



**University of Genova**

**Department of Earth, Environmental  
and Life Sciences**

**Doctorate Course in Earth and  
Environmental Science and  
Technology**

Università degli Studi di Genova



Dottorato in Scienze e Tecnologie  
per l'Ambiente e il Territorio

## **Curriculum in biology applied to agriculture and the environment**

### Research theme 1

<p>Titolo: Re-Wild vs Neo-insediamenti in aree montane: implicazioni su biodiversità naturale e antropogenica nelle Alpi occidentali e/o nell'Appennino settentrionale</p> <p>Title: Re-Wild vs Neo-settlement in mountain areas: implications on natural and anthropogenic biodiversity in Western Alps and/or North Apennines.</p>
<p>Tutor (name and email) and eventual co-tutor: Mauro Mariotti <a href="mailto:m.mariotti@unige.it">m.mariotti@unige.it</a></p>
<p>Program description including the formation program abroad</p> <p>The abandonment of land and settlements can be considered an opportunity for the renaturation of ecosystems. To what extent? For millennia, mankind has shaped landscapes through agriculture and, in Europe, the centuries-old interaction between humans and ecosystems has strongly influenced cultural heritage, but many agricultural land and settlements are now abandoned, especially in the montane areas. The program focuses on the consequences that the loss of traditional rural landscapes on the one hand and renaturation on the other have on the diversity and richness of plant species, the plant communities, and the ecosystem services. Therefore, the program will question and assess recent and future dynamics of the biodiversity drivers behind abandonment.</p> <p>The PhD student will enter a team of tens of researchers and doctoral students from the Department of Earth, Environment and Life Sciences collaborating with a lot of Natural Protected Areas and contributing to the CLOE interdisciplinary programme (<a href="https://cloe.dp.unige.it/en/">https://cloe.dp.unige.it/en/</a>).</p>
<p>Financial support: H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449 <a href="https://cloe.dp.unige.it/en/fellowship">https://cloe.dp.unige.it/en/fellowship</a></p>
<p>Tutor's publications (max 3):</p> <p>Lazzaro L, Bolpagni R, Buffa G, Gentili R, Lonati M, Stinca A, Acosta A T R, Adorni M, Aleffi M, Allegrezza M, Angiolini C, Assini S, Bagella S, Bonari G, Bovio M, Bracco F, Brundu G, Caccianiga M, Carnevali L, Di Cecco V, Ceschin S, Ciaschetti G, Cogoni A, Foggi B, Frattaroli AR, Genovesi P, Gigante D, Lucchese F, Mainetti A, Mariotti M, Minissale P, Paura B, Pellizzari M, Perrino, EV, Pirone G, Poggio L, Poldini L, Poponessi S, Prisco I, Prosser F, Puglisi M, Rosati L, Selvaggi A, Sottovia L, Spampinato G, Stanisci A, Venanzoni R, Viciani D, Vidali M, Villani M, Lastrucci L, 2020. Impact of invasive alien plants on native plant communities and Natura 2000 habitats: State of the art, gap analysis and perspectives in Italy. J. Env. Man. (2020) 274: 111140. <a href="https://doi.org/10.1016/j.jenvman.2020.111140">https://doi.org/10.1016/j.jenvman.2020.111140</a>.</p> <p>Dagnino D, Guerrina M, Minuto L, Mariotti MG, Médail F, Casazza G, 2020. Climate change and the future of endemic flora in the South Western Alps: relationships between niche properties and extinction risk. Regional Environmental Change (2020) 20: 121. <a href="https://doi.org/10.1007/s10113-020-01708-">https://doi.org/10.1007/s10113-020-01708-</a></p> <p>Vassallo P, Turcato C, Rigo I, Scopesi C, Costa A, Barcella M, Dapuzeto G, Mariotti M, Paoli C, 2021. Biophysical Accounting of Forests' Value under Different Management Regimes: Conservation vs. Exploitation. Sustainability (2021) 13: 4638. <a href="https://doi.org/10.3390/su13094638">https://doi.org/10.3390/su13094638</a></p>