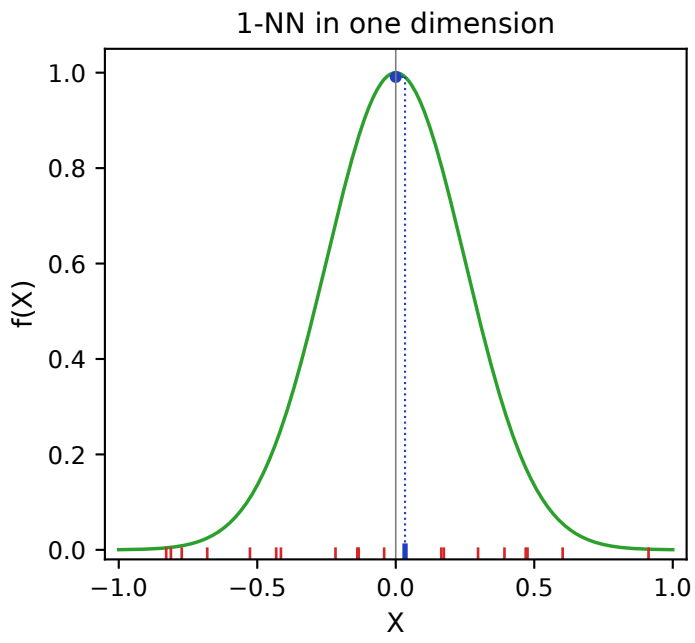
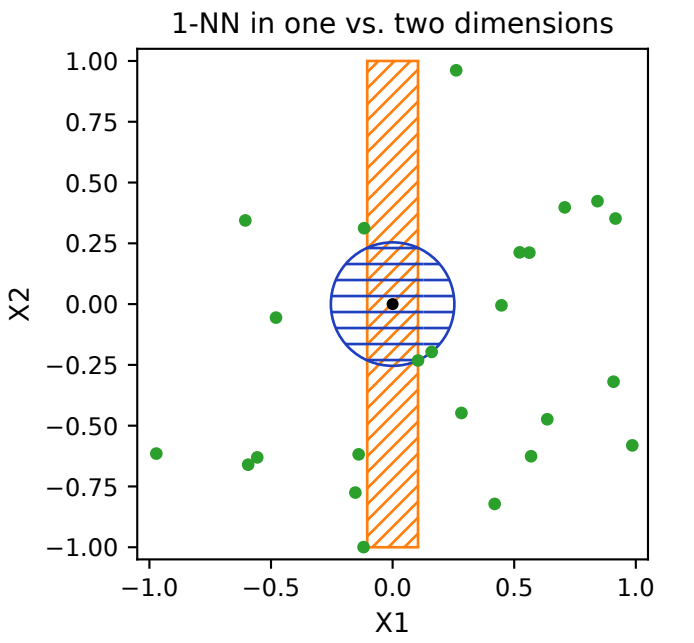
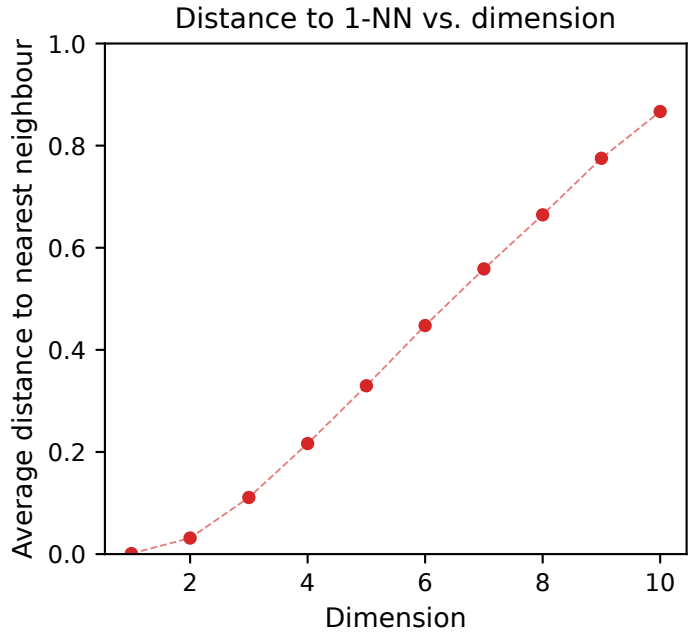
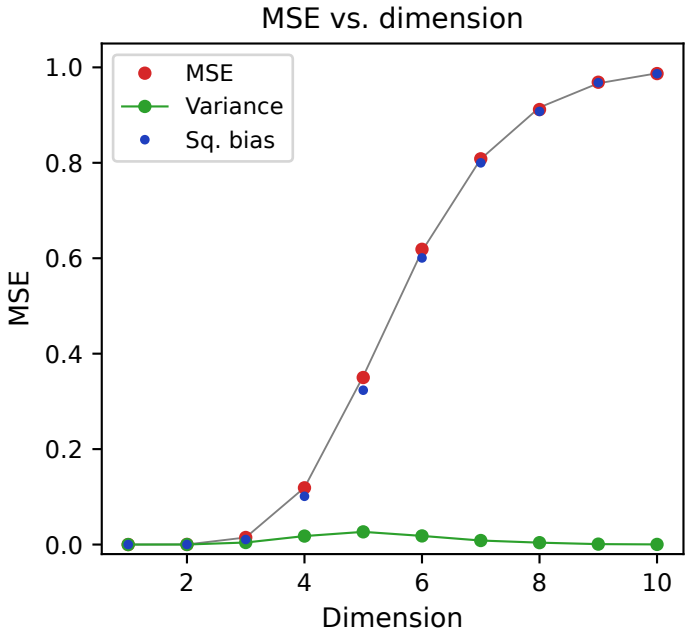

1-NN in one dimension
f(X)
X
1.0
0.8
0.6
0.4
0.2
0.0
−1.0
−0.5
0.0
0.5
1.0


1-NN in one vs. two dimensions
X2
X1
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
−1.0
−0.5
0.0
0.5
1.0


Distance to 1-NN vs. dimension
Average distance to nearest neighbour
Dimension
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10


MSE vs. dimension
MSE
Dimension
MSE
Variance
Sq. bias
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10