

NWP-SEminar

Date: 6 March 2024

Time: 15h00-16h00 CET

Place: **Online** (Colleagues present at MeteoSwiss, Zurich Airport, OPC 1, can attend in Room 5-331)

Link: see Microsoft Teams link at the bottom of this text

Laure Raynaud and Clément Brochet: Machine Learning at Météo-France : Broad perspectives and a focus on ensemble generation at kilometer scale

Abstract: Following the general trend towards combining ML and weather/climate forecasting, Météo-France has recently started a number of research projects on this topic. Whether exploratory or close to an operational use, these works illustrate the potential of ML for some of our activities, and open up new questions and challenges regarding the status of ML in the next evolutions of forecasting systems. The first part of the presentation will give an overview of ongoing research. We will also discuss our roadmap for the development of full data-driven modelling.

The second part of the presentation will be devoted to our last achievements regarding ensemble forecasting with generative models (GANs mostly, and a flavour of Diffusion models), covering choice of architectures, ensemble sampling strategies and evaluation.

External guests: This is a seminar held online, please connect through the link below.

We are looking forward to seeing many of you!
Numerical Prediction division of MeteoSwiss

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