Readme: Programs for "Advisor Value-Added and Student Outcomes: Evidence from Randomly Assigned College Advisors"

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AEA Data Repository and Code Project ID: openicpsr-142321

This paper uses confidential data acquired directly from the registrar's office and financial aid office at the American University of Beirut. Per the data agreement with IRB and the American University of Beirut (source of the data), the authors are prohibited from posting or distributing the student-level data used in this project.

The data can be obtained by contacting the registrar's office at the American University of Beirut (contact Mr. Zaher Bu Daher at zb09@aub.edu.lb). The authors are willing to provide guidance on how to acquire it (Serena Canaan: sc24@aub.edu.lb or Pierre Mouganie: pm10@aub.edu.lb). The authors are also willing to share the data (for replication purposes) if replicating author(s) acquire consent from the American University of Beirut directly.

Software Requirements

- Stata code was last run with version 14:
  Replicating the results require use of the following additional ado files:
  - vam.ado available on ssc.
  - reghdfe available on ssc.
  - ftools available on ssc.
  - mipolate available on ssc.
  - coefplot available on ssc.
  - distinct available on ssc.
  - lincomest available on ssc.
  - lprobust.ado available from https://nppackages.github.io/nprobust/

- R (R version 4.0.5)
  Requires the readstata13 and lme4 libraries.

Time Requirements

A full replication can be achieved in under 2 hours with a standard computer.

Project directory structure

The project directory includes the following:

- "Data_Main.dta": The main data file for this project, this data is not publicly available. Contains detailed student-level longitudinal information on course grades, credits accumulated, sex, semester GPA, class-year (Freshman, Sophomore, etc...) as well as major during every semester enrolled at university. These data also contain information on each student's academic advisor including gender, faculty rank and department. Verbal and Math SAT scores, year of birth, high school location as well as legacy status.
- "Create Grade VA.do": Used to create VA measures for freshman sample.
- "Create Sophomore Grade VA.do": Used to create VA measures for sophomore sample.
- "Figure 1 and 2.do": Used to clean data then generate Figures 1 and 2 in the paper.
- "Table 1.do", "Table 2.do", "Table 3.do", "Table 4.do", "Table 5.do", "Table 6.do", "Table 7.do", "Table 8.do", "Table 9.do": Used to clean data then compute estimates contained in the main text tables.
- Appendix Code: This folder contains the Stata and R code required to obtain the appendix figures and the estimates from the appendix tables.

We next lay out the sequence in which programs should be run.

Instructions for Replicating Table Estimates and Figures in Main Text

1. Set Directory to folder containing Data_Main.dta and install required ado files using prog-install.do.
2. Run "Create Grade VA.do" and "Create Sophomore Grade VA.do"
3. Run "Figure 1 and 2.do" to generate the graphs from Figure 1 and Figure 2 in the main text.
4. Run "Figure 3.do" to generate the graphs from Figure 3 in the main text.
5. Run "Table 1.do" to obtain the estimates in Table 1.
6. Run "Table 2.do" to obtain the estimates in Table 2.
7. Run "Table 3.do" to obtain the estimates in Table 3.
8. Run "Table 4.do" to obtain the estimates in Table 4. For the Kolmogorov-Smirnov and Chi-Squared test the program will give a set of 13 p-values per test and column. To determine the number of tests failed one needs to compare these p-values to 0.05.
9. Run "Table 5.do" to obtain the estimates in Table 5.
10. Run "Table 6.do" to obtain the estimates in Table 6.
11. Run "Table 7.do" to obtain the estimates in Table 7.
12. Run "Table 8.do" to obtain the estimates in Table 8.
13. Run "Table 9.do" to obtain the estimates in Table 9.

Instructions for Replicating Appendix Table Estimates and Appendix Figures

1. Set Directory to folder containing Data_Main.dta and install required ado files using prog-install.do.
2. Run “Create Grade VA.do” and “Create Sophomore Grade VA.do”
3. Run “Figure A1.do” to generate the graph from Figure A1.
4. Run “Figures A2 and A3.do” to generate the graphs from Figure A2 and A3.
5. Run “Figure A4.do” to generate the graphs from Figure A4.
6. Run “Table A4.do” to obtain the estimates in Table A4.
7. Run “Table A5.do” to obtain the estimates in Table A5.
8. Run “Table A6.do” to obtain the estimates in Table A6.
9. Run “Table A7.do” to obtain the estimates in Table A7.
10. Run “Table A8.do” to obtain the estimates in Table A8.
11. Run “Prepare for R.do” in Stata then run “Table A9.R” to obtain the estimates in Table A9, make sure to set the directory in R to be the same as the one set for Stata.
12. Run “Table A10.do” to obtain the estimates in Table A10.
13. Run “Table A11.do” to obtain the estimates in Table A11.
14. Run “Table A12.do” to obtain the estimates in Table A12.
15. Run “Table A13.do” to obtain the estimates in Table A13.
16. Run “Table A14.do” to obtain the estimates in Table A14.
17. Run “Table A15.do” to obtain the estimates in Table A15.
18. Run “Table A16.do” to obtain the estimates in Table A16.
19. Run “Table A17.do” to obtain the estimates in Table A17.
20. Run “Table A18.do” to obtain the estimates in Table A18.
21. Run “Table A19.do” to obtain the estimates in Table A19.