Projects

This semester we will be be doing one independent study project dealing with the application of Probability to another subject. The purpose of this handout is for you to choose the subject for your project. You should read over this handout and decide on a project from the list below (or propose another project topic if you want). On Monday, September 18th, please bring this completed form with your choice indicated–they will be collected in class that day. If you have any questions, please let me know.

The plan for the project is that you will be given a brief summary of the subject, a list of key words for you to learn, and some problems to work. You will be responsible for finding references yourself and learning about the subject. I will be happy to give you guidance, answer questions, and generally help you out. It is fine if you want to work in groups, so you may want to consult with friends in the class in your choice of subject. But each of you will be responsible for submitting your own individual report of the results in the end.

Name:

Email address:

Please choose one of the following subjects for your project:

1. Understanding Random walks (Mathematics/probability) ____________________
2. Theory of Games (Economics) ____________________
   Need to know/learn basic about Matrices
3. Simulating processes (Computer science) ____________________
   Need to know/learn programming
4. Working with real data and/or questions (maybe .. analysing them using packages.) (Finance/Geography/Medicine/political science..) ____________________
   No prerequisites
5. Genetics (Linear Algebra/Biology) ____________________
   Need to know/learn Matrices and eigen-values

If you would like to propose another subject for your project, please indicate that here. In this case you should talk with me soon so that we can make arrangements for you to prepare a more detailed outline of your proposed project in the next couple of weeks. Please use the backside for any additional comments that you may have.

[1] **Office hours:** Monday: 2:00-3:00 pm, Tuesday: 10:30-11:30,3:30-4:30 pm