A., Padoa-Schioppa, E., & Comolli, R. (2020). Soil organic carbon stock in different urban land uses: high stock evidence in urban parks. *Urban Ecosystems*, 23, 159-171.

- Ferré, C., & Comolli, R. (2020). Effects of *Quercus rubra* L. on soil properties and humus forms in 50-year-old and 80-year-old forest stands of Lombardy plain. *Annals of forest science*, 77(1), 1-19.
- Ravazzi, C., Pini, R., De Amicis, M., Castellano, L., Comolli, R., El Khair, D. A., ... & Perego, R. (2020). Paleoecological archives unraveling the early land-use history at the emergence of the Bronze Age settlement of Bergamo (Italian Alps). *Review of Palaeobotany and Palynology*, 276, 104205.
- Ferré, C., Castrignanò, A., & Comolli, R. (2019). Comparison between spatial and non-spatial regression models for investigating tree–soil relationships in a polycyclic tree plantation of Northern Italy and implications for management. *Agroforestry Systems*, 93, 2181-2196.
- Gentili, R., Ferré, C., Cardarelli, E., Montagnani, C., Bogliani, G., Citterio, S., & Comolli, R. (2019). Comparing negative impacts of *Prunus serotina*, *Quercus rubra* and *Robinia pseudoacacia* on native forest ecosystems. *Forests*, 10(10), 842.
- Furlanetto G., Ravazzi C., Pini R., Vallè F., Brunetti M., Comolli R., Novellino M.D., Garozzo L., Maggi V. (2018) Holocene vegetation history and quantitative climate reconstructions in a high-elevation oceanic district of the Italian Alps. Evidence for a middle to late Holocene precipitation increase. *Quaternary Science Reviews*, 200, 212-236, DOI: 10.1016/j.quascirev.2018.10.001.
- Ferré C., Castrignanò A., Comolli R. (2018) Comparison between spatial and non-spatial regression models for investigating tree–soil relationships in a polycyclic tree plantation of Northern Italy and implications for management. *Agroforestry Systems*, in press, DOI: 10.1007/s10457-018-0334-3.
- Ferré C., Comolli R. (2018) Comparison of soil CO₂ emissions between short-rotation coppice poplar stands and arable lands. *IForest*, 11: 199-205, DOI: 10.3832/ifor2621-010.
- Canedoli C., Crocco F., Comolli R., Padoa-Schioppa E. (2018) Landscape fragmentation and urban sprawl in the urban region of Milan. *Landscape Research*, 1-20, DOI: 10.1080/01426397.2017.1336206.
- Pini R., Ravazzi C., Raiteri L., Guerreschi A., Castellano L., Comolli R. (2017) From pristine forests to high-altitude pastures: an ecological approach to prehistoric human impact on vegetation and landscapes in the western Italian Alps. *Journal of Ecology*, 105 (6) 1580-1597, DOI: 10.1111/1365-2745.12767.
- Bordoni M., Meisina C., Vercesi A., Bischetti G.B., Chiaradia E.A., Vergani C., Chersich S., Valentino R., Bittelli M., Comolli R., Persichillo M.G., Cislighi A. (2016) Quantifying the contribution of grapevine roots to soil mechanical reinforcement in an area susceptible to shallow landslides. *Soil and Tillage Research*, 163, 195-206, DOI: 10.1016/j.still.2016.06.004.
- Andreetta A., Cecchini G., Bonifacio E., Comolli R., Vingiani S., Carnicelli S. (2016) Tree or soil? Factors influencing humus form differentiation in Italian forests. *Geoderma*, 264, 195-204, DOI: 10.1016/j.geoderma.2015.11.002.
- Bordoni M., Persichillo M.G., Meisina C., Chersich S., Vercesi A., Bischetti G.B., Chiaradia E.A., Cislighi A., Vergani C., Valentino R., Bittelli M., Comolli R. (2016) The role of the vineyards on shallow landslides. *Landslides and Engineered Slopes. Experience, Theory and Practice*, 2, 467-474.
- Tremolada P., Guazzoni N., Comolli R., Parolini M., Lazzaro S., Binelli A. (2015) Polychlorinated biphenyls (PCBs) in air and soil from a high-altitude pasture in the Italian Alps: evidence of CB-209 contamination. *Environmental Science and Pollution Research*, 22 (24) 19571-19583, DOI: 10.1007/s11356-015-5115-1.

