## CIS 603 – Multi-agent Systems Homework #5

Due: Wednesday, 13 Nov 2013

In this assignment, you will track the internal model and compute the behavior of Fictitious Play in self play in two different games.

With paper, pencil/pen, and a calculator, track the internal models and compute the behavior of Fictitious Play in self play for 5 rounds in the two games shown below. After completing the five rounds, make an educated guess about what solutions the algorithms will converge to.

Show your work. Note that you will need to define both players' priors. Reason about how the players' priors affect the outcome of the game.

Stag hunt

 stag
 hare

 stag
 4, 4
 -1, 3

 hare
 3, -1
 2, 2

Chicken

	swerve	straight
swerve	3, 3	1, 4
straight	4, 1	0, 0