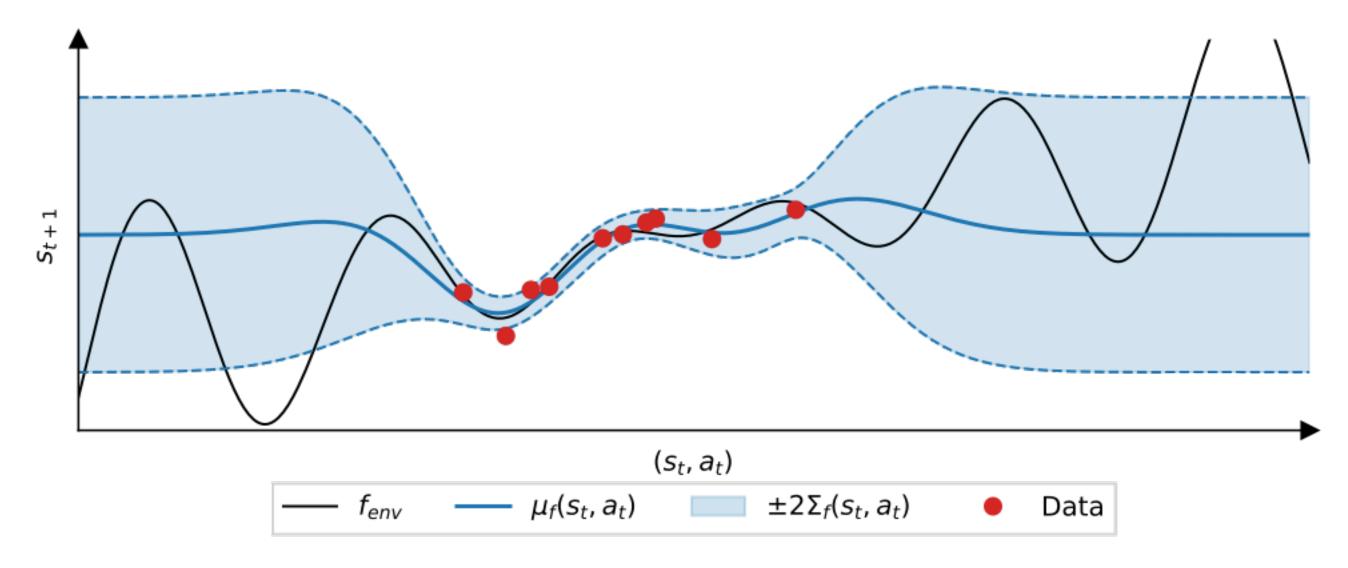
### FCAI fcai.fi

## Model Averaging

$$\pi^{Greedy} = \underset{\pi}{\arg \max} \mathbb{E}_{p(f|\mathcal{D})} \Big[ J(\pi; f) \Big]$$



### PILCO, PETS, etc

#### **Combats model bias**

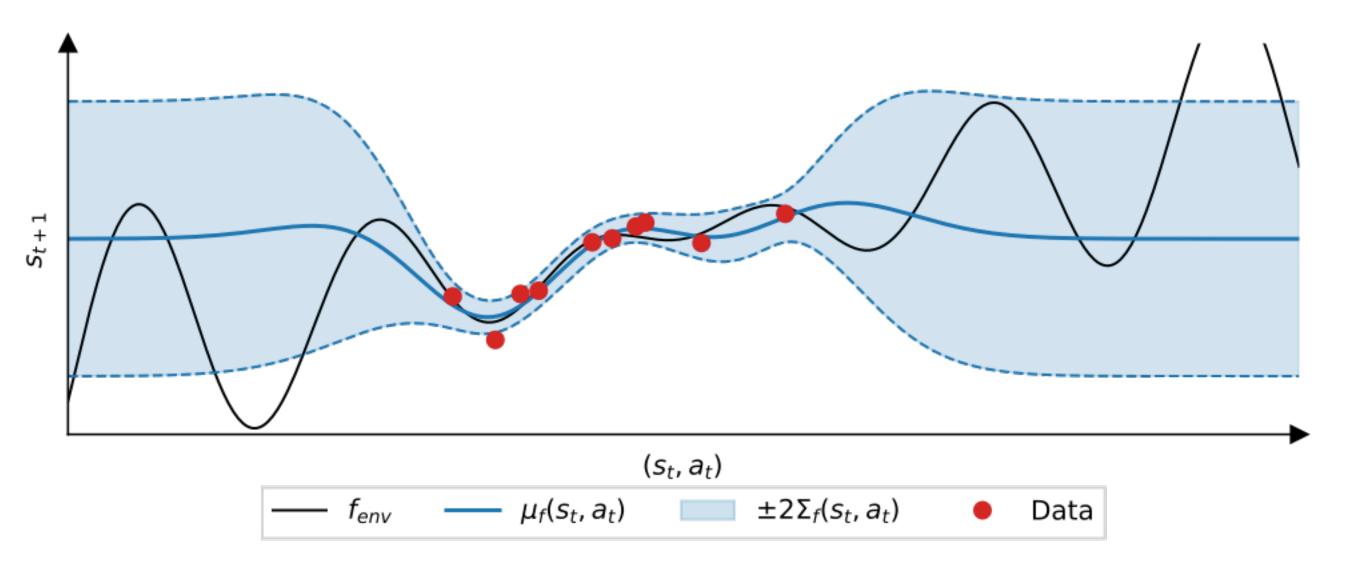
Deisenroth et al. (2011). PILCO: A Model-Based and Data-Efficient Approach to Policy Search. ICML. Kurtland et al. (2018). Deep Reinforcement Learning in a Handful of Trials using Probabilisitic Dynamics Models. NeurIPS.

# Model Averaging

$$\pi^{Greedy} = \arg\max_{\pi} \mathbb{E}_{p(f|\mathcal{D})} \Big[ J(\pi; f) \Big]$$

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Kurtland et al. (2018). Deep Reinforcement Learning in a Handful of Trials using Probabilisitic Dynamics Models. NeurIPS. fcai.fi



### **Exploration via Posterior Sampling**

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

