Ridge regression with bootstrapping for  $\lambda$  =7.85e-03

Bias-variance trade-off for training data Bias-variance trade-off for test data **MSE** MSE 0.04 Bias Bias 0.030 Variance Variance 0.025 0.03 0.020 0.02 0.015 0.010 0.01 0.005 0.000 0.00 2.5 5.0 2.5 5.0 7.5 7.5 10.0 12.5 10.0 12.5 Polynomial Degree Polynomial Degree