Chen Yang UFid:52109967

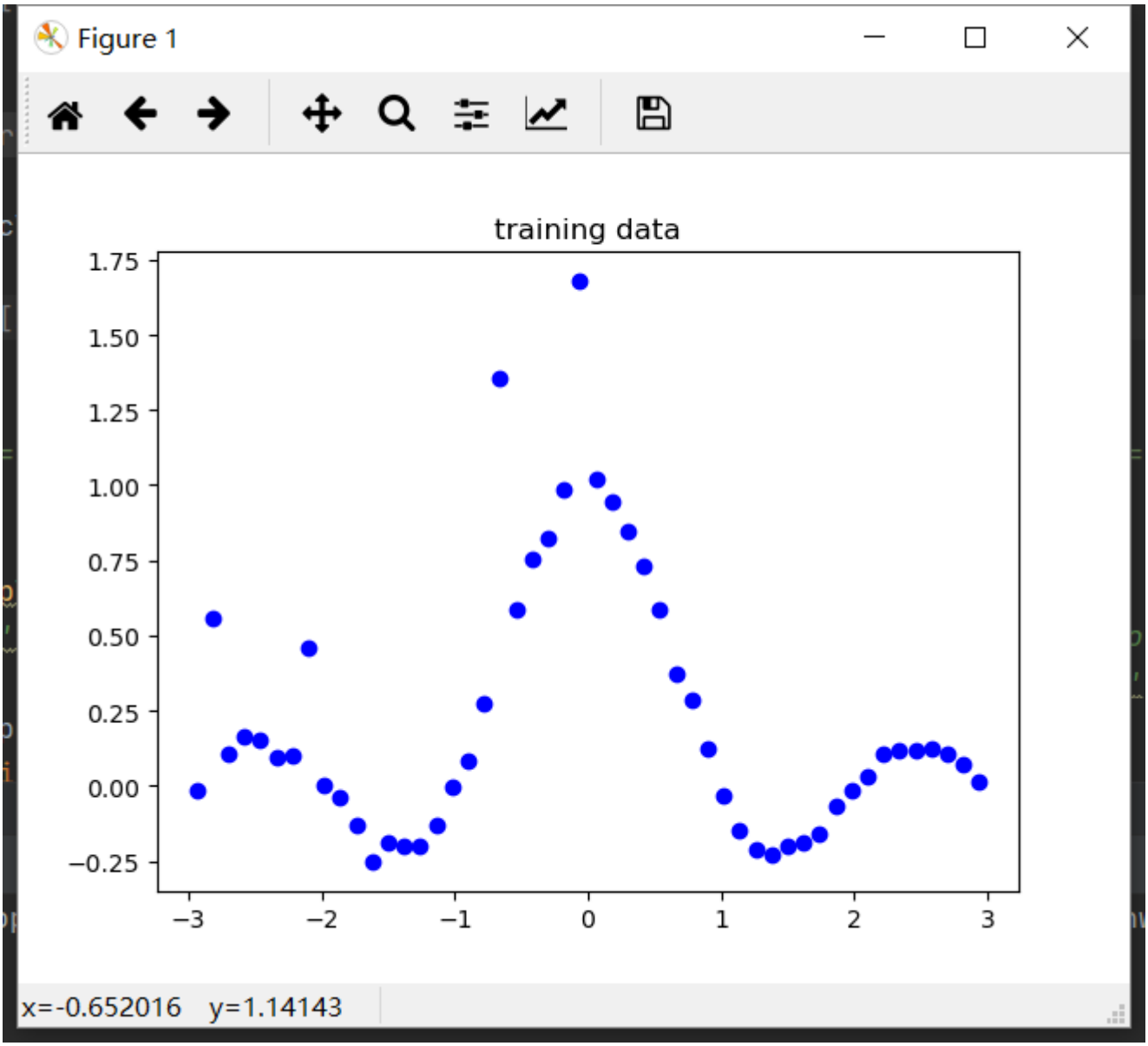
1. No, cuz the choose of miu value is different

