## **Prediction**

f(x) is a Gaussian Process with stationary prior, m(x)=0

$$p(f(x)|f(x_1),\ldots,f(x_n)) = \frac{p(f(x),f(x_1),\ldots,f(x_n))}{p(f(x_1),\ldots,f(x_n))}$$

$$= \frac{\mathcal{N}(f(x), f(x_1), \dots, f(x_n)|0, \widetilde{C})}{\mathcal{N}(f(x_1), \dots, f(x_n)|0, C)}$$

