



As the world's fastest-growing technology, Artificial Intelligence (AI) is rapidly shaping industries such as Energy and Meteorology. To help address stakeholders' concerns about the impacts of increasingly incorporating AI and Machine Learning into weather and power prediction models, the International Energy Agency's (IEA) Wind Task 51 "Forecasting for the Weather Driven Energy System" invites you to a webinar in Deep Learning for Weather-Based Power Prediction. In this Webinar we will bring together the Energy Meteorology and Machine Learning / Deep Learning (ML/DL) communities to showcase the latest advancements in ML/DL for weather prediction. This event also provides an opportunity to discuss future directions for the integration of these new generation models in the Energy systems.

Workshop organized by IEA Wind Task 51 "Forecasting for the Weather Driven Energy System".

Organisers: Sukanta Basu, U Albany, Joana Mendes, UK MetOffice, and Gregor Giebel, DTU Wind, Operating Agent of Task 51

Image by Joana Mendes, using open.ai.

# AGENDA

All times are Central European Time (UTC+1, Copenhagen).  
15:30 Copenhagen is 06:30 Seattle, or 22:30 Beijing.

Zoom link: <https://dtudk.zoom.us/j/4540565095?pwd=Q1BJSXR0ZkM3SlhRSTZKdStDdTlpQT09>

Thursday, January 11, 2024	
15:30 – 16:25	<b>Welcome and Keynote by Mariana Clare, ECMWF</b> <ul style="list-style-type: none"><li>- Welcome by webinar organizers Sukanta Basu and Joana Mendes (5 min)</li><li>- Keynote presentation “The rise of data-driven weather forecasting” (40 min)</li><li>- Q&amp;A (10 min)</li></ul>
16:25 – 16:30	<b>Comfort break</b>
16:30 – 17:05	<b>Greg Hakim, University of Washington, Seattle</b> <ul style="list-style-type: none"><li>- Dynamical Tests of a Deep-Learning Weather Prediction Model (25 min)</li><li>- Q&amp;A (10 min)</li></ul>
17:05 – 17:40	<b>Joel Oskarsson, Linköping University</b> <ul style="list-style-type: none"><li>- Neural Weather Prediction for Limited Area Modeling (25 min)</li><li>- Q&amp;A (10 min)</li></ul>
17:40 – 18:15	<b>Florian Achermann, ETH and JUA.ai</b> <ul style="list-style-type: none"><li>- A Research Collaboration between ETH Zurich and Jua: Ultra High Resolution Wind Forecasts (25 min)</li><li>- Q&amp;A (10 min)</li></ul>
18:15 – 18:30	<b>Open discussion and close</b> <ul style="list-style-type: none"><li>- Facilitated discussion around the topics presented (13 min)</li><li>- Concluding remarks and close (2 min)</li></ul>