Biostatistics Assignment: **Due Date April 16th**

Develop a publication-worthy research project using SAS for the statistical analysis. This will require finding a real data set, which is consistent with either their personal interests or academic concentration: e.g.,

Data Set Selection:

[OzDASL: Effect of Punishment Regimes on Crime Rates (statsci.org)](http://www.statsci.org/data/general/uscrime.html)

**Proposal Idea:**

Final Output:

1. Create a set of 6 slides (which will be used for a presentation). *Cover Slide not needed*
2. Provided SAS data in separate file

The Proposal Statement: (based from the data set above*) Does percentage of nonwhites in the population (continuous) and whether they live in a Southern state (binary) have an effect on the probability of imprisonment (continuous).*

* The presentation will be evaluated for background information (SAS Code should be included as part of the output)
  + Slide 1: **Introduction Slide**
* Statement of aims and objectives (motivation for the research questions),
  + Slide 2: **Objectives**
* Description of statistical methods:
  + specification of null and alternative hypotheses
  + Slides 3, 4 & 5: **Description of Null and Alternative Hypotheses**
    - Should include what SAS function was used to derive this
  + summary statistics
  + Slides3, 4 & 5: **Description of Null and Alternative Hypotheses**
    - Summary of Hypotheses
  + assumptions underlying the regression analysis
  + Slide 5: **Regression Analysis**
    - Should include what SAS function was used to derive and a summary
  + clear interpretation of the results and subsequent conclusions
  + Slide 6: **Interpretation of data and Conclusion**