

This “homework” is to give me a chance to get to meet and know you all a bit better. There is also a question where I ask you to reflect on RL and its advantages/disadvantages based on your knowledge of it so far. The homework is worth 2 bonus points.

Question 1

Record a video of yourself, say 2 minutes or so, in the format of your choice, and upload it on CarmenCanvas as part of your solution to this homework. Alternatively, you can share a link to your video on box/dropbox/etc with me.

In the video,

1. Introduce yourself, tell me about your major/field of study, and what year you are in.
2. I would love to hear about your current or past research experiences (especially if you are actively doing research as part of your graduate studies), or of any work/internship experiences you have had that you would like to share.
3. Lastly, let me know why you are taking this course, and what is it that you most expect/look forward to learning from it.

Question 2

Identify a problem in your field of research/study/interest that you might propose approaching with reinforcement learning. Identify the agent, state, action, reward, state dynamics, and policies for that problem. Based on what you know about RL so far, what are the main advantages of solving that problem using RL? What do you think could be the main challenges?

Your answer does not need to be extensive or exhaustive. I expect an answer of about 400-500 words at most.

Question 3

Which of the “advanced topics” listed in the syllabus, or other advanced topics, would you like to learn about most?