

# Homework #4

POSC 3410 - Quantitative Methods in Political Science

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This homework assignment will refer to the `1-wvs-trumpism.R` script I wrote and made available on my GitHub page.<sup>1</sup> The exercises here draw from a blog post I wrote over the summer of 2016 that analyzes the behavioral foundations of “Trumpism” using four waves of World Values Survey data.<sup>2</sup> Do read that post and the footnotes in it to get a sense of the data since the following exercises will be simple replications of the analyses I report there. Answer the following questions in two to three *complete* sentences, unless otherwise noted.

1. Run Model 1 (M1), which is a simpler generalized linear model of the first model I report in the first regression table in that blog post. This model uses four waves of survey data from 1995 to 2011. *Substantively* explain these results to me in five-to-seven complete sentences.
2. Run Model 2 (M2). This resembles the model you ran above (and the second model I show in the first regression table in that blog post), but it subsets the data to just 2011. What do you see and what’s different in terms of statistical significance? *Substantively* explain these results to me in five-to-seven complete sentences.
3. Do note the interaction in the previous two models. What does the interactive term capture? What about the constituent terms of high school education or less and self-identification with the Republican party?
4. What are `z_age` and `I(z_age^2)` doing in these two statistical models? How would you interpret these results?
5. Run Model 3 (M3), which resembles the first model of the second regression table from the blog post. *Substantively* explain these results to me in five-to-seven complete sentences.

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<sup>1</sup><https://github.com/svmiller/posc3410/blob/master/homeworks/hw4/1-wvs-trumpism.R>

<sup>2</sup><http://svmillier.com/blog/2016/05/america-strong-leaders-world-values-survey-trump/>