Comparing Median Income for Different Genders

For the last 2 data visualization, we looked at some important factors which might influenced the unemployment rate and whether it would specifically have a larger influence in the Covid year, which was 2020, to examine the unemployment rate fluctuation in economic recession like the Covid. Starting from this visualization, we would focus on the labor statistics on women and gender-related inequality.

In this data visualization, we wanted to have a look at the inequality between men and women in the 2020 in their incomes, which is one of the most important outcomes of working and getting employed. We would use the median income for female and male as the key variables that we are going to visualize in 2020 ACS, according to the SDOH database. And we also want to see the different situations in different regions, so we would also include the Census Region, Northeast, Midwest, South, West, as another important variable.

1. <u>Distribution of Median Income for Men and Women at Different Census Region</u>

The first graph is going to show the readers the distribution density of the median income for men and women among different counties in the 4 different census regions. It would allow the readers to see within one certain region, what is the distribution of county-level income for men and women, and what is the difference among 2 different distributions, one for men and one for women. It would also show the different among difference places in US, whether certain region has more serious uneven income for men and women or the situation for all census regions are similar.