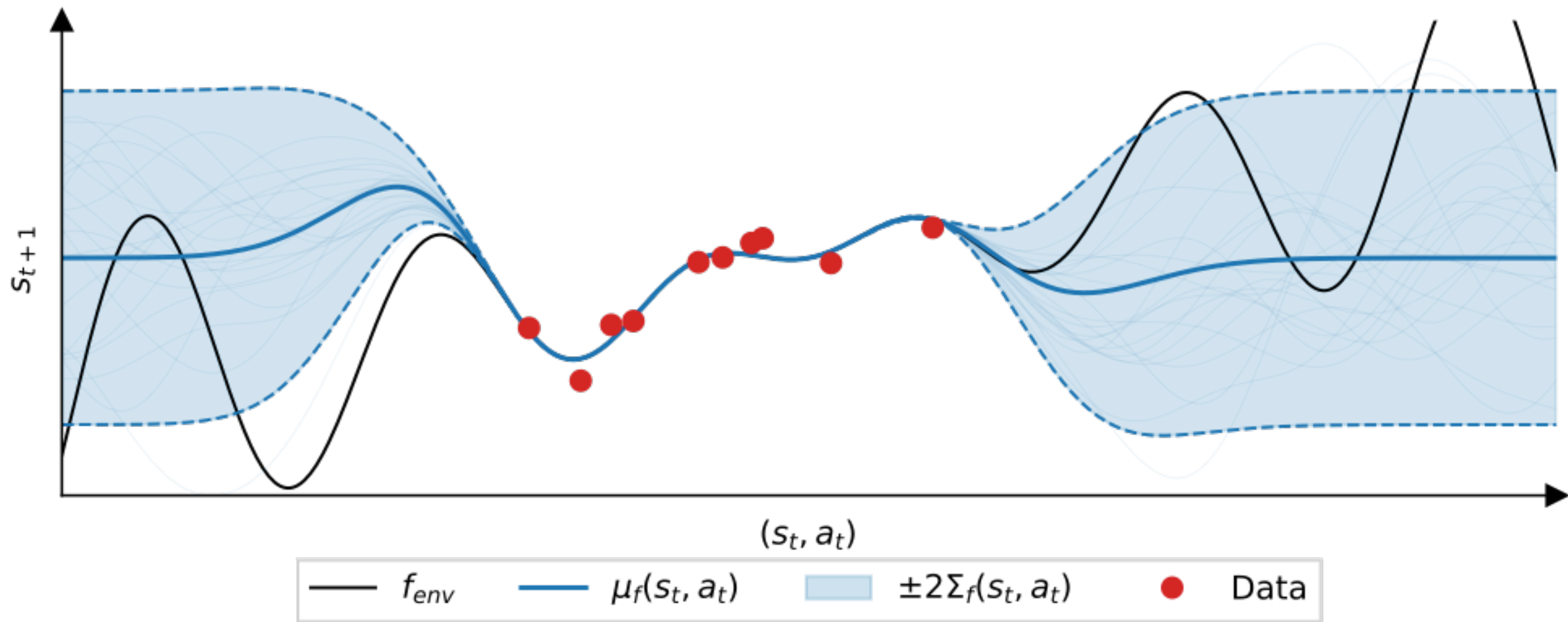
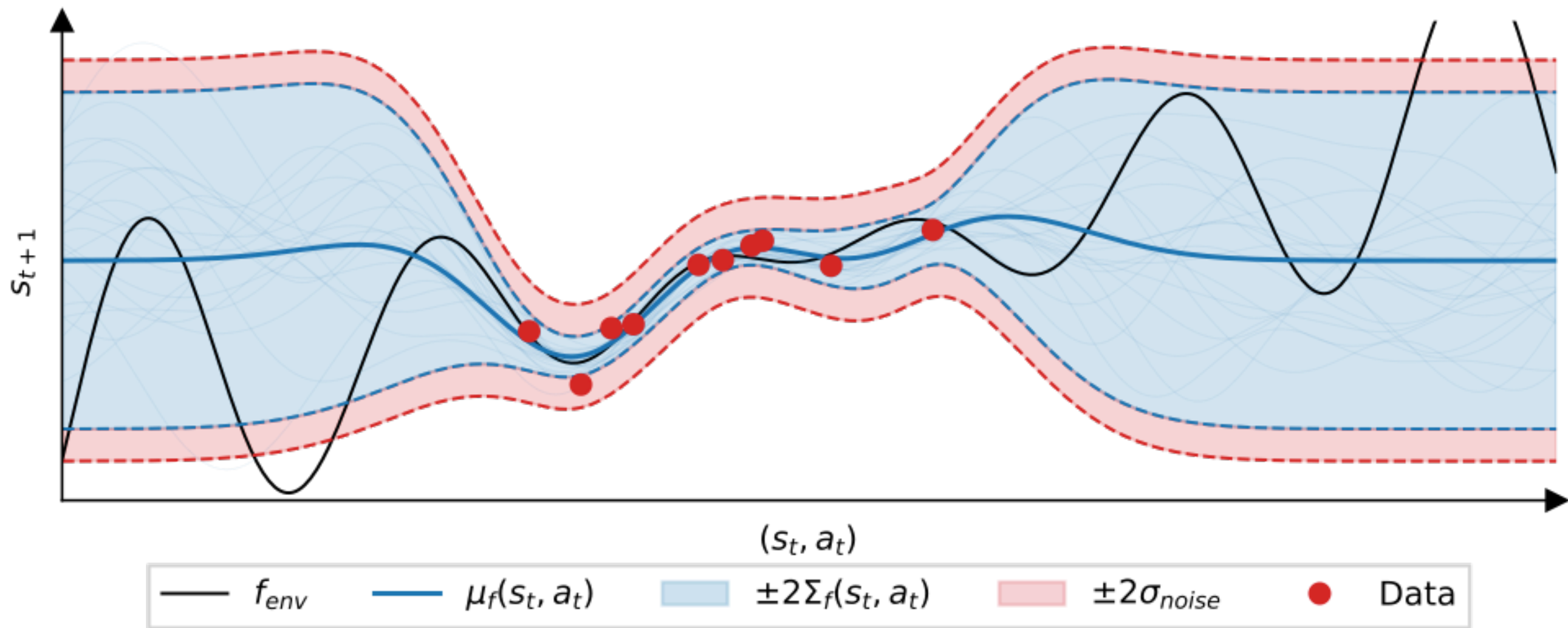




