With original data:

est\_gp = SymbolicRegressor(population\_size=1000,

generations=50, stopping\_criteria=0.25,

p\_crossover=0.8, p\_subtree\_mutation=0.05, function\_set=function\_set,

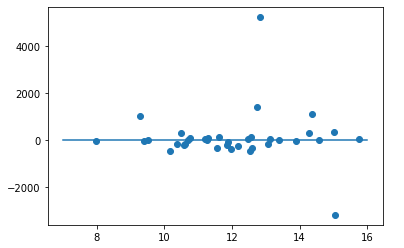
p\_hoist\_mutation=0.10,

p\_point\_mutation=0.05,

max\_samples=0.75, verbose=1,

parsimony\_coefficient=.5, random\_state=0)

0.647



With trimmed data plus PC = .5:

est\_gp = SymbolicRegressor(population\_size=1000,

generations=50, stopping\_criteria=0.25,

p\_crossover=0.8, p\_subtree\_mutation=0.05, function\_set=function\_set,

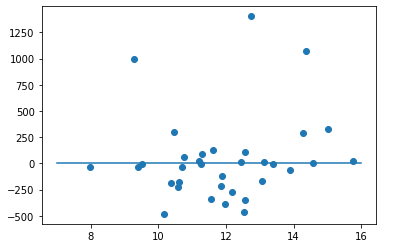
p\_hoist\_mutation=0.10,

p\_point\_mutation=0.05,

max\_samples=0.75, verbose=1,

parsimony\_coefficient=.5, random\_state=0)

0.395



With default parameters:

est\_gp = SymbolicRegressor(population\_size=1000,

generations=50, stopping\_criteria=0.25,

p\_crossover=0.9, p\_subtree\_mutation=0.01, function\_set=function\_set,

p\_hoist\_mutation=0.01,

p\_point\_mutation=0.01,

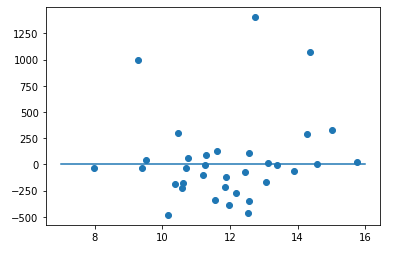
max\_samples=0.90, verbose=1,

parsimony\_coefficient=.001, random\_state=0)

div(0.806, 0.883)

= 0.912797281993205

R2: -0.006164543491346208



est\_gp = SymbolicRegressor(population\_size=1000,

generations=50, stopping\_criteria=150,

p\_crossover=0.8, p\_subtree\_mutation=0.05, function\_set=function\_set,

p\_hoist\_mutation=0.1,

p\_point\_mutation=0.01,

max\_samples=0.90, verbose=1,

parsimony\_coefficient=.001, random\_state=0)

sub(mul(div(mul(neg(0.762), sub(X0, 0.463)), -0.199), inv(sub(X0, 0.842))), X0)

= (-X0\*(X0 - 0.842) + 3.82914572864322\*X0 - 1.77289447236181)/(X0 - 0.842)

R2: -0.011402445225793256

