

**CSEP 573, Winter 2022**  
**Paper Report - Suggested Papers**

Choose one paper from the list of papers below and write a review of the paper (about one page) using the review guidelines. Each of these papers is fundamental to understanding the state-of-the-art in one or more areas of artificial intelligence, so a solid grasp of the techniques used in each paper will help provide a foundation in modern AI.

**Papers:**

1. [Playing Atari with Deep Reinforcement Learning](#)
2. [Deep Reinforcement Learning with Double Q-Learning](#)
3. [ASK THE RIGHT QUESTIONS: ACTIVE QUESTION REFORMULATION WITH REINFORCEMENT LEARNING](#)
4. [Dissecting Contextual Word Embeddings: Architecture and Representation](#)
5. [Mastering the game of Go without human knowledge](#)

**Review Guidelines:**

1. Describe what problem or question this paper addresses, and the main contributions that it makes towards a solution or answer.
  - a. Problem/Question:
  - b. Solution/approach:
  - c. Contributions (list at least two):
2. Evaluate the paper in terms of novelty, significance, and empirical results.
3. Describe the main strengths you see in the paper.
4. Describe critiques and weaknesses you see in the paper.