2. Yes, cuz the value of M will cause the overfitting if M is too big

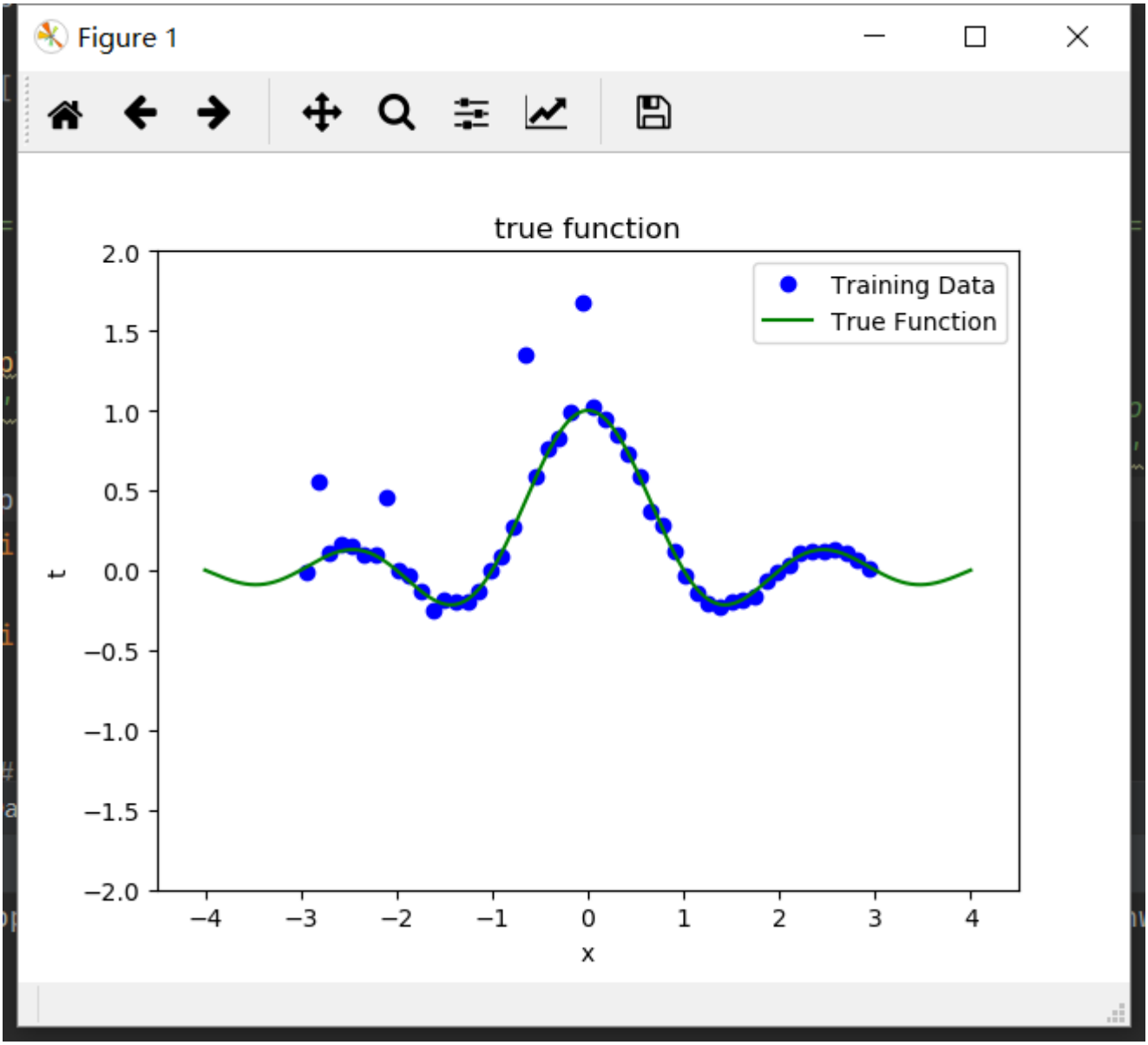
3. The ideal value of s is 1, s represents the standatd deviation ,

