

**Statistics 5570/6570**      Spring 2014  
Discussion and 6570 Projects

<b>Discussion Dates:</b>	Apr. 7, 11 14, 18
<b>Discussion Assignment Due (by 11:59 P.M.):</b>	24 Apr. (Thu)
<b>6570 Topics Approved By Instructor:</b>	26 Mar.
<b>6570 Presentations</b>	Apr. 21, 25 (as assigned by instructor)
<b>6570 Reports Due (by 11:59 P.M.)</b>	30 Apr. (Wed)

**Discussion Project:** During the 4/7-4/18 two week period, we will be doing in-class case studies, reading papers, and discussing current statistical bioinformatics research projects. You will do one of the following:

1. Pick one discussed topic and write a 2 page summary of the in-class discussion.
2. Write a 2-3 page summary of all the discussed topics (bullet points are fine, with brief discussion).

For both options, your written summary should accurately represent a brief summary of the topic(s) discussed in class, and also report your thoughts and impressions (including ideas you have of what could be done differently [or extended to additional applications], or why certain aspects of the topic might be more important than others [or more interesting/useful to you], or other such impressions).

Your project report will be graded according to the following rubric:

Points	Component
40	Accurate representation of topic(s)
40	Thoughts and impressions
20	Organization / grammar / spelling
(0)	Timely attendance to discussions (including 6570's) (This portion of the score will range from -100 to 0)
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100	

**Participation:** You are allowed up to one absence during this two-week discussion period and the last week of 6000-level presentations. Each additional absence will reduce your score on the Discussion Project by 50 points.

**6570 Project:** Those students registered for STAT 6570 credit have the additional responsibility to give a class topic presentation. The purpose of this topic presentation is to introduce to the class a statistical bioinformatics topic not otherwise featured in the course. The presentation topic must be approved by the instructor. Possible topics include certain skipped chapters from the text, specialized Bioconductor packages, or other approved research topics (several possibilities have been mentioned in passing during the course).

The order of presentations will be decided by the instructor and posted on the course website. Students should prepare their presentation as a slide presentation and send a copy of their slides to the instructor one class day prior to their assigned class session so that slides can be made available to all students. The slides should appropriately acknowledge all sources. Students should plan on giving a 35 minute presentation in class (roughly 20-23 slides), so there will be two presentations in each class period during the final week of classes.

A written report on the topic will be submitted to the instructor. The topic report should be “stand-alone” and serve as an accessible introduction to the topic – meaning any other student in the class should be able to read and understand the report without needing additional reference materials – and include appropriate references for all sources. The report should also include necessary R code (if applicable). Any code reported in the presentation or report must be in a space-preserving font such as Courier New.s There is no fixed length for the report, but 8-10 pages would be reasonable (with any lengthy R code in an Appendix). The report should appropriately acknowledge all sources. The report must be the student’s own work, **with minimal quoting of source material**. Appropriate grammar, spelling, and organization is expected. Referencing Wikipedia will result in lost points.

The following grading rubric will be used for all 6570 projects:

Points	Component
	<u>Presentation</u>
20	Focus on statistical issues and intro. to topic
15	Organization / preparation
	<u>Report</u>
40	Focus on statistical issues and intro. to topic
20	Grammar / spelling / organization (including code)
5	References
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100	