

## Curriculum Vitae Simona Maccherini

### Biosketch

I am a plant ecologist interested in all aspect regarding spatial and temporal variability of plant diversity.

### Work addresses

Department of Life Sciences  
University of Siena  
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### Education

- *University Degree (Laurea) in **Biology*** on 1992 December 14 at the “Faculty of Mathematical, Physical and Natural Sciences” of the University of Siena, with a dissertation in botany.
- *PhD in **Science and Technology Applied to the Environment***, University of Siena. Thesis (Ecology and restoration of seminatural grasslands of Southern Tuscany) defended in 2005.

### Membership in scientific societies

- International Association for Vegetation Science (IAVS)
- Società Botanica Italiana (SBI)
- Accademia dei Fisiocritici
- Eurasian dry grassland group
- Società Italiana scienza della Vegetazione

### Scientometric performances

Scientometric performances according to Scopus (2023 March 09) are:

Number of publications: 68  
Total Number of citations: 1388  
h-index: 22

Scientometric performances according to Web of Science Core Collection (2023 March 09) are:

Number of publications: 60  
Total Number of citations: 1216  
h-index: 21

### National Academic Qualification

- 2017 December 05 - National Academic qualifications as **Full Professor** in Botany (05/A1)

### Working positions

- 2022- **Associate professor**, Department of Life Sciences, **University of Siena**, Italy, Scientific Subject BIO/03 (*Environmental and Applied Botany*).

### Research topics

- Monitoring habitats of Natura 2000 network for conservation purposes.

- Ecology of remnant habitat.
- Assessment of species diversity in protected areas.
- Monitoring restoration of grasslands and rare European beech forests.
- Congruence among vascular plants and other taxa in evaluation of habitat conservation status.
- Methodological issues of plant community monitoring and cross-taxon assessment.

### **Scientific editing and refereeing activity**

- I serve in the editorial review board of Journal of Vegetation Science (2002-ongoing) and in the editorial board of Diversity (2019-ongoing)
- Guest Editor Diversity, Special Issue "Plant Community Ecology: From Theory to Practice".

I served as referee for the following journals:

- Agriculture, Ecosystems and Environment
- Applied Vegetation Science
- Biological Conservation
- Community Ecology
- Ecological Indicators
- Environmental and Experimental Botany
- Hydrobiologia
- iForest - Biogeosciences and Forestry
- Journal of Environmental Management
- Journal of Mountain Science
- Journal of Vegetation Science
- Natural Areas Journal
- Northeastern Naturalist
- Plant and Soil
- Plant Biosystems
- Plant Ecology
- Plant Ecology & Diversity
- PLOS ONE
- Restoration Ecology

### **Main ongoing projects**

- Member of National Biodiversity Future Center, funded by the Italian Ministry of University and Research, PNRR. NODE 3 – Assessing and monitoring terrestrial and freshwater biodiversity and its evolution: from taxonomy to genomics and citizen science. Responsible of the project “Prioritisation of coastal areas for plant diversity conservation in Italy (PriorDune)”
- Monito-Rare and NAT-NET. Monitoring species and habitat of Natura 2000 network. Tuscan regional Administration, Siena, Pisa and Firenze Universities. Member of Siena University Unit.
- H2020 NI (<https://www.nih2020.eu/>) “Natural Intelligence for Robotic Monitoring of Habitats” (H2020-ICT-2020-2). Dal 01/01/2021 ad oggi. Member of Siena University Unit.
- VAV “Vero aglione della Valdichiana” (<https://aglione.ciatoscana.eu/>)(PSGO 45/2017 Psr, Fearsr 2014-2020). 28 months. Responsible WP3 “biodiversità”.

### **Main ended projects**

- EUROPEAN UNION FP6 - RECONDES (Conditions for Restoration and Mitigation of Desertified Areas Using Vegetation). 36 months. Member of the Italian Unit CNR-IRPI.

- “GIFT “Geographical Information on the flora of Tuscany” (POR FSE 2007-2013Ob.2 Asse IV). Scientific Responsible (funding € 300.000).
- LIFE NATURA BIARMICUS LIFE04 NAT/IT/000173. Scientific Responsible for University of Siena (subcontractor) (funding € 15.000).
- LIFE NATURA RESILFOR LIFE08 NAT /IT/000371LIFE. Scientific Responsible for University of Siena (subcontractor) (funding € 20.955).
- PRIN 2012 - Conservation triage and sustainable agriculture indicators using a multitaxa approach at different scales. Project admitted but not financed. Scientific Responsible of Research Unit (University of Siena).
- PRIN 2010-2011 - “Dinamica dei sistemi morfoclimatici in risposta ai cambiamenti globali e rischi geomorfologici indotti. Scientific reference for Department of Environmental Sciences “G. Sarfatti”, University of Siena (Associated partner)

