

22 February 2017

## 1 Overview

The main tasks I set out to accomplish over week as per our last meeting were as follows:

- Continue showing differences between the lm/OLS and the bias-reduced logit/brglm sorting algorithms
- Explore the trade off of coefficients between party and ideology in the vote sorting algorithm

Craig had previously expressed concerns with the sorting of votes on two fronts; the first being that the algorithm using the bias-reduced logistic equation for sorting votes was largely not sorting close votes as party votes and the second that it could mean very different things to have a vote sorted as a party vote when the equation has opposite signs on the coefficients for party and ideology than when these are the same. On the latter category, William hypothesized that