

MSCA PF 2022 @UniGe

Supervisor Expression of Interest

MSCA domain Environmental and Geosciences (ENV)

1. Laura Gaggero

2. Paolo Giordani

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Supervisor Expression of Interest

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| First Name | Laura |
| Last Name | Gaggero |
| Orcid ID | 0000-0002-7912-6671 |
| Other information | https://rubrica.unige.it/personale/VUZEU19r |
| MSCA domain | Environmental and Geosciences (ENV) |
| Research focus area | Compositional and physical characterisation of art materials / Diagnostics of Cultural Heritage |
| Department | Earth Environment and Life Sciences |
| Short description of the department/laboratory/ research group | <p>The Department of Earth, Environment and Life Sciences hosts inter and multidisciplinary research areas. The Cultural Heritage diagnostics laboratory addresses the characterisation of multimaterial artifacts (stones, ceramics, glasses, plaster, concrete) of antique to modern manufacturing, spanning from Neolithic to modern materials, in particular geomaterials. Crossdisciplinary investigations with art history, chemistry, physical chemistry researchers attain a wide angle, holistic perspective on thematic issues.</p> <p>Ongoing research projects at the laboratory address: i) characterisation of Neolithic stone tools ii) replication of ceramic mini tiles (Vaccari production) for restoration purposes of XIX century mosaics, iii) investigations of middle age silver coins to infer provenance of raw materials.</p> |
| Candidate fellows must send their candidature with a short description of their profile to the following email address | laura.gaggero@unige.it |

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| First Name | Paolo |
| Last Name | Giordani |
| Orcid ID | 0000-0003-0087-7315 |
| Other information | https://rubrica.unige.it/personale/VUZCU11t |
| MSCA domain | Environmental and Geosciences (ENV) |
| Research focus area | Relationships between lichen functional traits, microclimate, and ecosystem functions: tools for studying global change |
| Department | Department of Pharmacy (DIFAR) |
| Short description of the department/laboratory/research group | <p>Our research group is focused on the investigation of the relationships between macroclimate, microclimate and functional traits in lichens. It has been shown that the study of landscape-level heterogeneity of the microclimate will be crucial for understanding how organisms respond to climatic variations and for assessing the impacts of climate change on biodiversity and ecosystems. The general aim of our studies is to provide an organism-centred perspective for studying the interactions between species and environmental factors, allowing more reliable predictions of ecosystem responses to global changes.</p> <p>In particular, we aim to develop quantitative measures of functional traits of lichens that can help estimate their contribution to ecosystem functioning. Among the various contexts of application, particular attention is paid to the effect of lichens on water balance in Mediterranean forest ecosystems. We use multidisciplinary approaches,</p> |



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| | including ecological, ecophysiological, ecohydrological and spectrophotometric techniques to quantify functional traits and ecosystem functions performed by lichens at the microscale and upscaled to the landscape level. |
| Candidate fellows must send their candidature with a short description of their profile to the following email address | giordani@difar.unige.it |