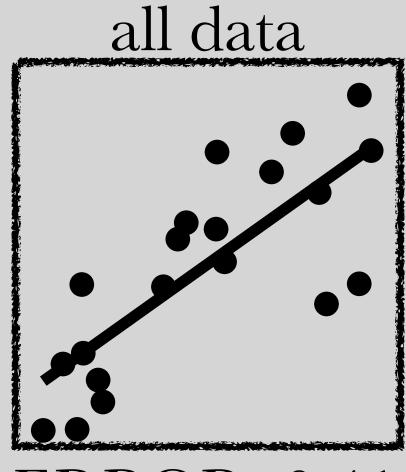
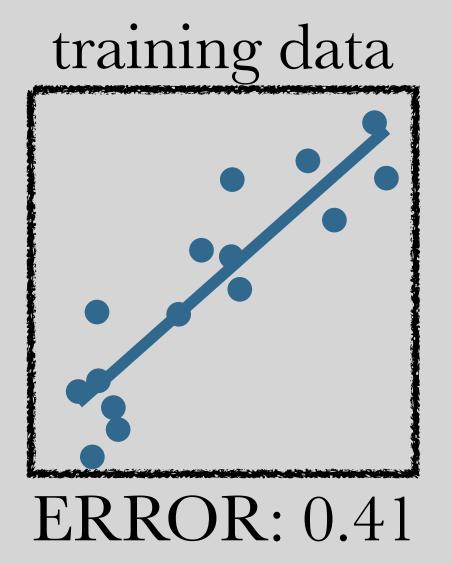
secret sauce of data science Donoho, 2015



