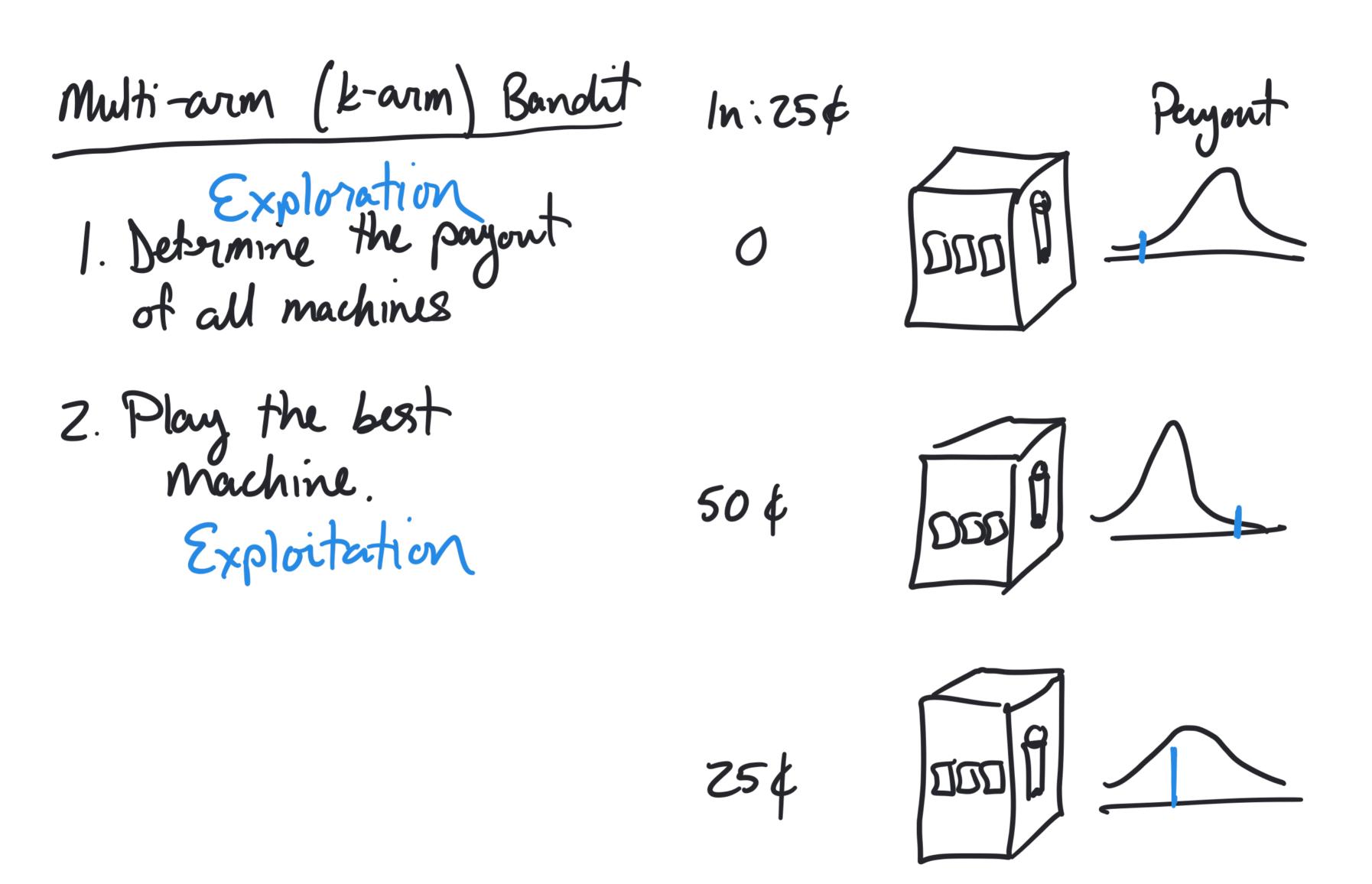
Introduction to
Reinforcement Learning
BIOE 498/598 P.1

Computer sci AI actions Environment AGENT Controlly Remard

OBJECTIVE: Max Erwards
min Ecosts

osjectives

- 1. Exploration Vs. Exploitation
 - Z. Policies
 - 3. Deep RL



What is the solution to Exploration vs. Exploration?

