Biostat 756 Project requirements

1. **The Biostat 756 is a term project and accounts for 50% of your grade**

2. **Groups of two students will work on a particular topic**

3. **The project is presented during one of the two days of the last week of classes The order of presentations is provided by a lottery**

4. **Prior to the first presentation the authors have to provide a document containing their research to each of the other groups.**

5. **The document is, at most, 10 pages long. It contains, at most, 7 pages of text (size 12 font, single spaced, 1 inch margins) and, at most, 3 pages of graphs, tables, bibliography, etc.**

6. **Topics of research are suggested, but most statistical research topics related to the Biostat 751-756 series are acceptable. Check with me before you start.**

7. **The evaluation of your research will be based on**
   a. **The document containing your research.**
   b. **Your presentation.**
   c. **A document containing critical refereeing of the other groups' documents and presentations (this, of course, will be kept confidential. Be aware that your criticism has to be realistic and you can say positive things about other groups' research!). The target is ½ page for each group.**
   d. **A confidential evaluation of the contribution of the other member of your group.**

Suggested topics

1. **MCMC in practice**
2. **The EM algorithm**
3. **PQL / Laplace approximation**
4. **Functional Data Analysis**
5. **Spatial smoothing**
6. **Image analysis**
7. **Data mining**
8. **Measurement error in survival analysis**
9. **Testing in GLMMs**
10. **Multilevel models**