- Guo M., Li C., Facciotto G., Bergante S., Bhatia R., Comolli R., Ferré C., Murphy R. (2015) Bioethanol from poplar clone Imola: an environmentally viable alternative to fossil fuel?. *Biotechnology for Biofuels*, 8 (1) 1-21, DOI: 10.1186/s13068-015-0318-8.
- Ferré C., Castrignanò A., Comolli R. (2015) Assessment of multi-scale soil-plant interactions in a poplar plantation using geostatistical data fusion techniques: relationships to soil respiration. *Plant and Soil*, 390, 95-109, DOI: 10.1007/s11104-014-2368-2.
- Fumagalli P., Comolli R., Ferré C., Ghiani A., Gentili R., Citterio S. (2014) The rotation of white lupin (*Lupinus albus* L.) with metal-accumulating plant crops: A strategy to increase the benefits of soil phytoremediation. *Journal of Environmental Management*, 145, 35-42, DOI: 10.1016/j.jenvman.2014.06.001.
- Ferré C., Comolli R., Leip A., Seufert G. (2014) Forest conversion to poplar plantation in a Lombardy floodplain (Italy): Effects on soil organic carbon stock. *Biogeosciences*, 11 (22) 6483-6493, DOI: 10.5194/bg-11-6483-2014.
- Colombo C., Palumbo G., Di Iorio E., Sellitto V.M., Comolli R., Stellacci A.M., Castrignanò A. (2014) Soil organic carbon variation in alpine landscape (Northern Italy) as evaluated by diffuse reflectance spectroscopy. *Soil Science Society of America Journal*, 78 (3) 794-804, DOI: 10.2136/sssaj2013.11.0488.
- Guazzoni N., Comolli R., Binelli A., Tremolada P. (2013) Environmental variables affecting the distribution of POPs on Mt. Meru, Tanzania. *Environmental Sciences: Processes and Impacts*, 15 (8) 1573-1581, DOI: 10.1039/c3em00153a.
- Ballabio C., Guazzoni N., Comolli R., Tremolada P. (2013) Highly spatially- and seasonally-resolved predictive contamination maps for persistent organic pollutants: Development and validation. *Science of the Total Environment*, 458-460, 546-554, DOI: 10.1016/j.scitotenv.2013.04.071.
- Parolini M., Guazzoni N., Comolli R., Binelli A., Tremolada P. (2013) Background levels of polybrominated diphenyl ethers (PBDEs) in soils from Mount Meru area, Arusha district (Tanzania). *Science of the Total Environment*, 452-453, 253-261, DOI: 10.1016/j.scitotenv.2013.02.069.
- Ferré C., Zenone T., Comolli R., Seufert G. (2012) Estimating heterotrophic and autotrophic soil respiration in a semi-natural forest of Lombardy, Italy. *Pedobiologia*, 55 (6) 285-294, DOI: 10.1016/j.pedobi.2012.05.001.
- Tremolada P., Guazzoni N., Smilovich L., Moia F., Comolli R. (2012) The effect of the organic matter composition on POP accumulation in soil. *Water, Air, and Soil Pollution*, 223 (7) 4539-4556, DOI: 10.1007/s11270-012-1216-3.
- Ferré C., Zechmeister-Boltenstern S., Comolli R., Andersson M., Seufert G. (2012) Soil microbial community structure in a rice paddy field and its relationships to CH₄ and N₂O fluxes. *Nutrient Cycling in Agroecosystems*, 93 (1) 35-50, DOI: 10.1007/s10705-012-9497-x.
- Tremolada P., Comolli R., Parolini M., Moia F., Binelli A. (2011) One-year cycle of DDT concentrations in high-altitude soils. *Water, Air, and Soil Pollution*, 217, 407-419, DOI: 10.1007/s11270-010-0596-5.
- Guazzoni N., Comolli R., Mariani L., Cola G., Parolini M., Binelli A., Tremolada P. (2011) Meteorological and pedological influence on the PCBs distribution in mountain soils. *Chemosphere*, 83 (2) 186-192, DOI: 10.1016/j.chemosphere.2010.12.043.
- Castrignanò A., Buttafuoco G., Comolli R., Castrignanò A. (2011) Using digital elevation model to improve soil pH prediction in an alpine doline. *Pedosphere*, 21 (2) 259-270, DOI: 10.1016/S1002-0160(11)60126-4.

- Tremolada P., Parolini M., Binelli A., Ballabio C., Comolli R., Provini A. (2009) Preferential retention of POPs on the northern aspect of mountains. *Environmental Pollution*, 157 (12) 3298-3307, DOI: 10.1016/j.envpol.2009.05.041.
- Tremolada P., Parolini M., Binelli A., Ballabio C., Comolli R., Provini A. (2009) Seasonal changes and temperature-dependent accumulation of polycyclic aromatic hydrocarbons in high-altitude soils. *Science of the Total Environment*, 407 (14) 4269-4277, DOI: 10.1016/j.scitotenv.2009.03.031.
- Šefrna L., Previtali F., Comolli R., Cantelli D., Zdravkovič M. (2008) Trace elements in soils in the northern and the central Tian-Shan (Kazakhstan - Kyrgyzstan). *Geografie-Sbornik CGS*, 113 (3) 253-268.
- Tremolada P., Villa S., Bazzarin P., Bizzotto E., Comolli R., Vighi M. (2008) POPs in mountain soils from the Alps and Andes: Suggestions for a 'Precipitation effect' on altitudinal gradients. *Water, Air, and Soil Pollution*, 188 (42826) 93-109, DOI: 10.1007/s11270-007-9527-5.
- Aldighieri B., Bonardi L., Comolli R., Conforto A., Mariant L., Mazzoleni G., Rizzotti T. (2006) Vine-growing in Valchiavenna (SO): The Pianazzola project [La viticoltura in Valchiavenna (SO): Il progetto Pianazzola]. *Bollettino della Societa Geologica Italiana*, Supplemento, 6, 17-27.
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- Comolli R., Previtali F., Šefrna L. (2003) Soil development along two altitudinal transects from north-west to south-east of the Issyk-Kul Lake (Northern and Central Tjan-Šan, Kazakhstan-Kyrgyzstan). *Geografia Fisica e Dinamica Quaternaria*, 26 (2) 111-124.
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Milano, 27.06.2025.

(Roberto Comolli)
