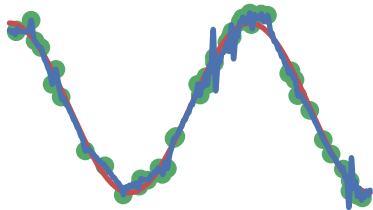
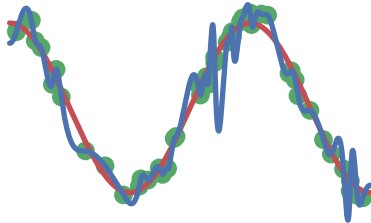


Benign Overfitting



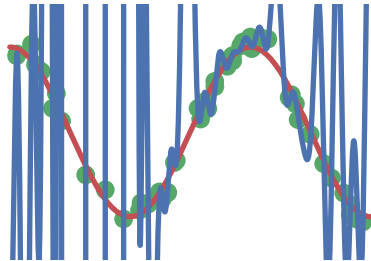
$$\mathcal{R}_n \rightarrow 0$$

Tempered Overfitting



$$\mathcal{R}_n \rightarrow \Theta(1)$$

Catastrophic Overfitting



$$\mathcal{R}_n \rightarrow +\infty$$