



PARIS
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Lecture Series Environment & Biodiversity

Biological Communities in the Peruvian Andes and Antarctic

Sofia Rodriguez

Universidad Nacional Santiago Antúnez de
Mayolo, Huaraz, Peru

Host: Dr. Daniel Remias



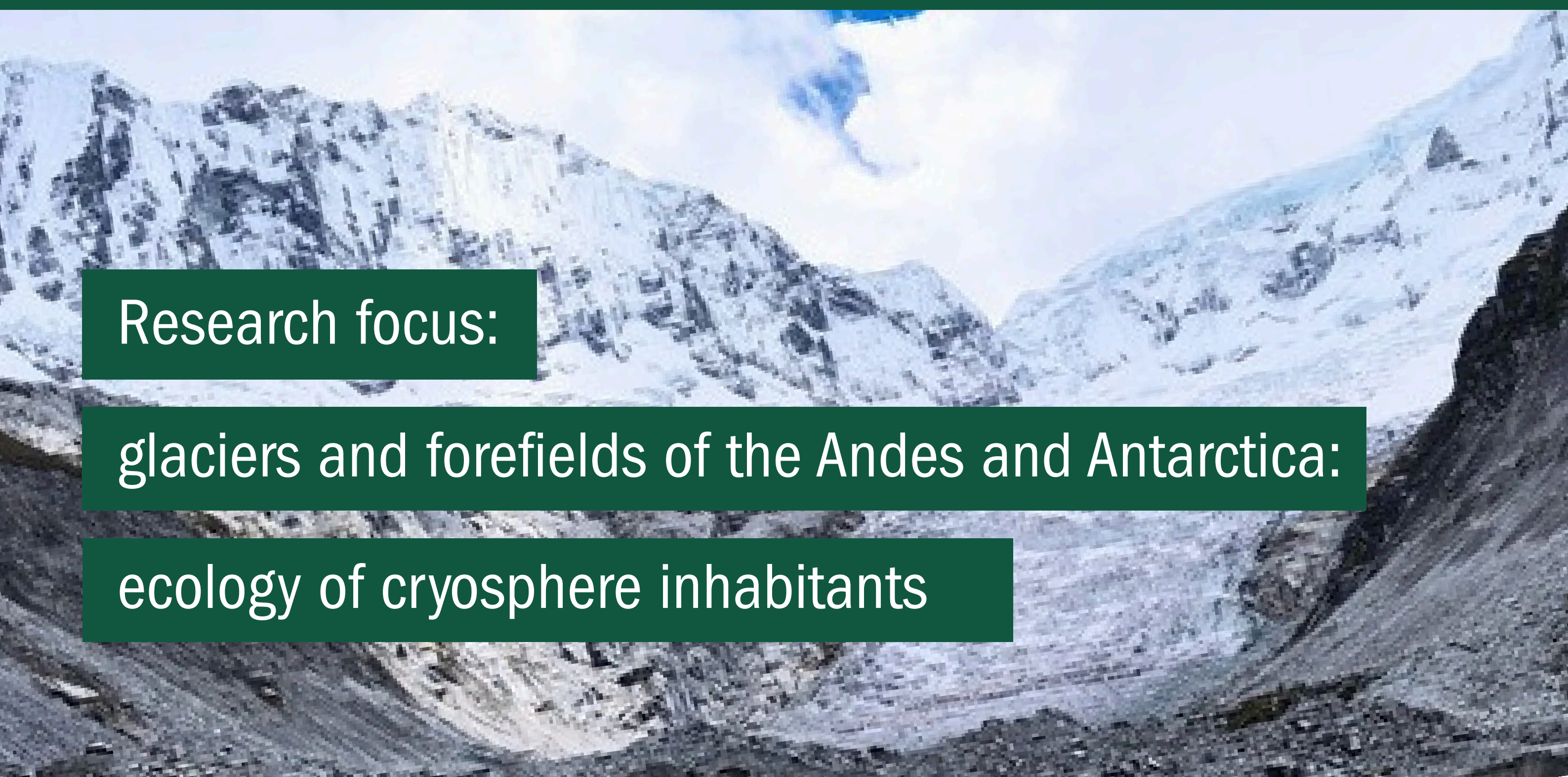
Friday, May 29, 2026, 2:00 P.M.

NLW-Faculty, Room 434, 3rd floor

Research focus:

glaciers and forefields of the Andes and Antarctica:

ecology of cryosphere inhabitants



Abstract

Glacier environments are highly dynamic ecosystems that are significantly sensitive to climate change. In recent decades, a substantial loss of glacier mass has been evidenced in the Andes and Maritime Antarctica, impacting the state of both glacial and marine-lacustrine ecosystems. These changes not only transform the landscape but also generate new terrestrial and aquatic habitats where pioneer biological communities establish themselves. This presentation will be about main findings and scientific concepts of the Research Center for Earth, Environment, and Technology (ESAT-FCAM) of the Universidad Nacional Santiago Antúnez de Mayolo, Peru. I will focus on results from the Peruvian Andes and Antarctica, which is oriented toward characterizing the biotic components in glacial and proglacial environments. This includes the analysis of glacier retreat chronosequences and edaphic development, the colonization of pioneer plants, macroinvertebrates in glacial lakes, bacterial diversity in glaciers and its biotechnological potential, as well as the study of snow and ice algae. Finally, the interdisciplinary and collaborative approach of the research group will be emphasized to contribute to the understanding and conservation of fragile high-mountain ecosystems and polar regions.

