Active learning of constraints

- mean function $\mu(\theta)$
- confidence interval $\mu(\theta) \pm 2\sigma(\theta)$
 - **x** observation $(\theta_i, g(\theta_i))$

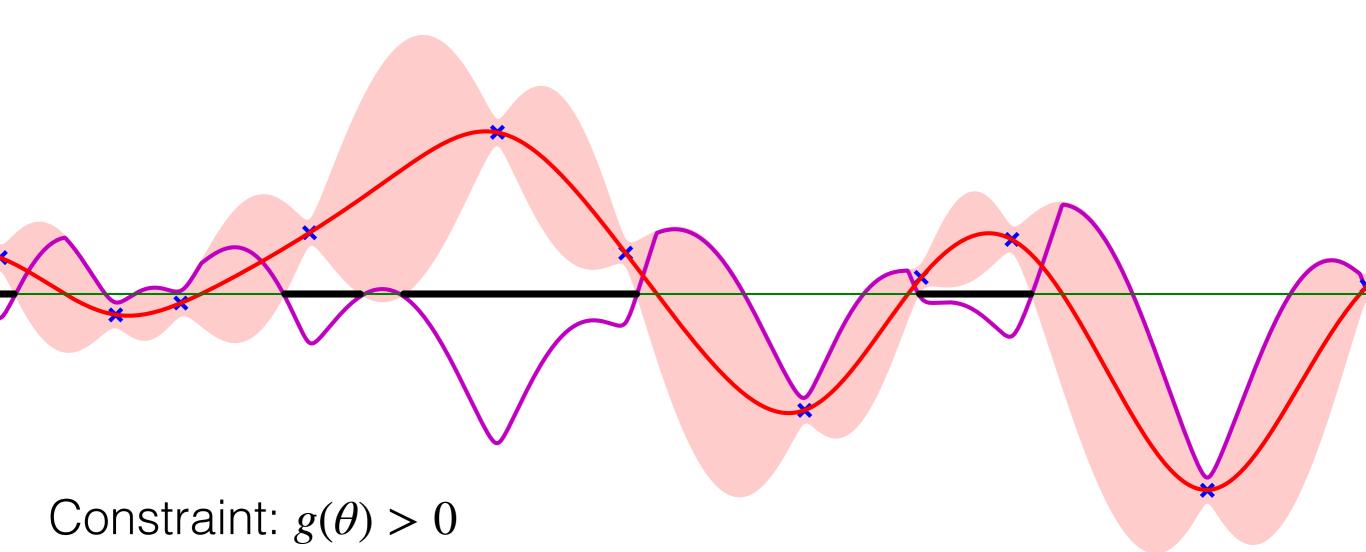
#observations = 11

acquisition function

$$\phi(\theta) = 2\sigma(\theta) - |\mu(\theta)|$$

next: test action with parameter

$$\theta^* = \operatorname{argmax} \phi(\theta)$$



Active learning of constraints

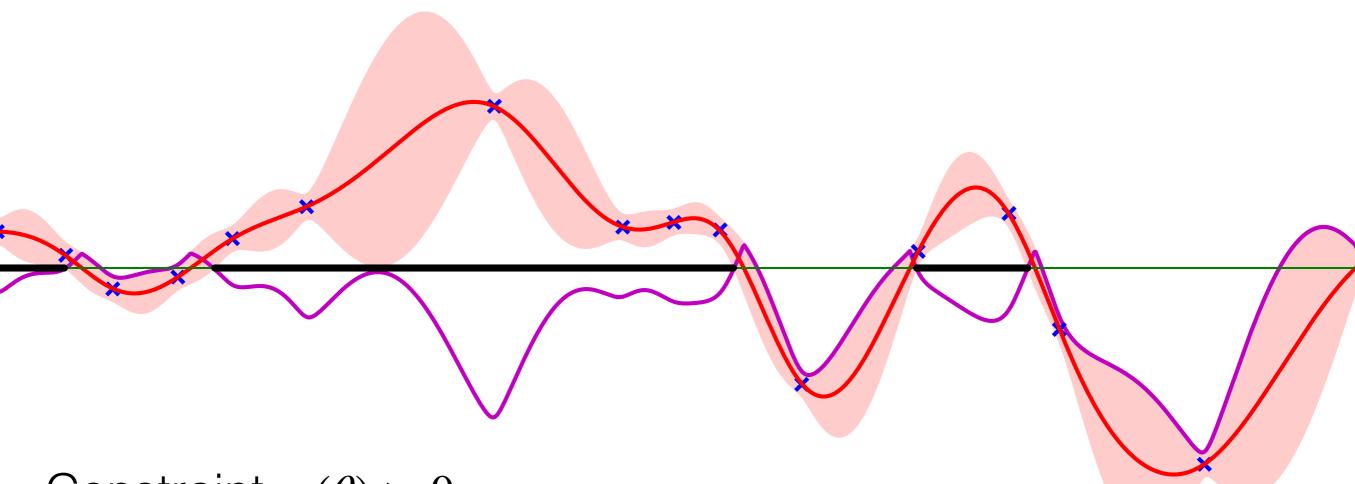
- mean function $\mu(\theta)$
- confidence interval $\mu(\theta) \pm 2\sigma(\theta)$
 - \times observation $(\theta_i, g(\theta_i))$

#observations = 16

acquisition function $\phi(\theta) = 2\sigma(\theta) - |\mu(\theta)|$

next: test action with parameter

$$\theta^* = \operatorname{argmax} \phi(\theta)$$



Constraint: $g(\theta) > 0$