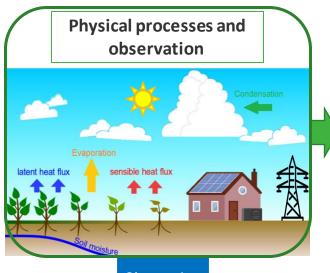


Physics-informed deep learning for load forecast



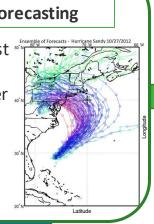


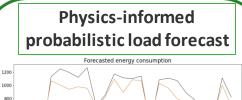
Physics-based numerical weather forecasting

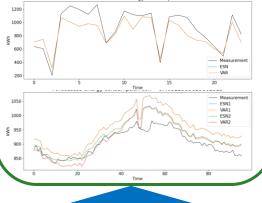
Ensemble forecast

- Multi-physics
- Multi-parameter
- Initial condition

HRRR, RAP WCWMF. NAM,GFS







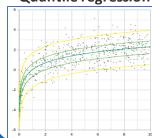
Observation

Weather forecast

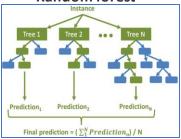
Ensemble forecast

Machine learning models

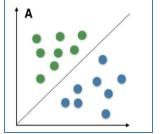
Quantile regression



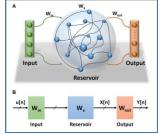
Random forest



Support vector machine



Echo state network



Long short-term memory

