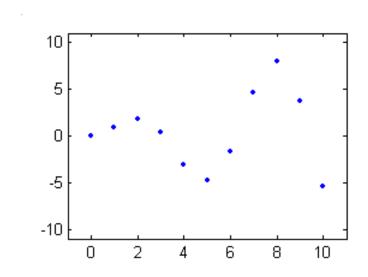
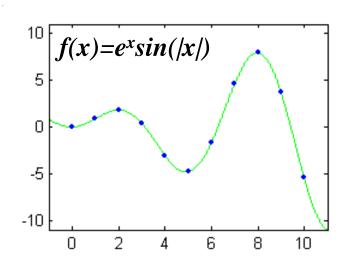
Assignment #2 Genetic Programming

MECS 4510 Evolutionary Computation Hod Lipson

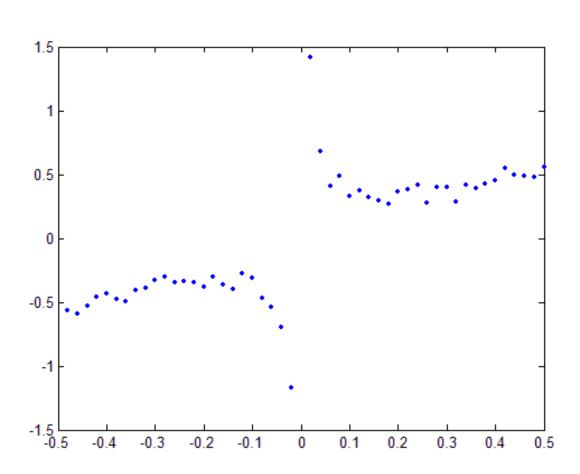
Symbolic Regression

What function describes this data?





