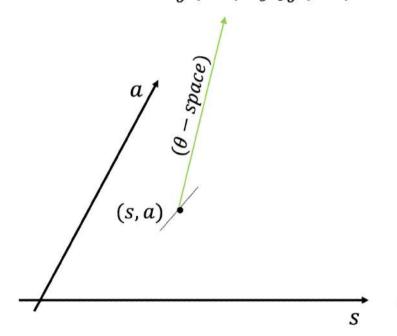
TD-learning

$\Delta\theta \propto \delta_{\theta}(s,a)\nabla_{\theta}Q_{\theta}(s,a)$



Taylor TD-learning

$$\mathbb{E}_{\xi_a;\xi_s}[\Delta\theta] \approx \mathbb{E}_{\xi_a;\xi_s}[\delta_\theta(s+\xi_s,a+\xi_a)\nabla_\theta Q_\theta(s+\xi_s,a+\xi_a)]$$

