**ECO465 BASIC ECONOMETRICS**

**FALL 2022**

This is your final assignment for the course. Please note the following.

1. Use data file labeled as your ID to do the assignment.
2. Download the file
3. Use do file in stata to run your program in STATA
4. Submit the results explaining the results in a word file and capture stata results in word file.
5. Submission date is **5 January 2022**
6. Select from the data a Y-variable and relevant X variables (you need to justify your model using appropriate references.
7. Run OLS first and ensure that you are done with your OLS model in terms of selecting the correct function and the variables. (justify them)
8. Your data link is here

<https://drive.google.com/drive/folders/1ab8wEyzvf4FkKvNrdinT7rKfb3gMvkiT?usp=sharing>

1. Upload your final files as 1) word file (75%), 2) do file (20%) and 3) data file (5%)

After this do the following TESTS, **Stata Assignments**

1. **Heteroskedasticity test**

**Assignment 1**- Use the **graphical method** to test the presence of heteroskedasticity in your data

**Assignment 2-** Using **park test** to see the presence of heteroskedasticity

**Assignment 3-** Use **Glejser Test** to test the presence of heteroskedasticity in your data. **Assignment 4-** Use **Gold-feld Quandt test** to check the presence of heteroskedasticity

**Assignment 5-** Use **Breush-Pagan Test** to check whether there is heteroskedasticity or not in your data.

**Assignment 6-** Use **white’s general heteroscedasticity test** to check whether there is heteroskedasticity or not in your data.

1. **Detecting Autocorrelation or serial correlation**

**Assignment 7-**  Use the **graphical method** to test the presence of Autocorrelation in your data

**Assignment 8-** Use the **Runs test** to detect the presence of autocorrelation.

**Assignment 9-** Use **Durbin-watson d test** to detect the presence of autocorrelation.

**Assignment 10**- Use **Bruech-Godfrey test** to check the presence of autocorrelation.