Data



Week 1: Random function

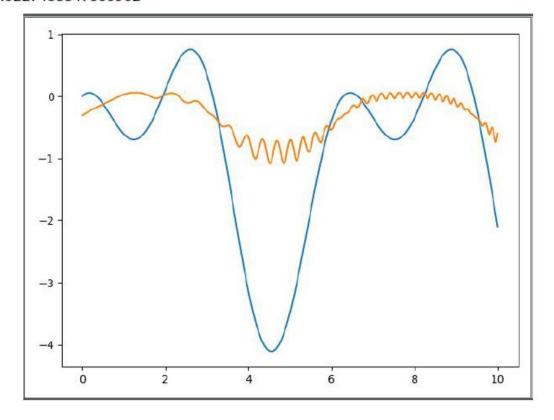
```
equation = cos(cos(cos(x*x))*sin(sin(x))+

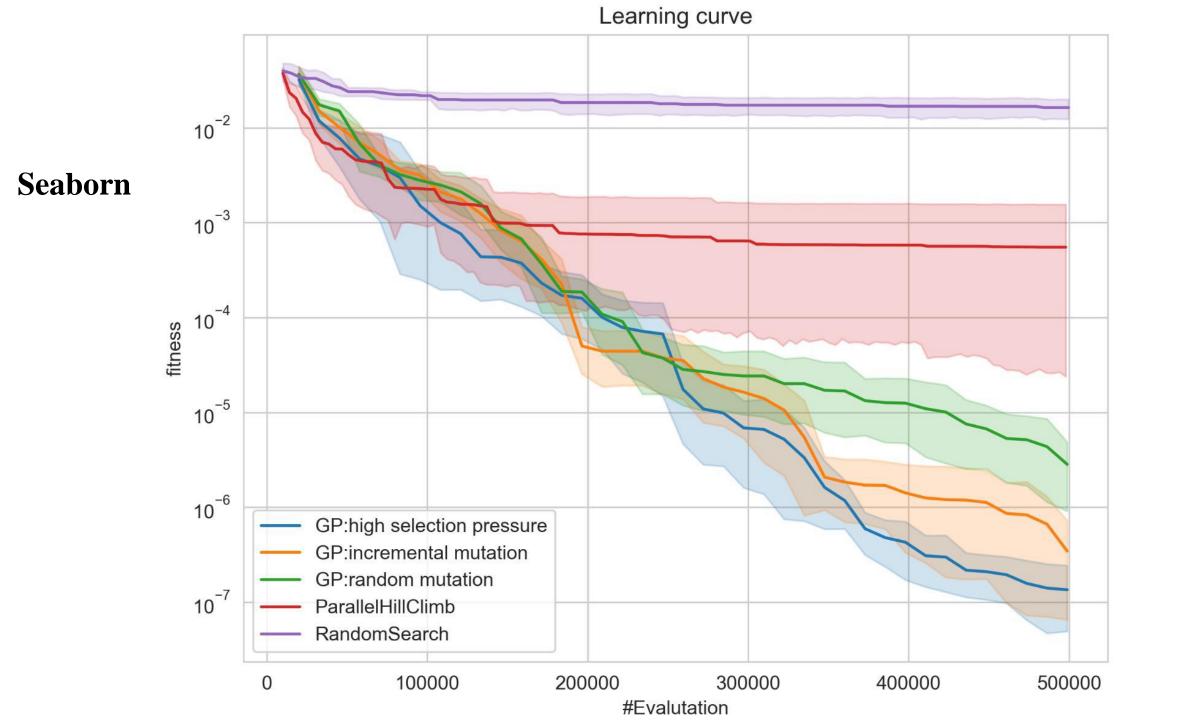
x/x*(-9.247776198625752)+

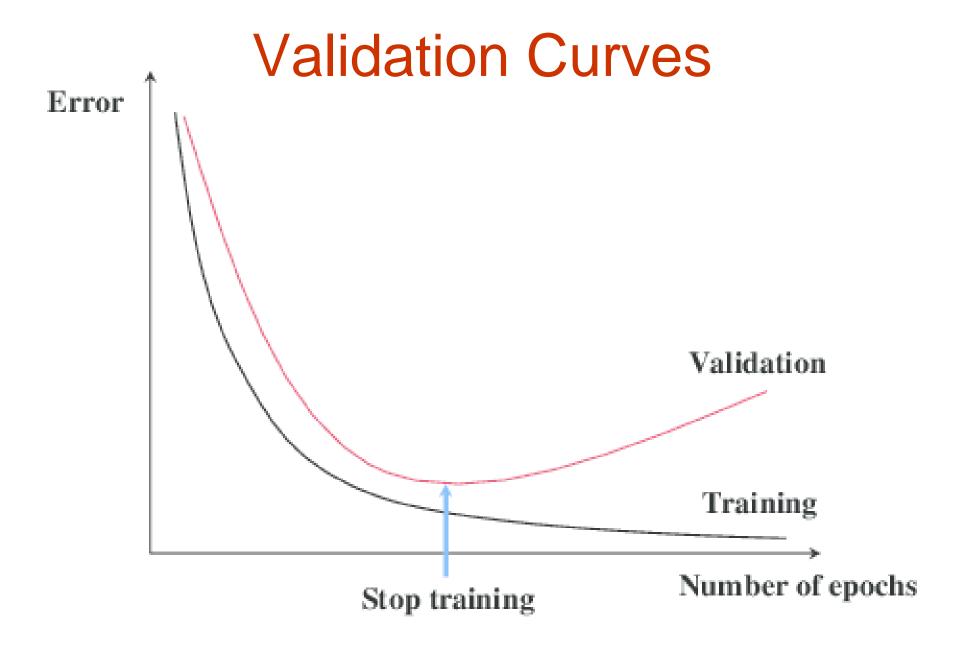
(-8.62238505749605)/(-4.15149813701656))-

sin((1.2185149095292367))

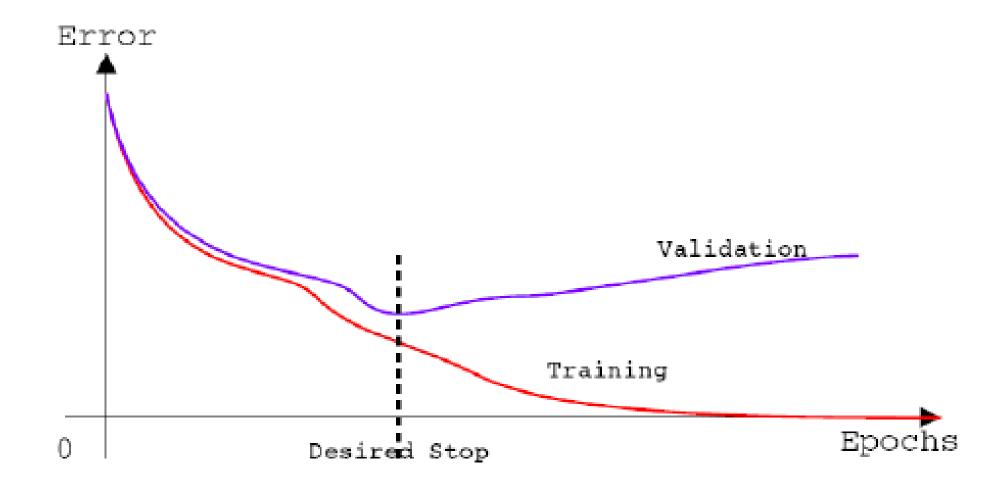
MSE = 1.5227438847355902
```



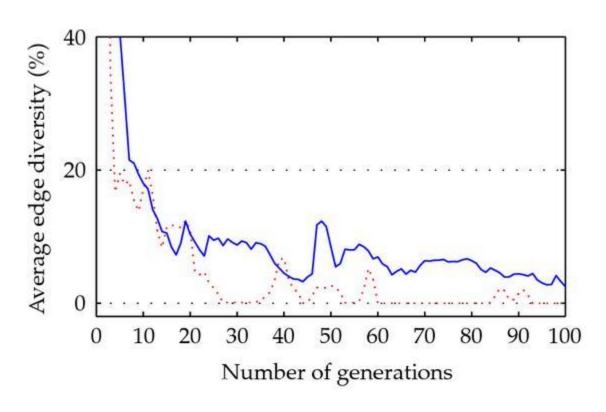




https://en.wikipedia.org/wiki/Early_stopping



Diversity



Without singular mating poolWith singular mating pool

