



Data scientist and PyTorch developer in the PI@ntNet team at INRIA Sophia-Antipolis' Montpellier branch, in the LIRMM laboratory.

Email: theo.larcher@inria.fr

Site web personnel: [Théo Larcher \(Google scholar\)](#)

05 March 2024
14h00 – 15h00

Salle 201, Bâtiment PS2, CIRAD-UMR AMAP,
Boulevard de la Lironde

Malpolon

presented by

Théo Larcher

INRIA, Montpellier, France

ABSTRACT

Recent advances in deep learning for ecology suggest that deep neural networks will offer significant advancements in modelling species distributions thanks to the increasing number of observations and high quality data: satellite, bioclimatic, timeseries... These days, the PyTorch framework is becoming increasingly popular to build such deep learning pipelines thanks to its completeness and huge contributing community.

However, ecologists do not necessarily have a strong background in either PyTorch, Python or even deep learning in itself which can be barrier to putting efforts in developping such methods.

In the context of the [MAMBO european project](#), we are currently developping a Python framework, MALPOLON, to facilitate the use of neural networks to learn Deep-SDM (Species Distribution Models), even with minimal knowledge of the language.

We believe this tool could be useful for a number of researchers and we are looking for feedback and identifying more user needs.

KEY WORDS

Deep learning; framework; Deep-SDM; neural networks; PyTorch

Invited and animated by:

Antoine AFFOUARD

Type:

Technical workshop

Oral language:

Français (English if necessary)

Language of PPT:

Français/Anglais

