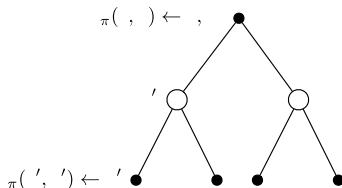


## Lecture 2: Markov Decision Processes

## └ Markov Decision Processes

## └ Bellman Expectation Equation

Bellman Expectation Equation for  $q_\pi$  (2)

$$q_\pi(s, a) = \mathcal{R}_s^a + \gamma \sum_{s' \in \mathcal{S}} \mathcal{P}_{ss'}^a \sum_{a' \in \mathcal{A}} \pi(a'|s') q_\pi(s', a')$$