

# Trump's Ahoy!

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## 0.1 Introduction

In the aftermath of the 2016 U.S. presidential election, people the world over presented theories attempting to explain the outcome (Krieg 2016). Among the most prominent explanations are socioeconomic status (Manza and Crowley 2017) and attitudes towards immigration (Moody 2017). Following a short series of tests, our team reports attitudes towards immigration as a stronger predictor of voting for Trump than socioeconomic status.

## 0.2 Data

Our outcome is a binary indicator of whether respondents from the 2016 American National Election Survey (ANES) ("American National Election Survey 2016," n.d.) voted for Trump. We proxied socioeconomic status as highest educational attainment. Higher levels of education are frequently linked to better economic and social outcomes (Association and others 2007). Immigration attitudes are proxied by respondent attitudes toward government policy on undocumented immigration. We additionally controlled for whether respondents were white or self-reported as Republican because these variables are not uniformly distributed across those with varying attitudes about immigration and with dissimilar levels of education. There are 660 observations.

Socioeconomic status, proxied by highest level of educational attainment, is divided into four distinct categories: those with graduate or professional degrees, only bachelor's degrees, a high school diploma and some college, and less than a high school diploma. These categories follow the logic that increased education is highly correlated with wages and standard of living, variables also associated with socioeconomic status. We proxy immigration attitudes with respondents' reported feelings toward government policy toward undocumented immigration and use a binary indicator for whether a respondent thinks undocumented immigrants should be allowed to remain in the country.

## 0.3 Analysis

We adopt a Bayesian approach to inference, beginning by estimating a Bayesian logit model with uninformative priors to determine the estimated effect of covariates on the likelihood that a respondent said that they intended to vote for Trump pre-election. We then used estimates from this model as priors for a second Bayesian logit model where we predict whether respondents reported voting for Trump post-election.

*Two citations that Miles recommended for this section - (Gelman and Hill 2007) and (Lynch 2007) - not sure where to put them, though*

## 0.4 Results

Figure 1 shows point estimates of posterior distributions for each of the Bayesian logit model parameters. 95 percent Bayesian credible intervals are shown. The point estimates are -1.442 for attitudes towards immigration and -0.496 for education. The credible intervals for these two variables are (-1.861, -0.946) and (-0.838, -0.174) respectively.

The analyses show attitudes toward undocumented immigrants better predict the likelihood a respondent voted for Trump, controlling for race and self-reported party identification. Both education and

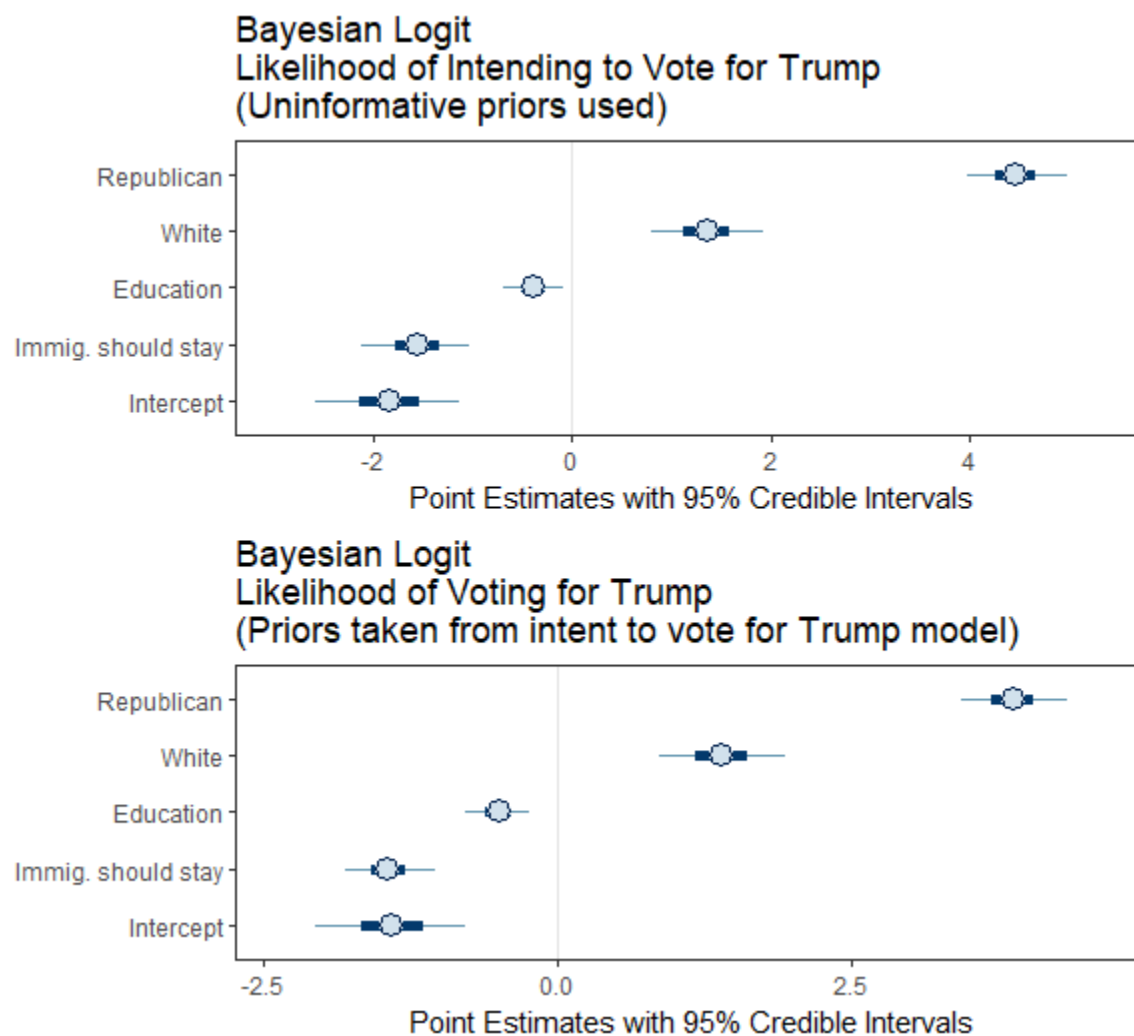


Figure 1: Estimates and Credible Intervals of A Bayesian Logit Model

attitudes toward immigration were significant predictors, however immigration attitudes are greater in magnitude.

## References

"American National Election Survey 2016." n.d. ANES. [http://www.electionstudies.org/studypages/anes\\_timeseries\\_2016/anes\\_timeseries\\_2016.htm](http://www.electionstudies.org/studypages/anes_timeseries_2016/anes_timeseries_2016.htm).

Association, American Psychological, and others. 2007. "Task Force on Socioeconomic Status.(2007)." *Report of the APA Task Force on Socioeconomic Status*, 1.

Gelman, Andrew, and Jennifer Hill. 2007. *Data Analysis Using Regression and Multilevelhierarchical Models*. Vol. 1. Cambridge University Press New York, NY, USA.

Krieg, Gregory. 2016. "How Did Trump Win? Here Are 24 Theories." CNN.

Lynch, Scott M. 2007. *Introduction to Applied Bayesian Statistics and Estimation for Social Scientists*. Springer Science & Business Media.

Manza, Jeff, and Ned Crowley. 2017. "Working Class Hero? Interrogating the Social Bases of the Rise of Donald Trump." In *The Forum*, 15:3–28. 1. De Gruyter.

Moody, Kim. 2017. "Who Put Trump in the White House?" *Against the Current* 31 (6). Against the Current: 11.