

Model learning

Machine learning

Fit regression function $Y_r = f(X_r)$

Ridge, Random Forests, Gaussian Processes

Cross-validation

Prediction on test set at the same location r

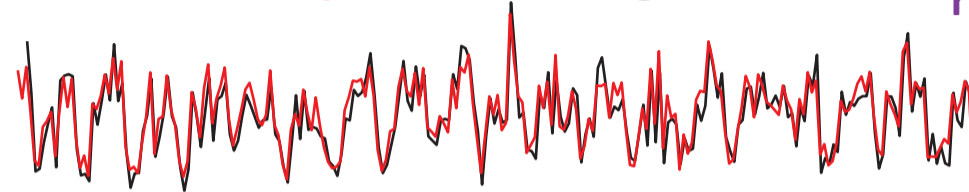
Predictand (Y_r)

PM₁₀ or NO₂ levels
from co-located
reference stations

Predictors (X_r)

PM/NO₂ low-cost sensor signals
Temperature, relative humidity

Calibrated predictions given new X_r



Predictions at new location r' given $X_{r'}$

