Assignment 2

Data Management Spring/Summer 2018
OSIPP, Osaka University

1 Task

Using the Todai-Asahi panel data, conduct the following exercises.

2 Exercises

1. Drop RESPONSE == 9 and PREFEC $>$ 47 (which effectively removes the PR candidates). Also, drop wave 1 in the 2003 data, (i.e., the data included in "2003ates1v1.csv").

2. Make a summary table using the following variables, and save it as a tex file.

    - ELECYEAR, PREFEC, DISTRICT, INCUMB, TERM, SEX, AGE, RESULT

3. Count the frequency of candidates for each party. Which political party has the largest number of candidates in the data?

4. Make a bar graph of the exercise 3. Sort bars in descending order. Add a title "Political candidates". Save the graph as a png file.

5. Repeat the same exercises as 3 & 4, but by restricting the sample to those who won the election. For the bar graph, add a title "Politicians."

6. Repeat the same exercises as 3 & 4, but by distinguishing males and females for each party (you have to put both bar graphs in the same figure). Which party has the largest female candidates in the data?

7. Compute the average level of *not* supporting fiscal policies for fiscal consolidation using yn_fiscalpol (note that the variable takes larger values as individuals get not supporting it) for each TERM, and plot it as a bar graph. What tendency do you observe here? What do you think would be the endogeneity issue (i.e., the correlation between yn_fiscalpol and TERM is not necessarily causal) here? Discuss.

8. Regress yn_fiscalpol on TERM (Model 1). Next, regress the same model but with SEX, AGE, and INCUMBENT as additional controls (Model 2). Add individual and election year fixed effect to Model 1 (Model 3). Add AGE and INCUMBENT to Model 3 (Model 4). Finally, save the table as a tex file.

- Why can you not include SEX in Model 4?

- What do you find by comparing the results in Model 2 and Model 3? Discuss the possible reason why you got a different result in Model 3.

- Can you instead say something about the effect of INCUMBENT on yn_fiscalpol? Discuss.

3 Instruction

- Use either Python or R for coding.
- Write the entire code in a single Jupyter notebook/Python/R script.
- The code should import the panel data from "input" and export tables and figures to "output."
  - Use either your code or mine in Assignment 1 to produce the panel data as the input for this assignment.
- Write your answers in the notebook/script as well.
- If you prefer, you can also work in team (max 4 people). In that case, write the name of your co-authors in the email and include them in CC. Grading does not depend on whether you work in team or alone.

4 Deadline

Send your notebook/script AND your panal data to my email address by July 19, 2018.[1]

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