Out-of-Sample Prediction



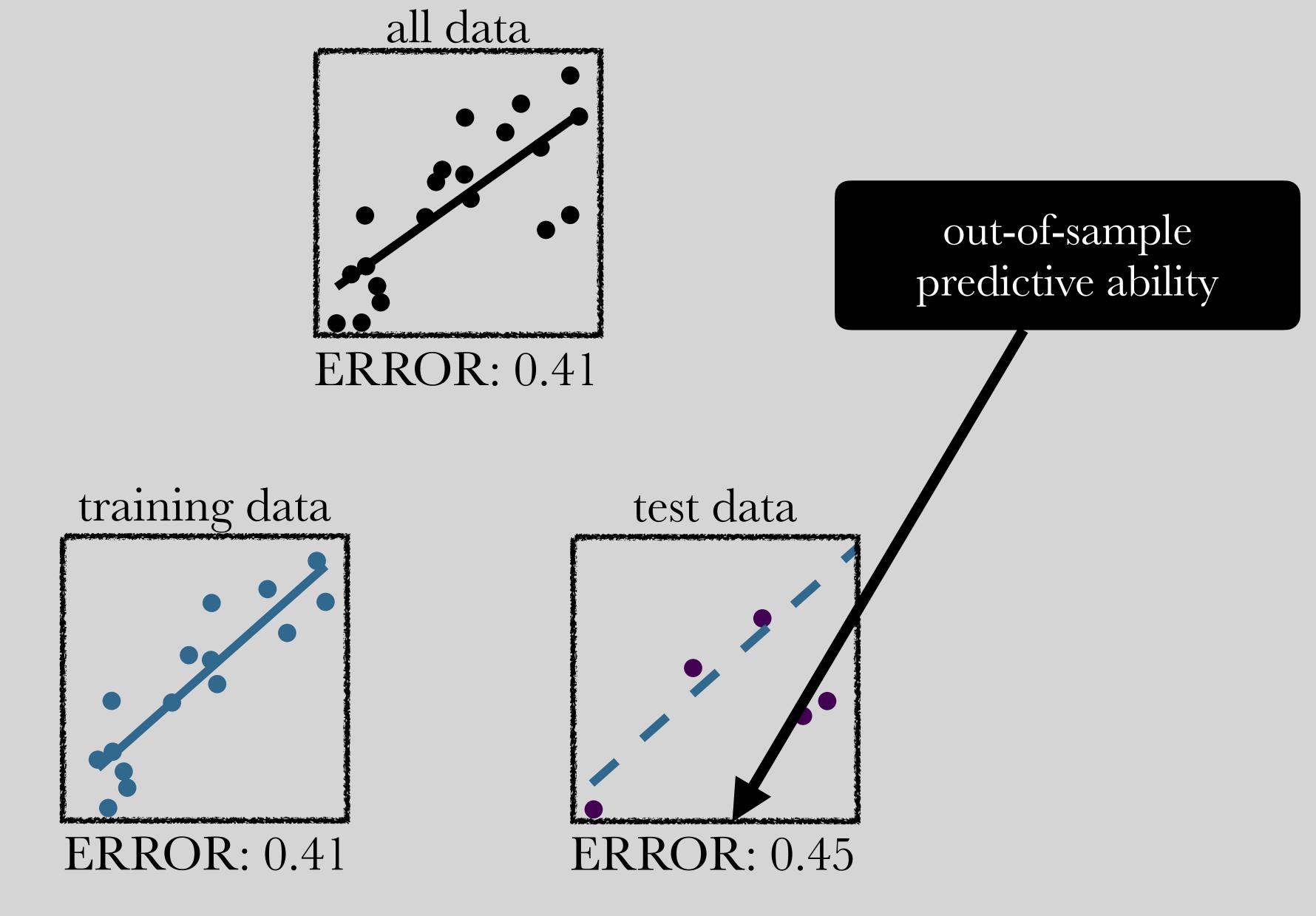
ERROR: 0.41



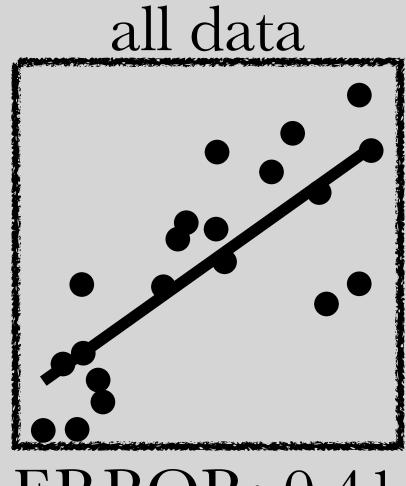
test data

ERROR: 0.45

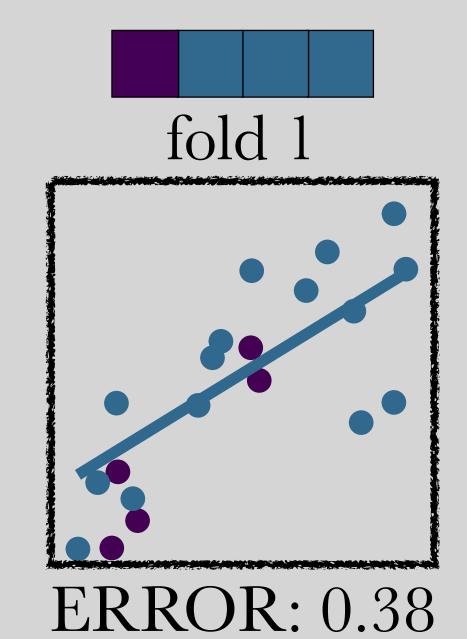
Out-of-Sample Prediction



Cross-Validation

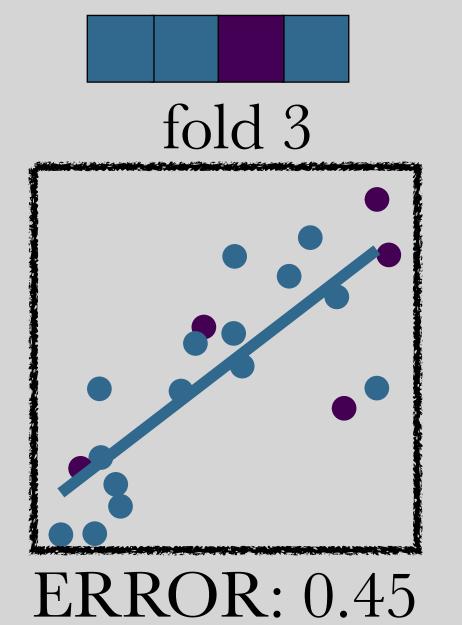


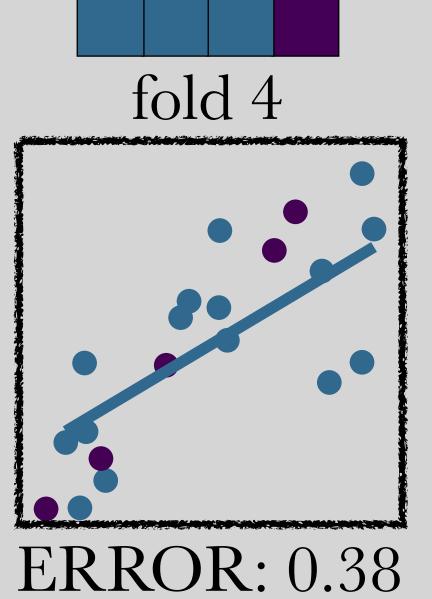
ERROR: 0.41



