Lab 1

- Due Oct 7, 2024 by 11:59pm
- Points 100
- Submitting a website url or a file upload
- Available Sep 4, 2024 at 12am - Oct 9, 2024 at 11:59pm

This assignment was locked Oct 9, 2024 at 11:59pm.

Lab #1: 5016

Choose 1 of these assignments:

1. Conduct a trend analysis of some variable of interest. Graph it and try different functional forms. Look for subgroup variation across time, too. Extra credit if you consider other variables as a means of explaining the trend. Explain all of your results.

2. Conduct an unpooled regression comparison across time-periods. Compare at least two time periods, running regressions on each and comparing coefficients. Explain your results.

3. Conduct an age-period-cohort analysis. Make plots of the different dimensions. Develop a parsimonious model of what you think is going on. Explain your results.

4. Conduct a difference-in-difference analysis. Explain which group is treated and which is not. Provide pre-treatment trends and generate a regression summarizing your results. Explain what you found.

Rubric 1

Criteria	Ratings		Pts
Student picks some variables of interest.	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Student explains what variables they picked.	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Trend: Student graphs the variable across time // Unpooled: Student runs regression for one time period // DiD: Student explains which group is treated // APC: Student makes plots of various APC dimensions	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Trend: Student runs a regression // Unpooled: Student runs regression for another time period // DiD: Student explains which group is the untreated // APC: Student makes additional plots of remaining APC dimensions	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Trend: Student explains the regression // Unpooled: Student interprets at least some of the coefficients // DiD: Student provides analysis and plot of pretreatment trends // APC: Student runs a parsimonious regression of age period cohort variables	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Trend: Student tries one other functional form (e.g., quadratic, dummies) // Unpooled: Student formally compares coefficients between time periods // DiD: Student generates a regression summarizing their results // APC: Student interprets the results of the regression	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Trend: Student explains the result of the functional form and/or subgroup analysis // Unpooled: Student explains their results // DiD: Student interprets their results // APC: Student explains why their parsimonious model makes sense	**7.14 pts** **Full Marks**	**0 pts** **No Marks**	7.14 pts
Overall, the quality of the student's report was well-done, without issues, followed the directions and reflects time, effort and thought.	**50 to >0.0 pts** **Full Marks**	**0 pts** **No Marks**	50 pts

Total Points: 99.98