

PUAD 7972: Homework 3

The Cooperative Congressional Election Study (CCES) is an annual survey that samples over 50,000 Americans. You can access the 2018 iteration of the CCES [here](#). You can find the codebook for this survey [here](#). Using these files, please complete the following prompts using a decision rule of $\alpha = 0.01$ (one-tailed). Don't forget to attach the commands you used to the end of your assignment. Homeworks are due by March 22, 2020 (11:59:59 pm).

1. Create a dependent variable that takes the value of “1” if a respondent reports they are married or in a domestic/civil partnership, a “2” if they are separated/divorced, a “3” if they are widowed, and a “4” if they have never been married.
2. Choose five covariates that you think are reasonably related to an individual's marital status.
3. In a table called, “Table 1: [Caption goes here],” present descriptive statistics for each of your six variables. Textually explain each variable's central tendency and dispersion.
4. Provide hypotheses for each independent variable's effect upon the dependent variable.
5. Estimate a multinomial logit regression. If you need to include clustered standard errors, fixed effects, hierarchical coefficients, etc., then explain why and how you're doing this. If not, explain that too.
6. Present the results of the multinomial regression in a table called “Table 2: [Caption goes here].” In it, provide coefficients, standard errors, and any other information needed to interpret the results.
7. Appropriately interpret statistically significant results both textually and graphically.
8. Assess goodness of fit appropriately. How well are the independent variables explaining outcomes in the dependent variable? Is model specification a problem?
9. Now choose a sixth independent variable you believe is not only reasonably related to outcomes in the dependent variable but also is conditioned by one or more independent variables. State a hypothesis for the independent variable and as many hypotheses are needed for your hypothesized interaction effects.
10. Estimate a new multinomial logit, and present these results in a table called “Table 3: [Caption goes here].” Interpret the results of the new model appropriately (textually and/or graphically). How does model fit compare to the model presented in Table 2? Does the addition of the new covariates statistically improve model fit?