4. The choice of s affects the result of normalization if s is too large, the

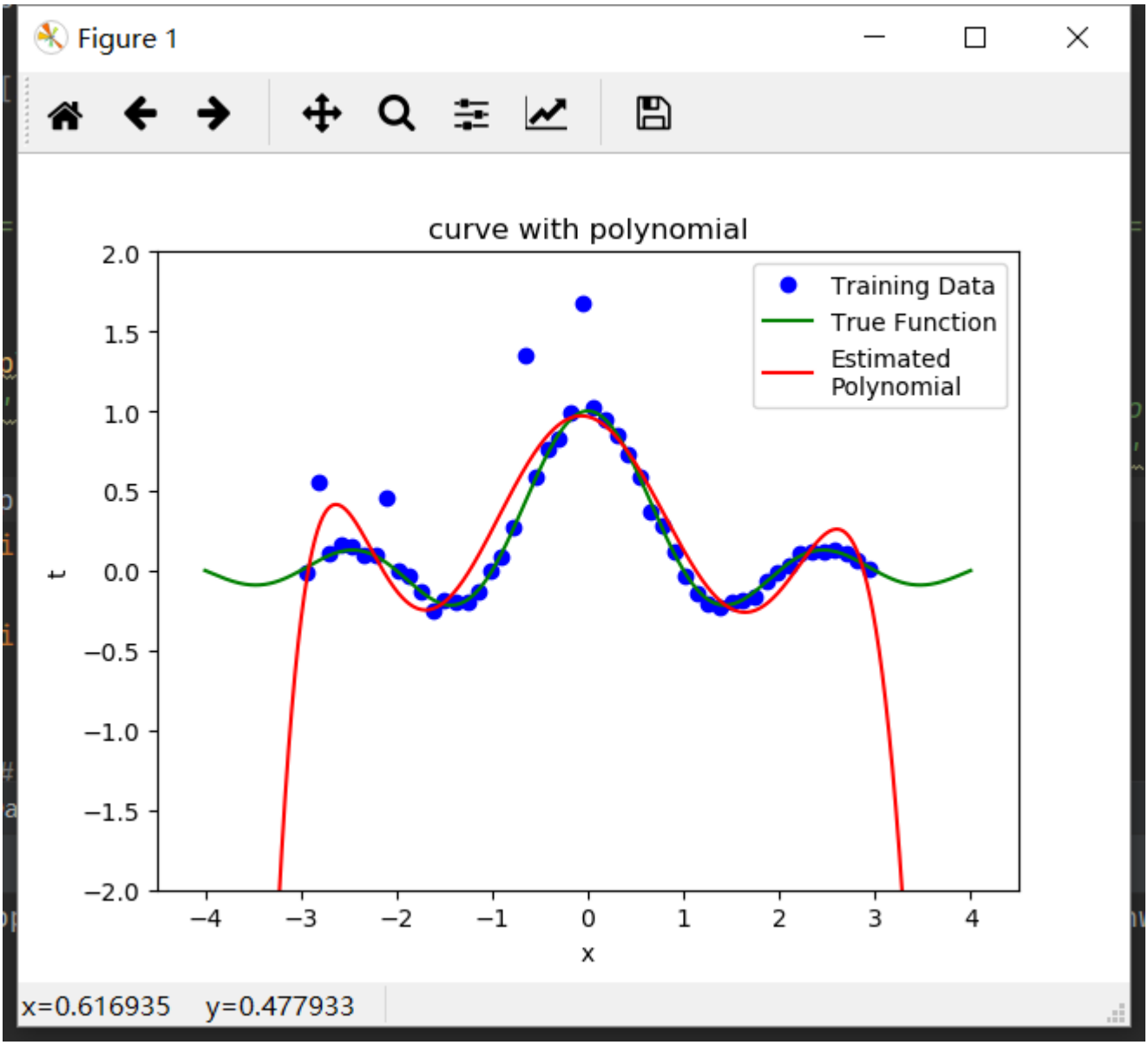
Training data



