COGS 138: Neural Data Science

Final Project rubric

#### Project Checklist

1. **Introduction & Background (20 points)**

* Overview (2 pts)
  + -2 pts: no answer at all
  + -1 pt: unclear / no connection to data science
* Research Question (6 pts)
  + -6 pts: no answer at all
  + -3 pts: poorly formed question / connection to data science
  + -3 pts: unclear explanation of data and variables
* Background & Prior Work (6 pts)
  + -6 pts: no answer at all
  + -4 pts: no explanation of the dataset(s) used
  + -3 pts: poor or unclear explanation of prior work
  + -2 pts: poor description of data: missing some combination of how the data was collected, features/variables included, number of observations, information in dataset
  + -2 pts: no citations at all
* Hypothesis (6 pts)
  + -6 pts: no answer at all
  + -3 pts: unclear / very poorly formed hypothesis
  + -2 pts: no rationale as to why the hypotheses were chosen

1. **Data Analysis (60 points)**

* Data Wrangling (10 pts)
  + -10 pts: no answer at all
  + -5 pts: poor / unclear explanation of the steps taken to load and wrangle the data

* Data Visualization (20 pts) (note these can be sprinkled throughout the notebook)
  + -20 pts: no data visualizations in any part of the notebook
  + -10 pts: only one visualization
  + -5 pts: only two visualizations
  + -5 pts: missing axis labels / legends
  + -5 pts: no clear description of what the plot(s) mean / are showing
  + -3 pts: poor / confusing axis labels / legends
* Data Analysis & Results (30 pts)
  + -30 pts: no answer at all
  + -6 pts: severely inappropriate / incomplete analyses
  + -5 pts: poor / confusing interpretation of analyses
  + -3 pts: mildly inappropriate / incomplete analyses

1. **Conclusion & Discussion (20 points)**
   * -20 pts: no answer at all
   * -10 pts: no discussion of limitations of analyses
   * -5 pts: poor / unclear link between the results and the initial experimental question(s)
   * -3 pts: poor / unclear discussion of limitations of analyses
   * -5 pts: no discussion of what additional experiments and data would be interesting
   * -3 pts: poor / unclear discussion of what additional experiments and data would be interesting