AMBASSADORS
LECTURE SERIES

אוניברסיטת חיפה
UNIVERSITY OF HAIFA
جامعة حيفا

MEET OUR AMBASSADORS

Nicolas Waldmann, PhD
Associate Professor
Department of Marine Geosciences
Charney School of Marine Sciences

Field of Research:
Geology, Paleoclimate, Lake and Marine Studies

SHORT BIO

I am a geologist and sedimentologist with experience in marine and lacustrine expeditions. I received my MSc in geochemistry from the Hebrew University in Jerusalem and my PhD in sedimentology from the University of Geneva. Following a postdoc position at the University of Bergen, where I studied gas hydrates in the North Atlantic, I founded the Interdisciplinary Laboratory for Paleoclimate and Petrophysics (PetroLab) at the University of Haifa. In 2013, I was honored with the Krill Prize for Excellence in Scientific Research from the Wolf Foundation. I also serve as a member and board member of several international organizations.

My scientific initiatives focus on elucidating the interplay between climate dynamics and the hydrological system, and their ramifications on the environment. My research subjects include past climate change, monsoon dynamic reconstruction in the tropics, and the interplay between westerlies and high-latitude climate variability.

In my free time, I love to travel and explore different parts of the world with my son and daughter, run on nature trails, and kitesurf. I speak six languages (Spanish, French, Hebrew, English, Italian, and Norwegian). One day, I hope to become a musician.

FUNDRAISING NEEDS

The Interdisciplinary Laboratory for Paleoclimate and Petrophysics was established as a cutting-edge hub at the Department of Marine Geosciences in 2011. Research at the PetroLab includes both field and laboratory studies of modern and ancient marine and lacustrine depositional systems. Our research aims to understand the geological processes shaping basins, aiming to disentangle the impact of tectonics and climate in sedimentation. The lab is furnished with state-of-the-art analytical equipment for unlocking the physical, chemical, and biological parameters imprinted in the sedimentary record. Our novel approach for multi-source data is carried out by implementing and amalgamating techniques in an interdisciplinary fashion that allows to provide accurate reconstructions of past climate conditions and how these impacted the environment and ecological system. **This is of utmost importance for understanding the mechanisms behind current trends in global warming and climate change predictions.**

© 2024 Division of the Presidency and External Relations