A Norwegian Hydrological Council Meeting:
Machine Learning in Hydrology, Meteorology and related fields

When: 25. April 2025
Where: Statkraft, Lilleakerveien 6, Oslo.
Entry is free upon registration (send email to: **nhr@nve.no**)

Programme

08:15 – 09:00	Registration and opening (use main entrance in building 1)
09:00 – 09:45	Martin Gauch (Google Research) *Deep Learning for Streamflow Forecasting: Tricks of the Trade*
09:45 – 10:10	Karsten Muller (Norwegian Water Resources and Energy Directorate) *ML in Avalanche Warning*
10:10 – 10:30	Elhadi Mohsen Hassan Abdalla (SINTEF) *Applications of ML in Urban Hydrology and Stormwater Management*
10:30 – 11:00	Break and Poster Session from students
11:00 – 11:40	Ivar Ambjørn Seierstad (Norwegian Meteorological Institute) *Towards data driven regional weather forecasting*
11:40 – 12:00	Lasse T. Keetz (Dep. Of Geosciences, University of Oslo) *ML in ecosystems modelling – land cover classification and land surface model parameter estimation*
12:00 – 12:45	Lunch and Poster Session from students
12:45 – 13:30	John Aiken (Dep. Of Physics, University of Oslo/Expert Analytics) *Understanding subsurface processes in a carbon sequestration environment*
13:30 – 13:50	John Bjørnar Bremnes (Norwegian Meteorological Institute) *Fine-tuning probabilistic precipitation forecasts using censored Bernstein Quantile Networks.*
13:50 – 14:15	Kristoffer Aalstad (Dep. Of Geosciences, University of Oslo) *Learning to assimilate and assimilating to learn*
14:15 – 14:30	Break
14:30 – 15:10	Kamilla Wergeland/ Silius M. Vandeskog (NORCE/NR) *Predicting streamflow and hydropower production with Long Short-Term Memory models*
15:10 – 15:30	Kristen Joy Valseth (Dep. Mathematics, University of Oslo) *The CAMELS-Nordic dataset for hydrological ML studies*
15:30 – 15:35	End

Questions concerning practicalities: **asgeir.petersen-overleir@statkraft.com**