1. Do the optimal action most of the time. Exploit

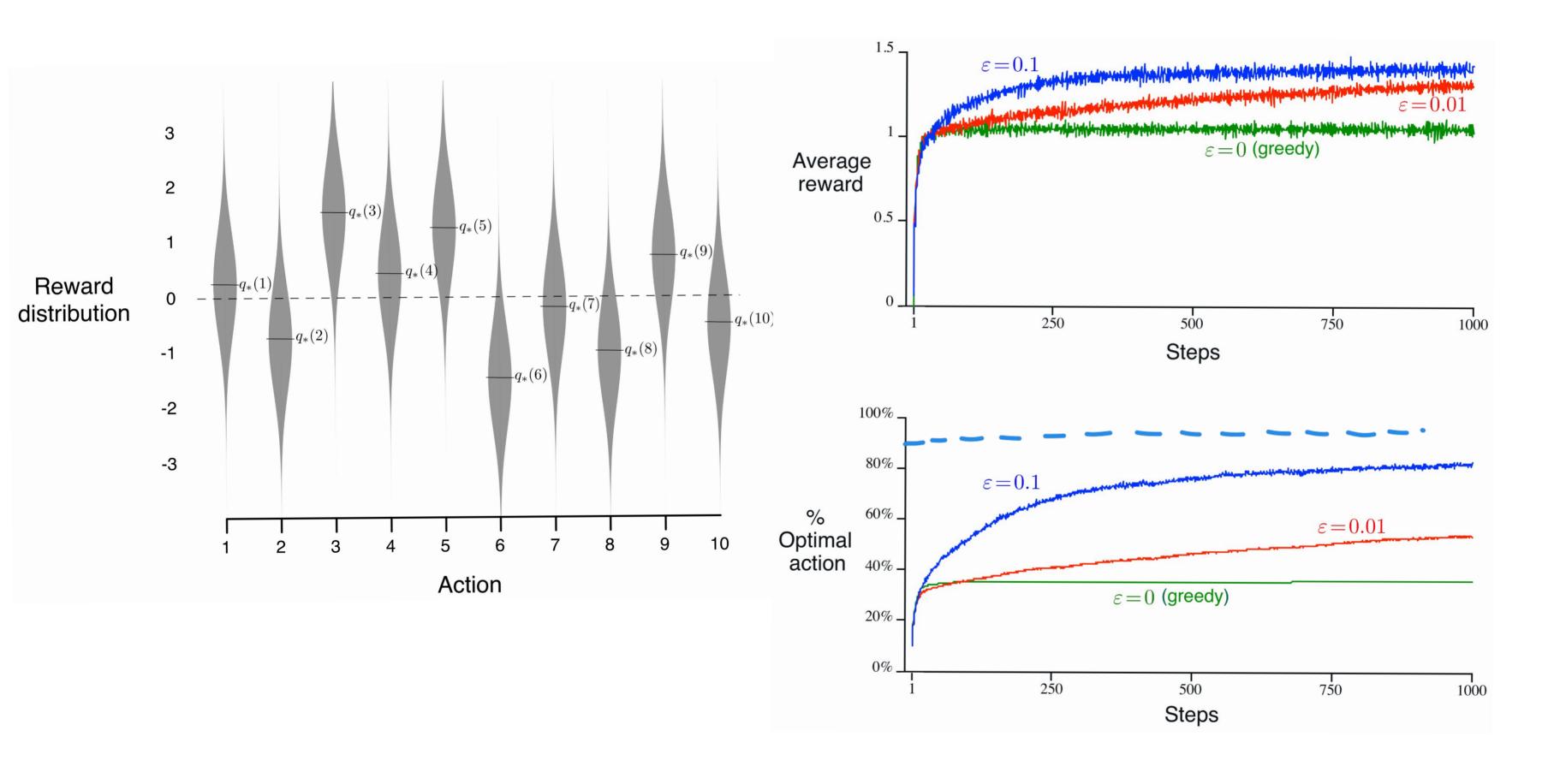
2. Some of the time, do random actions. Explore

Secondarionalists

E-greedy policy fraction of times where we explore

90% exploit, 10% Explore -> E=0.1

E-greedy policies for 10-arm bandits



Why does this look familiair? Resolution III: Screening, lots of factors
Confounded Effects CHOUNT PSM/CCD: Very intensive, few foutures clean, predictive