



MEET OUR AMBASSADORS



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SHORT BIO

I completed my post-doctoral research at the DLR (German Space Agency, Munich) and was a researcher at the Signal and Image Processing Center, Royal Military Academy of Belgium in Brussels.

My research is fundamentally multidisciplinary and deals with an understanding of natural processes and human impacts on the biophysical environment. I am developing hybrid approaches, coupling physical processes with the versatility of data-driven machine learning to better understand the ecosystems, biodiversity, environmental responses to stressors, and emphasizing decision support system aligned with the UN Sustainable Development Goals (SDGs).

I advanced both theoretical/fundamental and practical aspects for applying image and signal processing in various environmental studies. The developed methodologies provide the interdisciplinary scientific community with tools to consider fully-integrated multi-source data on a selected environmental application.

FUNDRAISING NEEDS

The SRSLab was established in 2017 at the department of Geography and Environmental Studies. Our ultimate goal is to bridge the gap between machine learning and geoscience for sustainability and environmental management at the national and international levels. We promote a holistic approach that involves technological and computational means for analyzing the dynamical processes, developing metrics, and examining the weights of policy measures to improve sustainability. The research focuses on technological, environmental and social change, embracing the complexity of the human-environment relationship, and physical model development for complex and non-trivial real-world problems in the era of climate change. Our novel, beyond the state-of-the-art, methodologies for multi-source data fusion enlarges the application envelope of each individual technology and contributes valuable information for environmental applications.