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Source of Uncertainty

# Stochastic Environments

3

6

$$s_{t+1} = f_{env}(s_t, a_t) + e_t \text{ where } \mathbb{E}[e_t] = 0$$



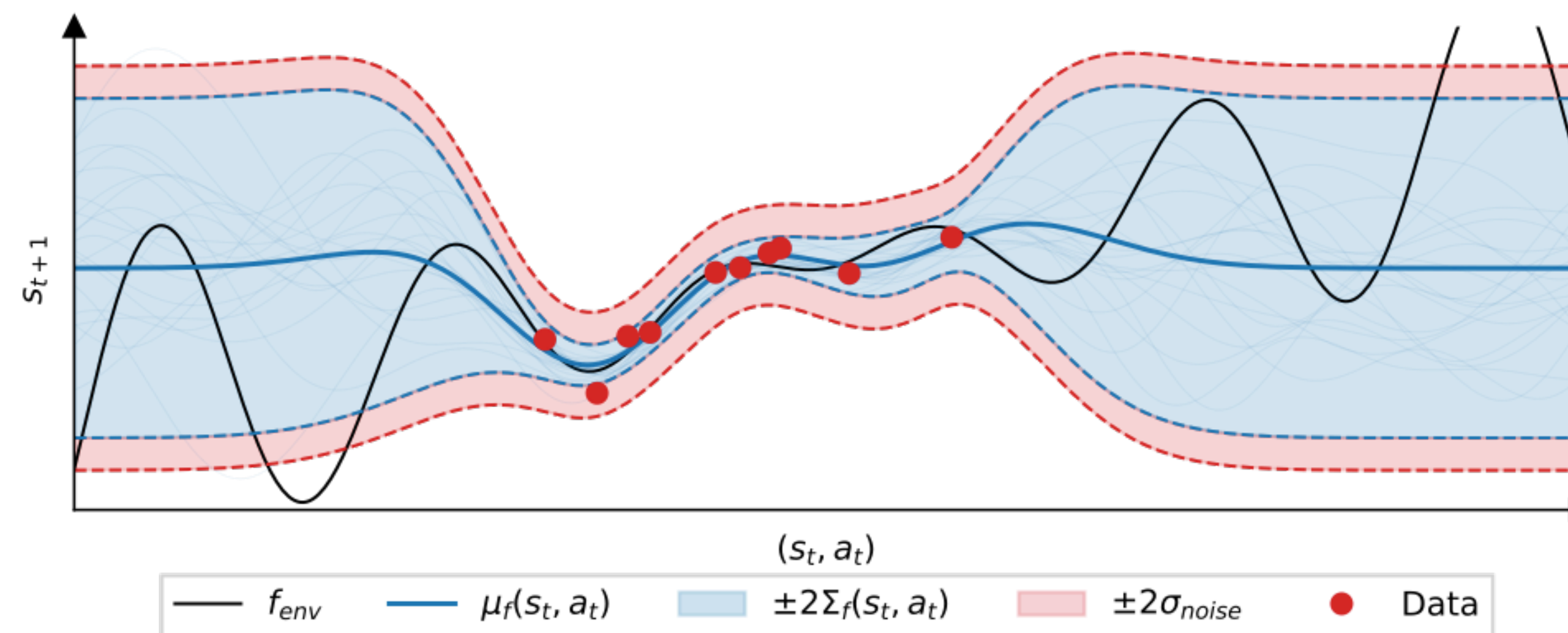
**Aleatoric uncertainty**

# Sources of Uncertainty

## Stochastic Environments

$$s_{t+1} = f_{env}(s_t, a_t) + \epsilon_t \quad \text{where} \quad \mathbb{E}[\epsilon_t] = 0$$

**Aleatoric uncertainty**



# Decision-making Under Uncertainty