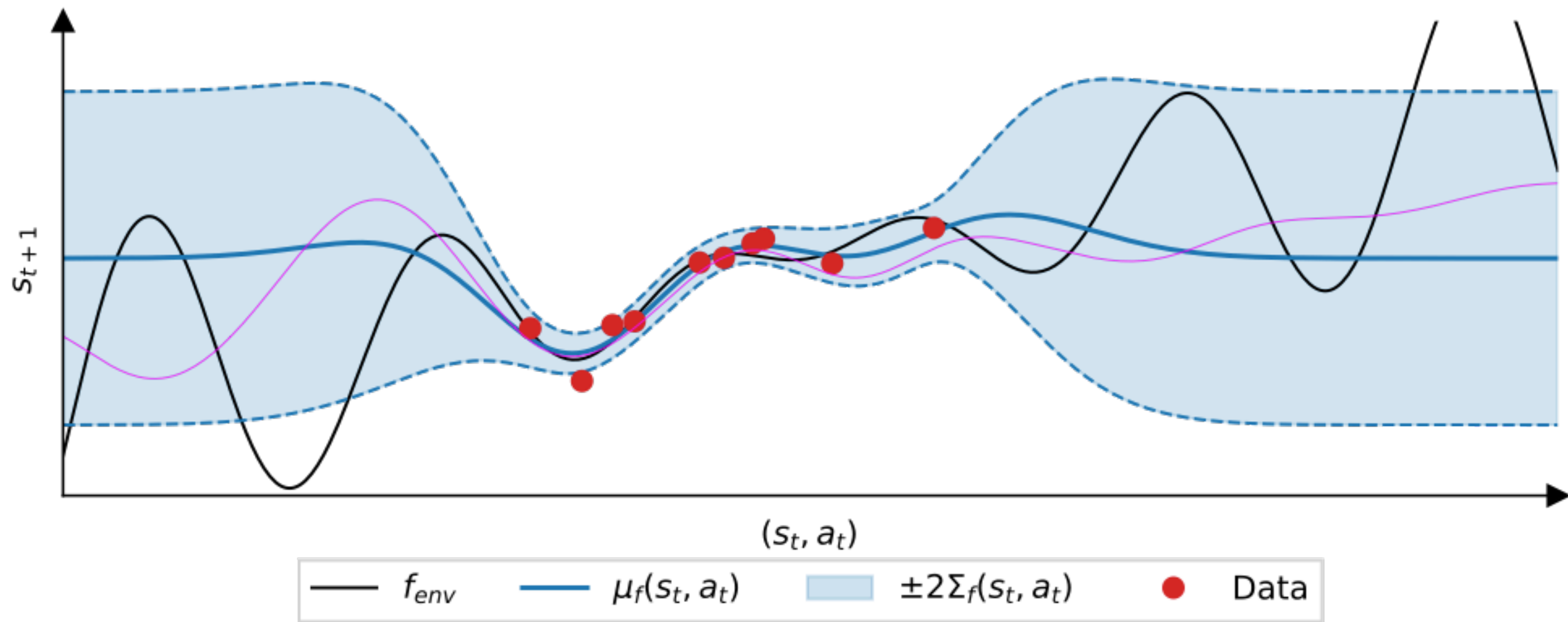
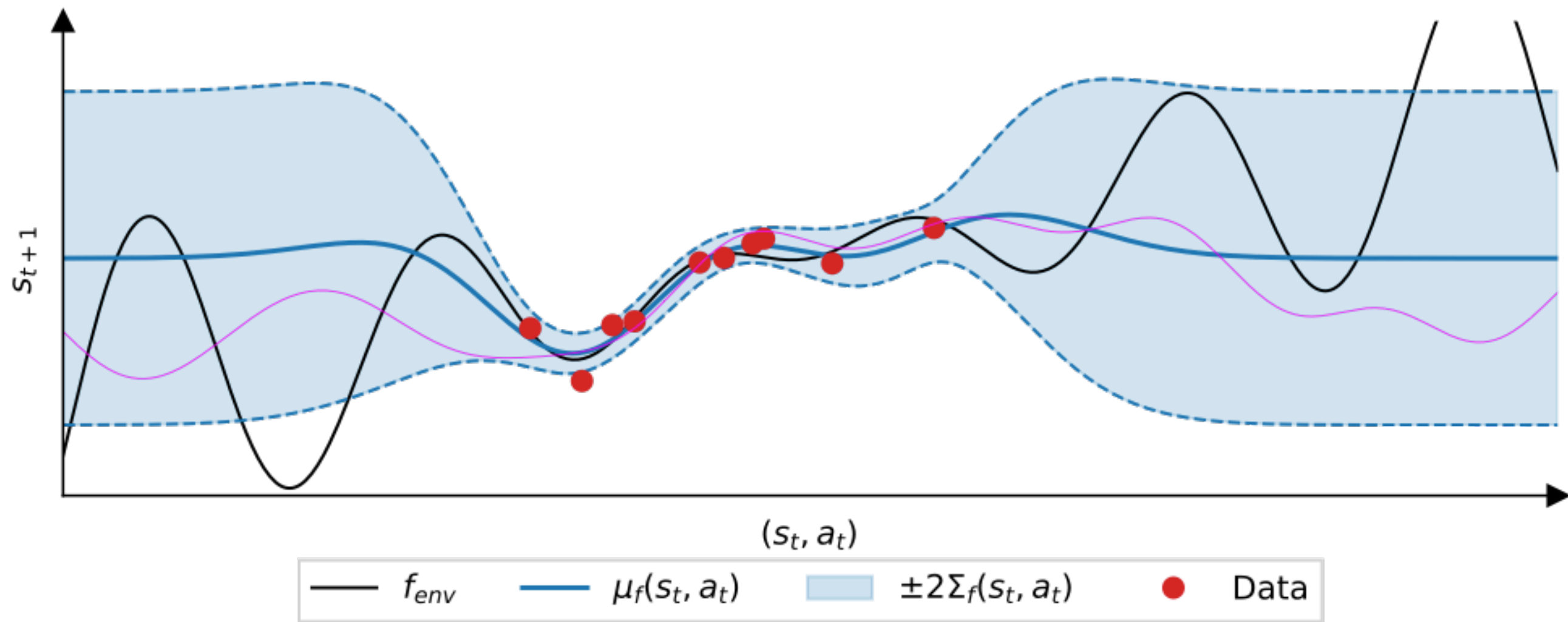




