**Notes for Meeting**

**Time:** 2021.04.08 7:00-9:00 PM

**Participants:**

Min Lin: blue Brisilda Ndreka: yellow Chrstine: red

**Main Topics:**

1.Data report:

spaghetti plot (specified, adjust the range of y-axis, point out states that are special)

map plot(2019 heatmap, no interactive: to find states close to each other influence, define states)

descriptive analysis(add frequency bar plot of rate)

2.R Shiny app:

Go through Comments from Bar about R shiny:

Easier interface(wrap all of the stuffs together; Deploy R shiny in the cloud; Allow users to export table from R shiny directly--Maybe add a button; allow csv and excel two types, The button should trigger the file explorer for users to choose where the table should be downloaded to and to set the file name)

Clearer title for each plot, use full name or understandable names for variables

Time zones might not be good classifier, choose region(seven) for bubble plot

Bubble plot: size—use GDP

Two significance digits are sufficient; no more

For the report: how to present the interactive plots on the print version?

Reference:

1.BEA for GDP data find(Year 2005-2019)

<https://apps.bea.gov/iTable/iTable.cfm?7001=1200&7002=1&7003=200&7004=sic&7005=1&7006=xx&7007=-1&7035=-1&7036=-1&7090=70&7093=levels&isuri=1&reqid=70&step=10#reqid=70&step=10&isuri=1&7003=200&7035=-1&7004=naics&7005=1&7006=xx&7036=-1&7001=1200&7002=1&7090=70&7007=-1&7093=levels>

2. Grey Relational Analysis with Analytic Hierarchy Process-entropy methods（additional for Crime type weights in bubble plot）