09/01/2020

Figure 1: $y = x^4$ with sd = 100
Figure 2: $y = \sin(x)$ with sd = 1

- tail behavior: bandwidth shrink to 0 as x increase (plot 3 and 4)
- The lowest MSE is given when bandwidth = 10^{-1}. Compare this with the optimal curve
- Compare the simulated MSE with the theoretical MSE (Simulation L = 100000, bandwidth = 0.1)
- Wrapped boundary for kernel smooth?
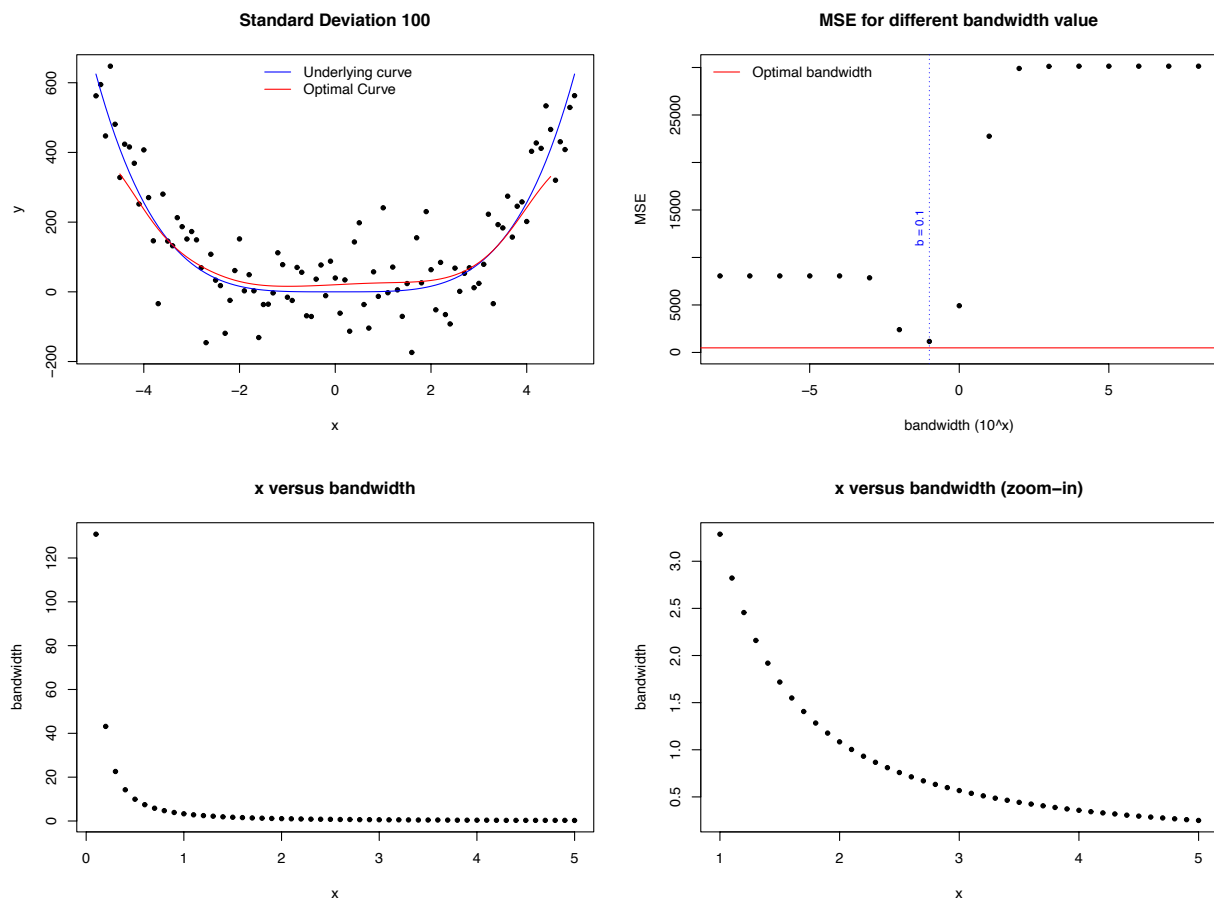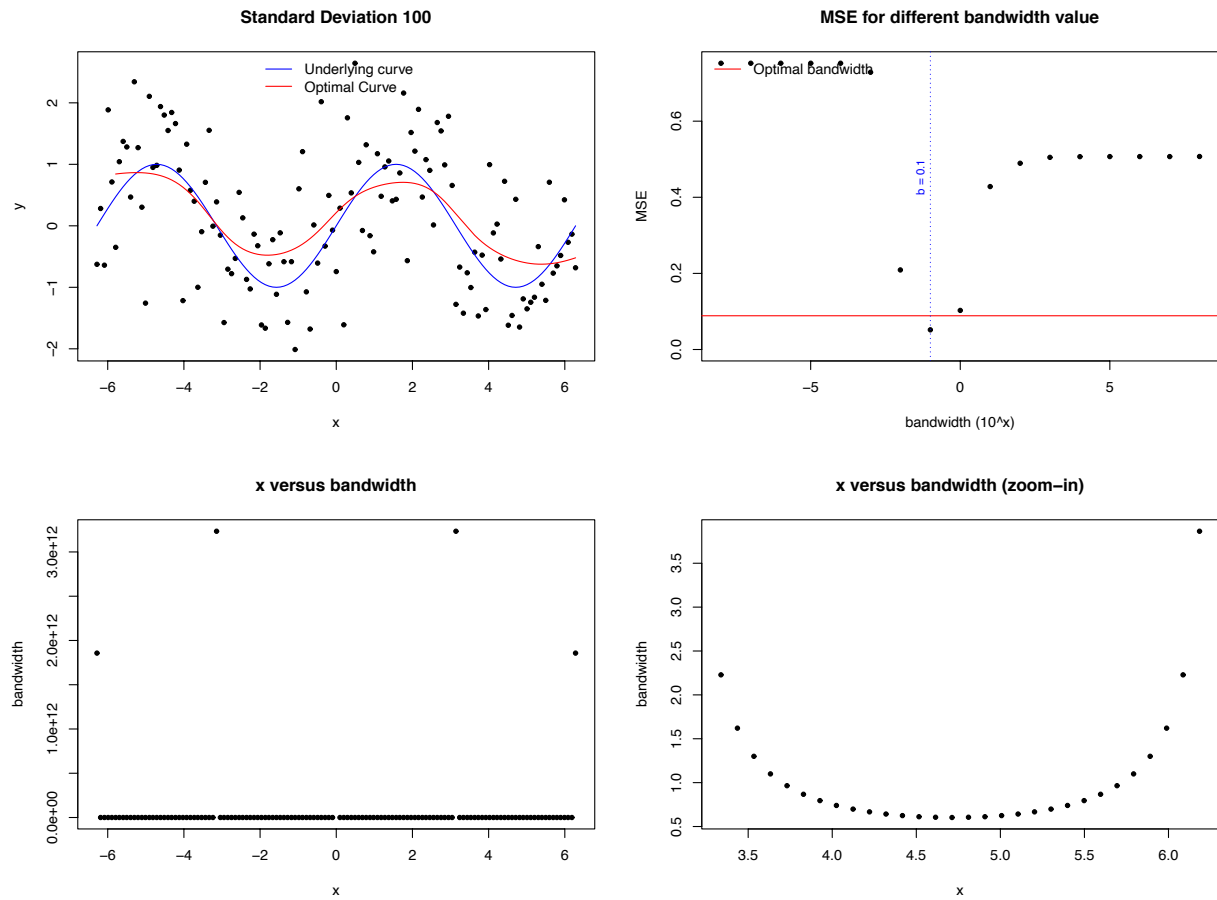- Adaptive curve * multiplier
- Simulated MSE < Theoretical MSE?

Figure 1: $y = x^4$

Figure 2: y = sin(x)