**Deliverable 2: Proposals with summary statistics**

Due by Friday, March 25th at 11:59pm

Submit a knitted R Markdown file with 6 sections (including output, and where applicable):

1. **State research question(s)**
2. **Motivation**
    - What do you hope to learn from the proposed analysis? What are the policy implications? What policy context should we know?
    - Are the (potential) mechanisms linking your policy variable(s) of interest and outcomes clear to the reader?
3. **Data**
    - Describe your data sources, how was your data generated, the unit of observation and population represented by your sample(s).
    - Describe how you will measure key variables (outcomes, policy/treatment variables) and any control variables that may be important to account for (explain why).
4. **Preliminary exploratory analysis**
    - Show descriptive stats to summarize the distribution of these variables (using charts and/or tables), e.g. describe variation over time and/or between relevant groups.
    - Will you be analyzing panel or cross-sectional data? Describe the sample variation in your key explanatory and dependent variables. For example: "with our tract-month panel we can analyze variation within zipcodes over time in the shutoff rate and its relationship to the hospitalization rate" – and show/interpret that sample variation using statistics, tables, and/or charts.
5. **Empirical strategy**
    - Carefully describe the analysis you plan to do. Think about research design and the policy variation you'll investigate in your regressions.
    - Outline key steps to prepare the data for analysis (data cleaning, recoding, merging, appending, aggregation, etc.).
    - Highlight key issues or limitations you need to address – be specific about how you plan to solve programming obstacles or fill critical data gaps!
6. **Appendix**
    - Include your coding work to-date for importing, cleaning, recoding, restructuring and joining input data sources.

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**Tips**:

- use code chunks to generate and present summary statistics
- don't clutter your write-up w/code (you can include more in an Appendix)