**Notes for Meeting**

**Time:** 2021.03.18 7:00-8:00 PM

**Participants:**

Min Lin: blue Brisilda Ndreka: yellow Chrstine: red

**Main Topics:**

**1.Set a standard for data comparability:**

See the priority 3 for data cleaning for Year 1995-1998. Create a new column state to uniquely determine each state. Keep NA for states only have “State Total”

**2. Rely on the fully estimation data, basing on the agency. Analysis only on “\_est” dataset**

**3.** [**https://minlin.shinyapps.io/FBICrimebyState/**](https://minlin.shinyapps.io/FBICrimebyState/) **R shiny**

Data visualization: analyzing on historical data

Predicted model: time is random, linear mixed model

For one state, years closed each other are easy influence. For adjacent states, crime numbers affects each other.

Thus, set time and space as random coefficients in linear mixed model. (study relationships and effects to the whole model)

Visualization to present for this problem: e.g. Heat map, spacial map

**4.Merge all years**

Different information contains: extract(year= , state= ) where state support partially matching

subtotal(by=…) obtain the subtotals

**5. Question to discuss further: Rape and Assault trend changes after definition of Rape(2014)**

Inference on whether the definition of Rape changing influence the trend of Rape and assault

**To do next and assign the text:**

**High Priority:**

1. Checking data as well as footnotes for two other, finding how data differ within years;
2. Make visualization within one year, be creative(ggplot), 3 interesting plots
3. Making the data cleaning for 1995-1998 all the data
4. Overview

**Medium Priority:**

1. Merge all the data