Stefano Spotorno

Environmental Engineer | PhD candidate in Sustainable Development and Climate Change

CURRENT POSITION

Doctoral Student (XXXVIII Cycle)
Istituto Universitario di Studi Superiori (IUSS) Pavia National PhD in Sustainable Development and Climate Change

December 2022 – November 2025

Adjunct Professor
Università degli studi di Genova
Courses: "Life Cycle Assessment and Ecodesign" and "Ecoprogettazione e ripristino ambientale" *September 2024 - ongoing*

Training

Master's Degree in Environmental Engineering
(110/110 *cum laude*)
Università degli studi di Genova, 2020-2022
Thesis: "Carbon Farming as a technique to improve environmental performances in the Agri-food Sector: Corn cultivation in Italy"

Bachelor's degree in Civil and Environmental Engineering(102/110) *Università degli studi di Genova*, 2016-2020
Thesis: "Analysis of the morphodynamic evolution of the Danube delta"

Workshop and training

Workshop "Port Engineering and Maritime Works", Caen High School, France, May-June 2022

PROFESSIONAL EXPERIENCE

Scientific collaborator- TETIS Institute S.r.l.
May 2024 – ongoing
Implementation of environmental studies (LCA, Carbon Footprint, blue carbon biodiversity nexus)

Internship - TETIS Institute S.r.l.
September 2022

Updating and management of databases on LCA modelling software

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SCIENTIFIC AND RESEARCH ACTIVITIES

International Mobility

Visiting PhD Researcher – KU Leuven, Belgio
Department of Earth and Environmental Sciences
January 2023 – July 2023
Research on ecosystems and sustainable management of natural resources

Scientific Publications

- **Spotorno, S.**et al. (2024). "Carbon Farming practices assessment: Modelling spatial changes of Soil Organic Carbon in Flanders, Belgium", *Science of the Total Environment*
- Arellano Vazquez, D. A., Gagliano, E., Del Borghi, A., Tacchino, V., **Spotorno, S**., & Gallo, M. (2024). Carbon farming of main staple crops: A systematic review of carbon sequestration potential. Sustainability, 16(18), 7907.

Review Activity (Peer Review)

- *Journal of Cleaner Production*
- *International Journal of Life Cycle Assessment*
- *Catena*
- *Nutrient Cycling in Agroecosystems*

Conferences and Presentations

- **Poster presentation**: "LCA study on an innovative extraction technique for the recovery of value-added products from olive pomace waste", Paphos (Cyprus), 25-28 June 2025
- **Oral presentation**: “LCA of Olive Pomace Valorisation: Circular Economy Strategies for Agri-food Waste Management”, GITISA Young, Paestum (SA), 3-5 June 2025
- **Oral presentation**: "Valorization of biomass: challenges and opportunities", Bioeconomy Day (BioLig 2025), Genoa, 22 May 2025
- **Oral presentation**: “Modelling spatial changes of Soil Organic Carbon in Flanders, Belgium”, SIDISA, Palermo, 2-4 October 2024

- **Oral presentation**: “Soil Organic Carbon modelling at the service of MRV protocols for the assessment of Carbon Farming practices”, Carbon Farming Summit, Valencia, 5-7 March 2024

International Delegations

- **Accredited NGO delegate**- COP29 (United Nations Climate Change Conference), Azerbaijan, November 2024
- **Accredited NGO delegate**- UNOC3 (Third United Nations Conference on Oceans), Nice, France, June 2025

COMPETENCES

Technical skills

- **Life Cycle Assessment (LCA)**: SimaPro, OpenLCA
- **Standards**: ISO 14040, ISO 14044, ISO 14064, ISO 14067
- **Themes**: Ecodesign, Carbon Footprint, Carbon Farming, Circular Economy
- **Environmental Modelling**: Soil Organic Carbon dynamics, GHG accounting

Language

- **Italian**: Native speaker
- **English**: Excellent (written and read), Good (spoken)

RESEARCH INTERESTS

- Life cycle assessment and ecodesign
- Carbon farming and carbon sequestration in soil
- Sustainable agriculture and agri-food sector
- Circular economy and bioeconomy
- Climate change mitigation and adaptation
- Ocean sustainability and blue carbon