

# BayCEER Kolloquium

Lectures in Ecology and  
Environmental Research

Summer 2024



UNIVERSITÄT  
BAYREUTH

Donnerstag/Thursday

**25.04.2024**

**12:15 in H6, GEO**

**Prof. Juan Lorite Moreno**

Botanical Department, University of  
Granada, Spain



## **Perspectives and challenges in the restoration and conservation of two isolated habitats: gypsum & cliffs**

This talk provides an overview of the challenges and options for the restoration and conservation of gypsum outcrops and cliffs:

We explored the restoration options to assist in the recovery of gypsumicolous vegetation affected by quarrying, as the main threatened factor of these gypsum habitats. We assessed habitat current conditions, studied local native plant communities and also performed an economic assesment of different restoration options, analysing the effectiveness of the most feasible options comparing both, ecological success and economic costs.

Worldwide, cliffs harbor diverse endemic plants, endangered species, and rock-dwelling birds and bats, often housing 35-66% of the endemic plant species of most countries. The exponential rise in climbing's popularity has led to 'cliff overcrowding'. The reduction of genetic diversity imperils the ability of cliff species to adapt to climate changes and increases extinction risks. To mitigate future losses of species and genetic diversity, we urgently need more data on cliff biodiversity, as well as more research linking climbing pressure and cliff ecosystem health.

Bayreuth Center of Ecology  
and Environmental Research

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