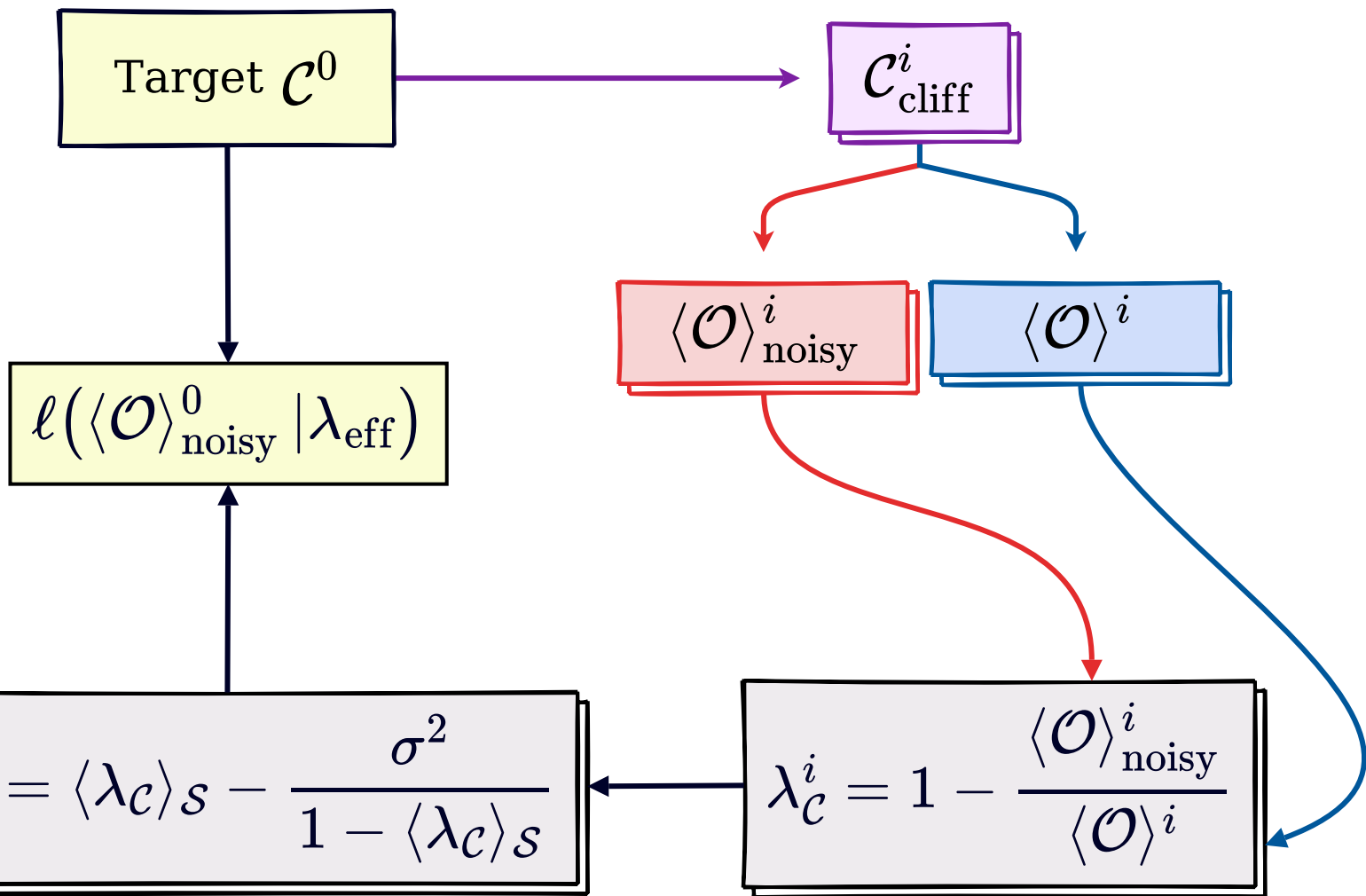


Training set  $\mathcal{S}$



Target  $\mathcal{C}^0$

$\mathcal{C}_{\text{cliff}}^i$

$\langle \mathcal{O} \rangle_{\text{noisy}}^i$

$\langle \mathcal{O} \rangle^i$

$\ell(\langle \mathcal{O} \rangle_{\text{noisy}}^0 | \lambda_{\text{eff}})$

$$\lambda_{\text{eff}} = \langle \lambda_{\mathcal{C}} \rangle_{\mathcal{S}} - \frac{\sigma^2}{1 - \langle \lambda_{\mathcal{C}} \rangle_{\mathcal{S}}}$$

$$\lambda_{\mathcal{C}}^i = 1 - \frac{\langle \mathcal{O} \rangle_{\text{noisy}}^i}{\langle \mathcal{O} \rangle^i}$$

Learn noise map  $\ell(\cdot | \lambda_{\text{eff}})$

Noise parameters  $\lambda_{\mathcal{C}}$  and  $\sigma$