**FCAI**

**fcai.fi**

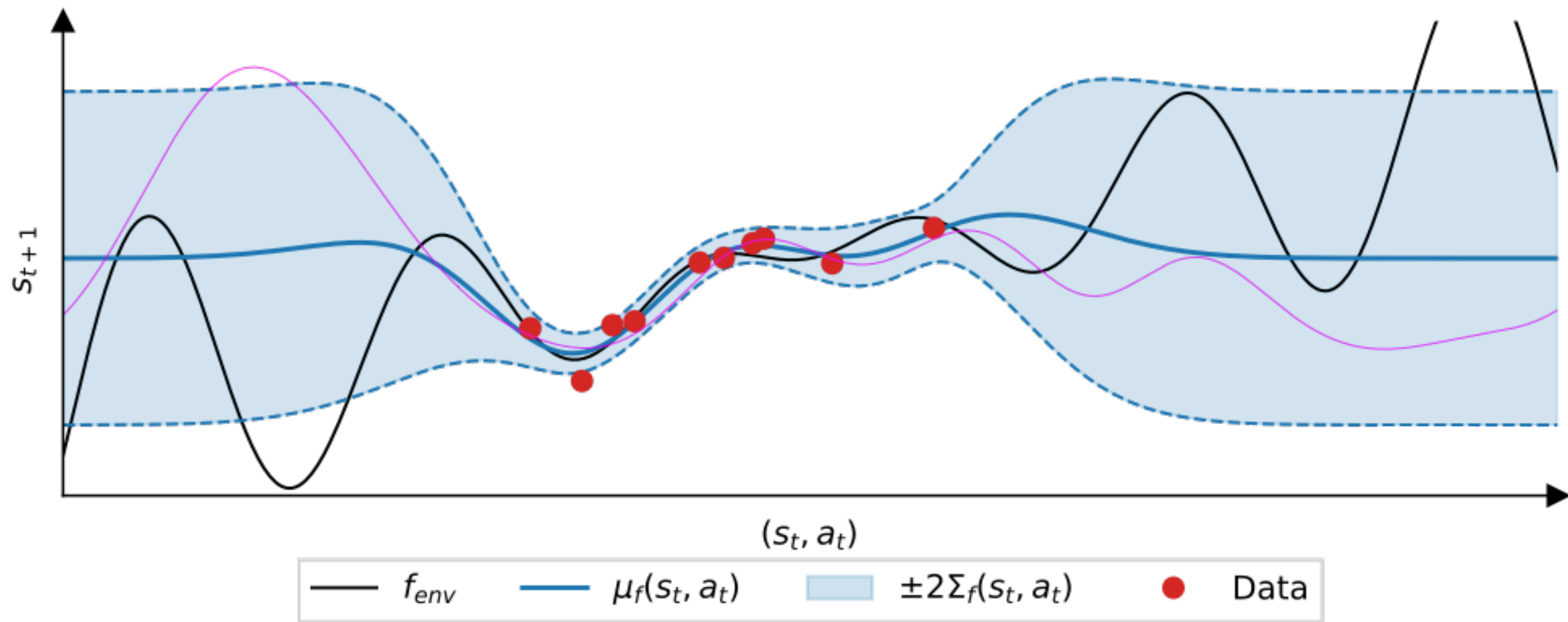




# Exploration via Posterior Sampling

3

9



$$\pi^{PS} = \arg \max_{\pi} J(\pi; \tilde{f}), \quad \tilde{f} \sim p(f | \mathcal{D})$$

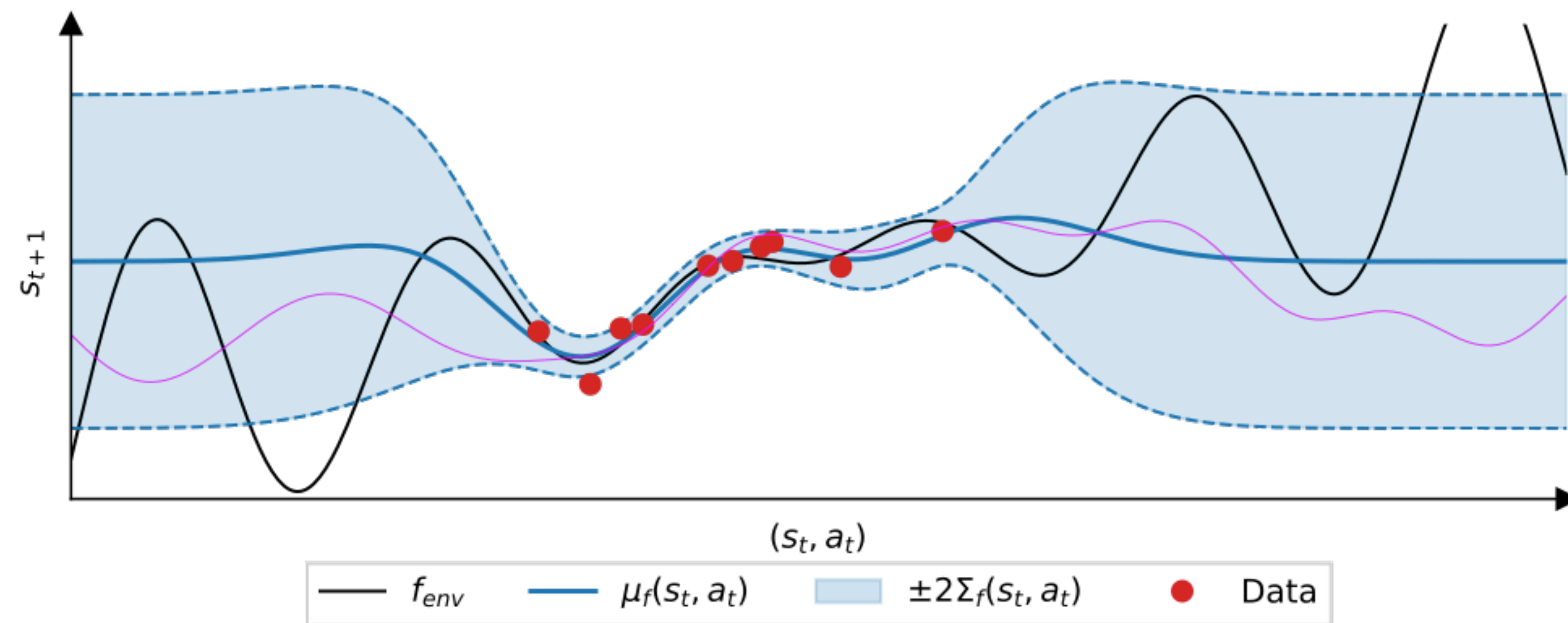


# Osbanda et al (2013). (More) Efficient Reinforcement Learning via Posterior Sampling. NeurIPS.

# Nonextrahyperparameters

# Exploration via Posterior Sampling

$$\pi^{PS} = \arg \max_{\pi} J(\pi; \tilde{f}), \quad \tilde{f} \sim p(f \mid \mathcal{D})$$



No extra hyperparameters

# Exploration via Upper Confidence Bound

$$\pi^{UCB} = \arg \max_{\pi} \max_{f \in \mathcal{M}} J(\pi; f)$$