## PUAD 7972: Homework I

Directions: Download the following <u>file</u>. It contains data from the U.S. Circuit Courts of Appeals. In it, there are 3,363 votes cast by judges on these courts between 1936 and 2010. There are a total of nine variables—seven of which are of substantive interest. (See the codebook below.) Using these data, complete the following prompts.

- I. Estimate a logistic regression such that the ideological directionality of a judge's vote is the dependent variable. For independent variables, include the Supreme Court's ideology, whether the case is a habeas corpus petition, whether a judge was appointed by a Democrat, whether the judge is a southerner, the judge's ideology, and the issue area of the case (in dummies) such that criminal cases are the omitted category. Present the results from this regression in a table called, "Table I." Caption it appropriately. Include in this table coefficients, standard errors, changes in predicted probability, and sample size.
- 2. Assuming  $\alpha = 0.05$  (one-tailed), which variables are statistically significant? Appropriately interpret the effect these variables have on the probability a judge casts a liberal vote. Present graphs for these results in formally captioned figures and discuss what they tell us about the likelihood a judge votes in a liberal direction. Finally, which variables are not statistically significant, and what do these findings tell us about what causes judges to vote either liberally or conservatively?

Codebook: Below, please find variable operationalizations for the dataset used to complete this homework.

- jid: A unique, numeric identifier for each judge in the dataset. Note, judges may appear more than once.
- caseid: A unique, numeric identifier for each case in the dataset. Most cases are heard by panels consisting of three judges.
- libvote: A dichotomous variable taking a value of "1" if a judge's vote was cast in a liberal direction, "o" otherwise.
- scotus\_ideology: A continuous-level measure of the U.S. Supreme Court's ideology for any given year. The measure is scaled from liberal-to-conservative such that increasing values indicate increasingly conservative institutions.
- geniss: A nominal-level variable that assumes a given value based upon the issue involved in a given case.
  - o geniss = 1: Criminal cases
  - o geniss = 2: Civil rights cases
  - o geniss = 3: First Amendment cases
  - o geniss = 4: Due process cases
  - o geniss = 5: Privacy rights cases
  - o geniss = 6: Labor relations cases
  - o geniss = 7: Economic disputes or regulations cases
- habeas: A dichotomous variable taking a value of "1" if a case involves a petition for a writ of habeas corpus.
- potus\_dem: A dichotomous variable taking a value of "1" if a judge was appointed by a Democratic president and a value of "0" if they were appointed by a Republican.
- south: A dichotomous variable taking a value of "1" if a judge is a southerner, "0" otherwise, where southerners are defined as those born in one of the II states that seceded during the Civil War.
- ideology: A continuous-level measure of a judge's ideology for his or her career. The measure is scaled from liberal-to-conservative such that increasing values indicate increasingly conservative individuals.