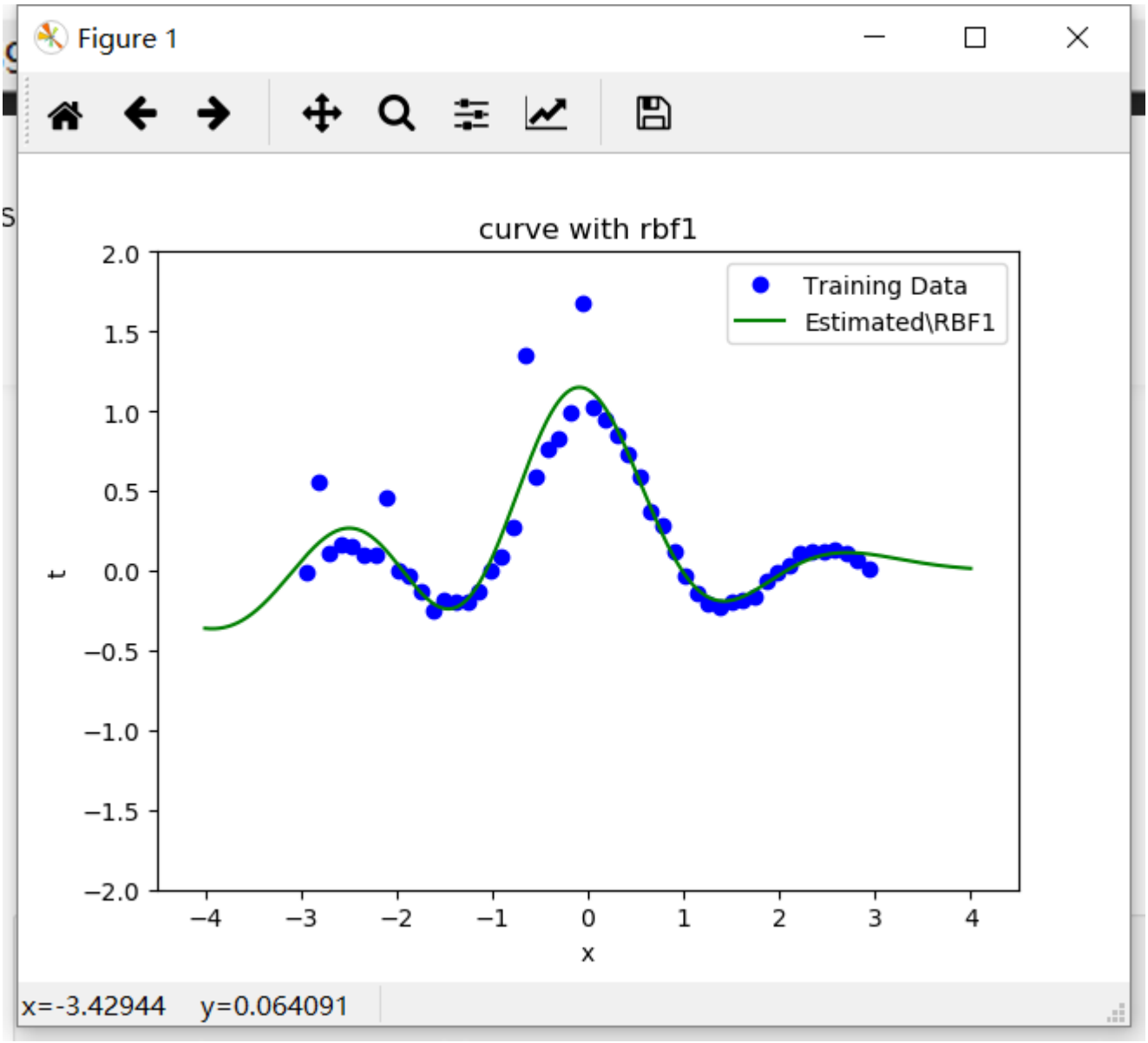
True Function



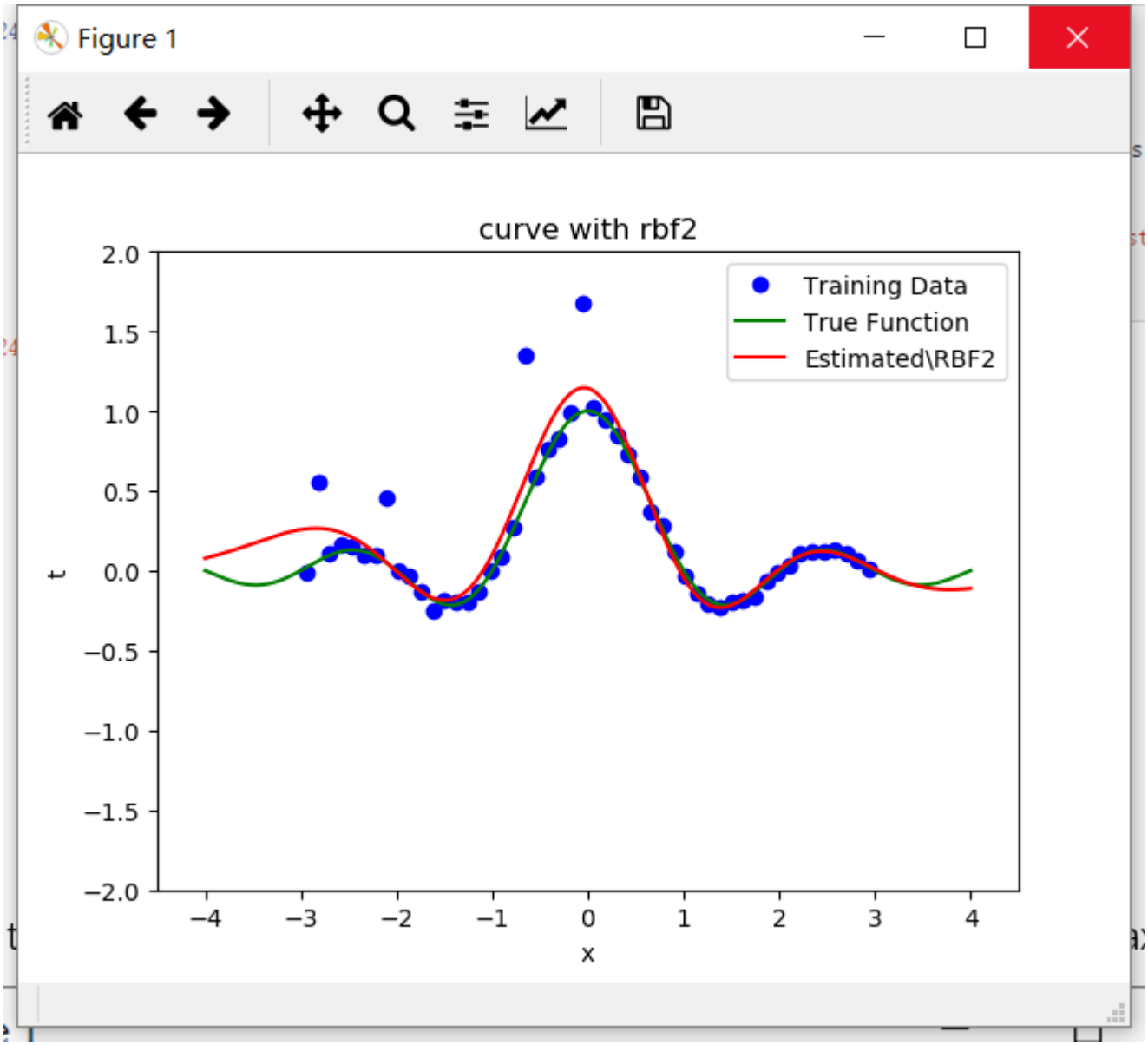
True Function vs Polynomial



RBF evenly spaced means



RBF training data means



M value on the x-axis and the absolute error (|y-t|) on the Test data on the y-axis