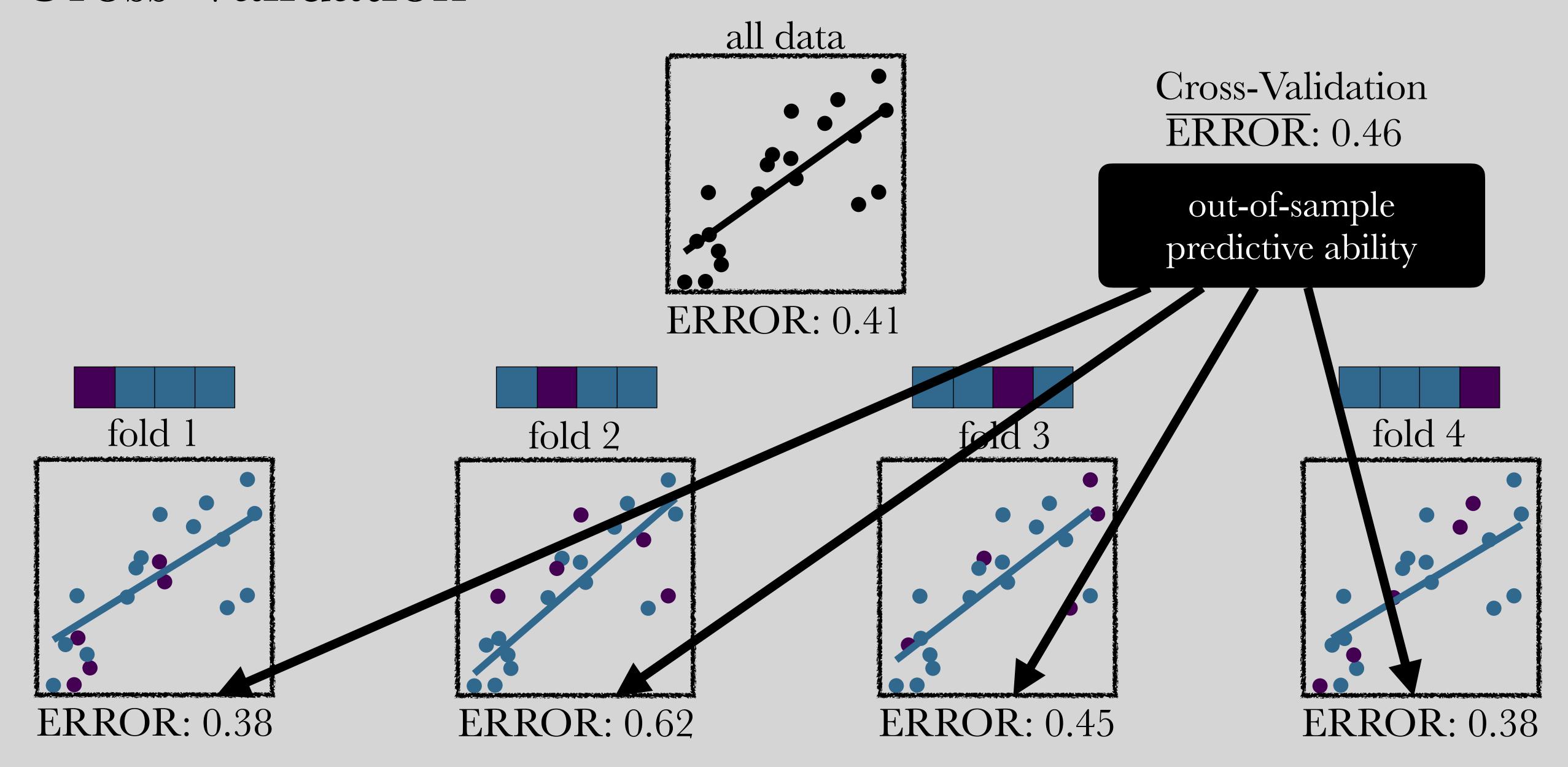
fold 2

ERROR: 0.62





Cross-Validation

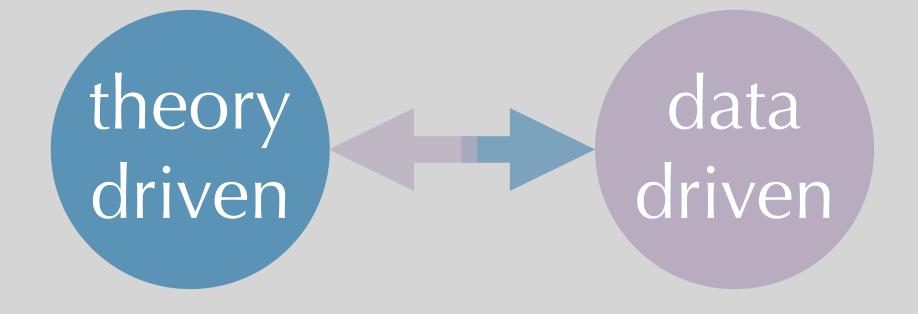


a shift towards **prediction** leads to a more reliable and useful social science

out-of-sample predictive ability:



clear measure of effect size



facilitates dialogue theory- and datadriven models



measure of distance theory and practice