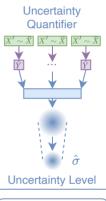
## SOSAA RSM using the Icarus Architecture

Out-of-Distribution
Detector

Input:  $\bar{X} := (X, X - X_{\text{train}})$ 

Prediction Model

...  $\hat{Y}_1$  ...  $\hat{Y}_M$ 



Pairwise Difference Regression

Point-Prediction

Trained with

 $(\bar{X}_{\text{train}}, Y_{\text{train}})$ 

Calibrated with  $Y_{
m valid} - \hat{Y}_{
m valid}$ 

Output:  $(Ypprox \hat{Y}\pm\hat{\sigma})\mid c$ 

prediction with uncertainty level, conditioned by confidence score