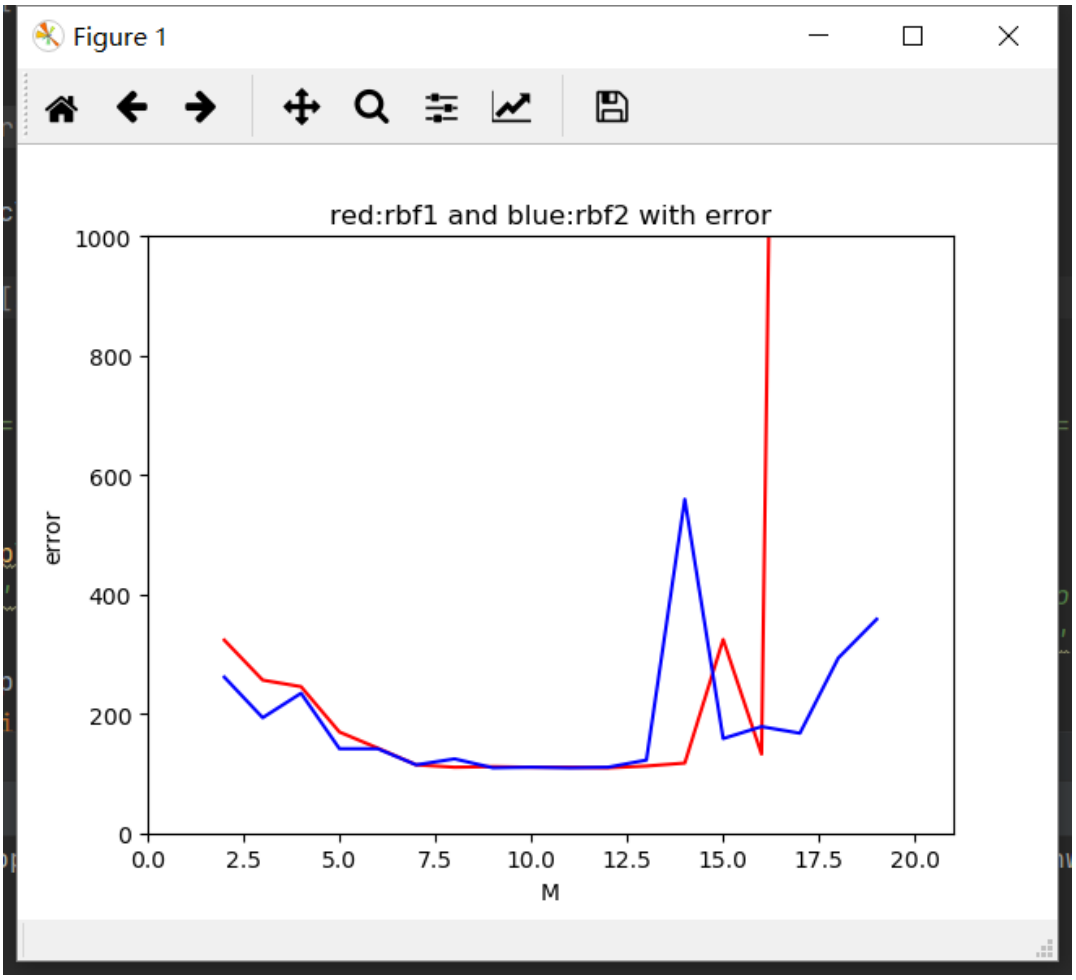


Figure 1
red:rbf1 and blue:rbf2 with error
1000
800
600
400
200
0
error
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
M