### Teaching Activities

- A.A. 2021/2022 Monitoring biodiversity (6 cfu) for master’s degree in Biodiversity Conservation and Environmental Health; University of Siena.
- A.A. 2021/2022 Diversità vegetale (6 cfu) for Bachelor Course in Scienze Biologiche; University of Siena.
- A.A. 2020/2021 Monitoring biodiversity (6 cfu) for master’s degree in biology curriculum Biodiversity and Environmental Health; University of Siena
- A.A. 2019/2020 Monitoring populations and communities (3 cfu) for master’s degree in biology curriculum Biodiversity and Environmental Health; University of Siena
- A.A. 2018/2019 Monitoring populations and communities (3 cfu) for master’s degree in biology curriculum Biodiversity and Environmental Health; University of Siena
- A.A. 2017/2018 Monitoring for plant ecology (12 h) – Ph.D Course of Environmental and applied botany, University of Cagliari
- A.A. 2017/2018 Monitoring populations and communities (3 cfu) for master’s degree in biology curriculum Biodiversity and Environmental Health; University of Siena
- A.A. 2016/2017 Monitoring populations and communities (3 cfu) for master’s degree in biology curriculum Biodiversity and Environmental Health; University of Siena
- A.A. 2015/2016 Community Ecology (6 cfu) for Bachelor Course in Scienze Ambientali e Naturali; University of Siena
- A.A. 2014/2015 Community Ecology (6 cfu) for Bachelor Course in Scienze Ambientali e Naturali; University of Siena
- A.A. 2012/2013 Vegetation Science (6 cfu) for Master degree in Biodiversità e Conservazione della Natura; University of Siena
- A.A. 2010/2011 Vegetation description and management (6 cfu) for Master degree in Biodiversità e Conservazione della Natura;
- A.A. 2009/2010 Vegetation description and management (6 cfu) for Master degree in Biodiversità e Conservazione della Natura;
- A.A. 2008/2009 Vegetation restoration (3cfu) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale;
- A.A. 2008/2009 Vegetation description and management (6 cfu) for Master degree in Gestione e Conservazione del Patrimonio Naturale.
- A.A. 2007/2008 Vegetation description and management (6 cfu) for Master degree in Gestione e Conservazione del Patrimonio Naturale.
- A.A. 2007/2008 Vegetation restoration (3cfu) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale;
- A.A. 2006/2007 Regional Geobotany (3cfu), Bachelor Course in Scienze Naturali;
- A.A. 2006/2007 Vegetation description and management (6 cfu) for Master degree in Gestione e Conservazione del Patrimonio Naturale.

- A.A. 2006/2007; Vegetation restoration (3cfu) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale.
- A.A. 2005/2006 Regional Geobotany (3cfu) for Master degree in Gestione e Conservazione del Patrimonio Naturale.
- A.A. 2005/2006 Regional Geobotany (3cfu) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale
- A.A. 2005/2006 Vegetation restoration (3cfu) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale.
- A.A. 2004/2005 Regional Geobotany (32 hours) for Master degree in Gestione e Conservazione del Patrimonio Naturale.
- A.A. 2004/2005 Regional Geobotany (32 hours) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale
- A.A. 2004/2005 Vegetation restoration (32 hours) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale.
- A.A. 2003/2004 Vegetation Science (52 hours) for Bachelor Course in Scienze Naturali;
- A.A. 2003/2004 Regional Geobotany (32 hours) for Master degree in Gestione e Conservazione del Patrimonio Naturale.
- A.A. 2003/2004 Regional Geobotany (32 hours) for Master degree in Tecnologie di Monitoraggio e di Recupero Ambientale.
- A.A. 2002/2003 Vegetation Science (52 hours) for Bachelor Course in Scienze Naturali;
- A.A. 2002/2003 Regional Geobotany (32 hours) for Bachelor Course in Scienze Naturali;

## Teaching Management

Coordinator PhD programme in Life Sciences, 15-03.2023-ongoing.

Member of the Teaching Committee of the Second-Level Course in “Biodiversity, Conservation and Environmental Quality” University of Siena, AA 2021-2022 ongoing.

Secretary of the Teaching Committee of the Second-Level Course in “Management and Conservation of the Natural heritage” University of Siena, 2005-2009.

Coordinator of the Erasmus agreements of the University of Siena with Universities of La Laguna (Tenerife, Spain).

## Acknowledgments

- 2017 Beneficiary of Funding of basic research activities (MIUR)
- Founder of Academic Spin-Off Company TERRADATA Environmetrics ([www.terradata.it](http://www.terradata.it))
- Member of the Directive of the Società Botanica Italiana Working group of Ecology.
- Invited speaker at workshop: East meets West- transferring conservation approaches between Eastern and Western European landscapes, Göttingen, 13-15 February 2013.
- The paper Torri D., Santi E., Marignani M., Rossi M., Borselli L., Maccherini S. (2013). The recurring cycles of biancana badlands: Erosion, vegetation and human impact. CATENA, vol. 106, p. 22-30 was a highly cited papers ISI Web of Science (source: ISI InCites Essential Science Indicators from 01-01-2013 al 29-08-2014).
- The paper Gallart F., Marignani M., Perez Gallego N., Santi E., Maccherini S. (2013). Thirty years of studies on badlands, from physical to vegetational approaches. A succinct review. CATENA, vol. 106, p. 4-11 was a highly cited papers ISI Web of Science (source: ISI InCites Essential Science Indicators from dal 01-01-2013 to 28-08-2014).
- I served as project evaluator for Italian Minister for University and Research MIUR and for the Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO)