

MSCA PF 2022 @UniGe

Supervisor Expression of Interest

MSCA domain
Life Sciences (LIF)

- 1. Paolo Giordani**
- 2. Marco Testa**
- 3. Luigi Vezzulli**

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Supervisor Expression of Interest

1.

First Name	Paolo
Last Name	Giordani
Orcid ID	0000-0003-0087-7315
Other information	https://rubrica.unige.it/personale/VUZCU11t
MSCA domain	Life Sciences (LIF)
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>



	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

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2.

First Name	Marco
Last Name	Testa
Orcid ID	0000-0001-8643-7200
Other information	https://rubrica.unige.it/personale/VUZBU1xo
MSCA domain	Life Sciences (LIF)
Research focus area	Virtual Reality, Musculoskeletal Pain and related aspects
Department	Department of Neuroscience, Rehabilitation, Ophthalmology, Genetics, Maternal and Child Science (DINOEMI)
Short description of the department/laboratory/research group	The Rehabilitation Engineering Laboratory (REHElab) was born as a spin-off of the Master in Rehabilitation of Musculoskeletal Disorders with the aim of developing precision technologies and cutting-edge methods to be made accessible and usable to rehabilitation professionals. Scientific research is carried out by a multidisciplinary team made up of physiotherapists, psychologists, bioengineers and physicists. These various highly specialized professionals integrate clinical competencies with typical engineering knowledge and methodologies. Using state-of-the-art equipment, REHElab has developed and carries out various lines of research including: Human Activity Recognition (HAR); Development of Exergame in Immersive Virtual Reality; Modulation of contextual factors in the treatment of musculoskeletal disorders; Motion analysis through IMU and force sensors; Study of kinetic parameters and motor control of the strength of the masticatory muscles; Analysis of the motor control of the force in the gripping movements of the hand



**Università
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Candidate fellows must send their candidature with a short description of their profile to the following email address

marco.testa@unige.it

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3.

First Name	Luigi
Last Name	Vezzulli
Orcid ID	0000-0002-4368-1454
Other information	https://rubrica.unige.it/personale/UkNHWIJs
MSCA domain	Life Sciences (LIF)
Research focus area	MARINE MICROBIOLOGY: Study of the Biology, Ecology and Epidemiology of Marine Microbial Pathogens through Molecular ecology, Genomic and Metagenomic approaches including the development and application of bioinformatics pipelines
Department	Department of Earth, Environmental and Life Sciences (DISTAV)
Short description of the department/laboratory/research group	The Microbiology team at DISTAV is experienced in the field of Marine Microbiology and focus its research on the Study of the Biology, Ecology and Epidemiology of Marine pathogenic bacteria. The laboratory is equipped with all basic and advanced equipment in the field of Microbiology and Molecular biology. Further information can be found at https://luigivezzulli.weebly.com/
Candidate fellows must send their candidature with a short description of their profile to the following email address	luigi.vezzulli@unige.it