Lab #1

- Due Mar 1 by 11:59pm
- Points 100
- Submitting a website url or a file upload
- Available Jan 25, 2023 at 12am - Mar 4 at 11:59pm

This assignment was locked Mar 4 at 11:59pm.
Lab #1

Choose one (1) of these 4 choices:
1. Run a multiple multinomial logistic regression. The outcome can be truly unordered or simply ordinal. Tell me how you think your independent variables will be related to your dependent variable. Interpret your results. Compare coefficients on your X variable of interest (not all of them) across different cuts of the multinomial outcomes, as we did in class (i.e., the Z test). For extra credit, generate some predicted probabilities. Tell me what you learned about your hypothesized relationship(s) from this exercise.

2. Run a multiple Poisson regression. Illustrate that a Poisson regression (or negative binomial, or zero-inflated negative binomial) is the appropriate model to use on your dependent variable. Tell me how you think your independent variables will be related to your dependent variable and why. Interpret your results. For extra credit, generate some predicted values. Tell me what you learned about your hypothesized relationship(s) from this exercise.

3. Run a Gamma regression. Illustrate that a Gamma regression is the appropriate model to use on your dependent variable. Tell me how you think your independent variables will be related to your dependent variable and why. Interpret your results. For extra credit, generate some predicted values. Tell me what you learned about your hypothesized relationship(s) from this exercise.

4. Run a Tobit regression. Illustrate that a Tobit regression is the appropriate model to use on your dependent variable. Tell me how you think your independent variables will be related to your dependent variable and why. Interpret your results. For extra credit, generate some predicted values. Tell me what you learned about your hypothesized relationship(s) from this exercise.

Lab 1

Criteria	Ratings		Pts
Student runs a multiple Poisson regression. // Student runs a multiple multinomial logistic regression. // Student runs a multiple Gamma regression. // Student runs a multiple Tobit regression.	**15 pts Full Marks**	**0 pts No Marks**	15 pts
Student illustrates that a Poisson regression (or negative binomial, or zero-inflated negative binomial) – or multinomial, Gamma, Tobit – is the appropriate model to use on your dependent variable.	**15 pts Full Marks**	**0 pts No Marks**	15 pts
Student tells me how they think their independent variables will be related to their dependent variable and why.	**15 pts Full Marks**	**0 pts No Marks**	15 pts
Student interprets their results.	**15 pts Full Marks**	**0 pts No Marks**	15 pts
Student tells me what they learned about their hypothesized relationship(s) from this exercise.	**15 pts Full Marks**	**0 pts No Marks**	15 pts
Overall, the student presents a clear and well-organized lab report, with things overall having very few, if any, mistakes.	**25 pts Full Marks**	**0 pts No Marks**	25 pts
			Total Points: 100