

Final Paper Project Expectation

AECN 396/896-002

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Introduction (3 points)

- clear identification of what you are trying to find out (research question) [1.5 points]
- why the research question is worthwhile answering [1.5 points]

Data description and exploration (7 points)

- the nature of the data with summary statistics table [2 point]
- visualize a few key variables in a **meaningful** way [5 points]

Important

Do not just present summary statistics and graphs. Discuss what you get out of them. Without any such discussions, you will get 0.

Econometric methods (35 points)

The [process and thought history](#) of how you end up with the final econometric models and methods.

Results, Discussions, and Conclusions (5 points)

- interpret and describe the results [3 points]
- conclusions [2 points]

Details on the Econometric Method Section

Data generating process

- What variables are involved in explaining the dependent variable?
 - List all the variables both observed and **unobserved** .
- How are they related with each other?
 - Multicollinearity?
- What would be the appropriate functional form?
 - Non-linear impact (e.g., quadratic, log)?
 - Interactions terms?
 - Structural difference?

Details on the Econometric Method Section

Endogeneity and Econometric Methods

- Extensive discussions on why you may have endogeneity problems. What are the sources?
 - Omitted variable?
 - Selection bias?
 - Reverse causality?
 - Measurement errors?
- Hypothetical discussion of what econometric methods you can use to deal with the endogeneity problem
 - Randomization of the variable of interest?
 - Panel data approach?
 - Instrumental variable approach?
 - Difference in difference?
- Detailed descriptions of what you end up doing (explain the process)
 - Why do you think your approach address the endogeneity problem you identified above or not? (**It is not at all a problem that you cannot solve the endogeneity problem entirely**)
- Use the appropriate standard error estimation approach (heterogeneity, clustered error, etc)

Key to writing a successful paper (high grade)

- Justify and explain **everything** you did in the paper!!
 - I tested the joint statistical significance of these interactions terms because ...
- **Re-emphasized:** I do not care about your results. What I care is the **process** !!