## Meeting 05/12/2020

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### Actions:

- 1) 60 steps (-0.21, -0.59)
- 2) 150 steps (0.86, -0.53)
- 3) 60 steps (-0.59, 0.67)
- 4) 70 steps (0.29, -0.59)
- 5) 40 steps (0.80, 0.18)
- 6) 60 steps (0.95, 0.93)
- 7) 50 steps (-0.59, -0.60)
- 8) ...

### Continuous Actions!

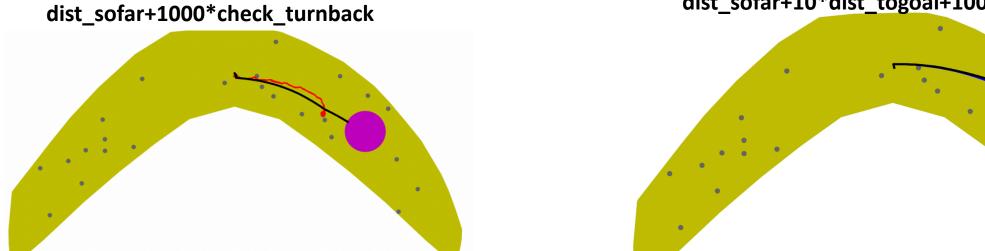
# No Suffix: Trajectory 7 Pos Space 120 Ground Truth NN Prediction start 100 90 80 70 60 50 -80 -60 -40 -20 0

### • Actions:

- 1) 20 steps (-0.62, -0.13)
- 2) 50 steps (-0.73, 0.20)
- 3) 60 steps (-0.99, -0.81)
- 4) ...

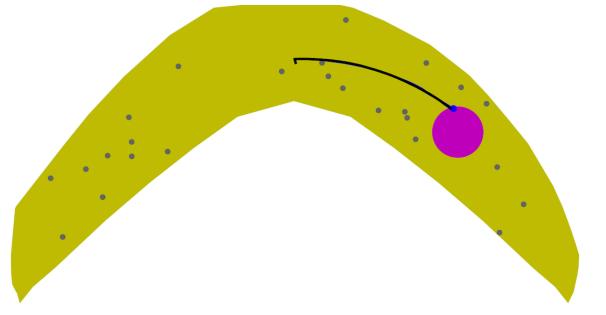
### Continuous Actions!

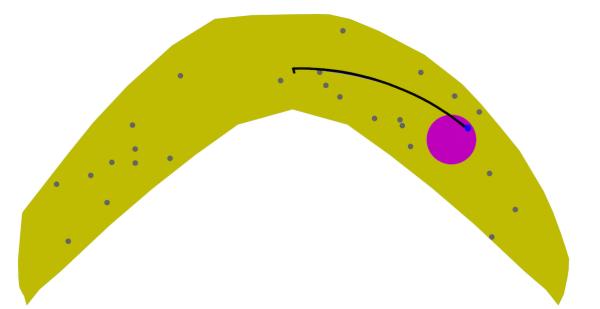
### Goal 8 Obstacle 0.75mm dist\_sofar+10\*dist\_togoal+1000\*check\_turnback



dist\_sofar+100\*check\_action+1000\*check\_turnback

dist\_sofar+10\*dist\_togoal+100\*check\_action+1000\*check\_turnback





### Discussions

- It seems that last time, model could not produce accurate prediction because my actions for planning are discrete and values, -1 or 1m are higher than the raw data
- Raw Data: (a1, a2) with a1 and a2 both continuous and within the range [-1, 1]
- My 8 actions for planning: (1,1), (1,0), (1,-1), (0,1), (0,-1), (-1,1), (-1,0), (-1,-1)

• Do we need to deal with this so that our rollout and model prediction can match each other more?