

**ECE 239AS.3, Spring 2025**  
Neural Networks & Deep Learning 2  
UCLA

**Project 4: RL**  
Prof. J. Kao  
TAs: S. Dong, J. Lee, K. Pang, X. Yan

Due Friday, June 6 2025, by 11:59pm to Gradescope.  
50 points total + 5 bonus.

1. (50 points) **Car Racing Game: DQN** Complete **RL.ipynb** and along the way complete **DQN.py**, **model.py**, **replay\_buffer.py**, and **env\_wrapper.py**.
2. (5 points) **Double Inverted Pendulum: DDPG** Complete **model.py**, **DDPG.py** and **RL\_bonus.ipynb**. This part will be released on Thursday, May 22.

Please make sure to read the instructions in all files carefully before writing your code. Print out all files mentioned here and submit as one pdf on Gradescope.