Policy & weather influences on mobility during the early US Covid-19 pandemic

* Human behavior does vary with temp, does not seem to increase rate of encounters between ppl
* Influence of national vs state stay at home orders. Blanket orders were more effective. Beginning of the pandemic saw the most limitation in mobility
* Mobility was avg distance travelled and encounter rates
* “while a parabolic fit could, in principle, capture a threshold above which temperature is hot enough to suppress outdoor activity, in practice, no region had a temperature range large enough to reliably estimate this threshold (36).” But they go on to say that at the county level you can see this happen in certain regions
* Human behavior was in fact still influenced by weather – but not so much so that it increased incounters with others

Where does mine fit in?

* No need to say that policy is a large driver of mobility. Policy is defo one of the main drivers of behavior change. Variations between states are less relevant than national policy
* Bay Area – precip not needed due to the climate. Running this in for example NYC metropolitan area would see precip more of an influence in summer
  + Point here is that locality/climate regions matter when trying to identify how ppl interact with/respond to climate weather

What have I done?

* Bay Area Specific (should I do a few different metropolitan areas?)
* Shown how mobility changed over the course of early pandemic (split by income)
* Created mobility metric (based on visitation)
* Relationship between temp and mobility pre-covid
* Relationship between temp and mobility post-covid
* Included binned regression to understand the shape of the curve
* High resolution, local analysis

What needs to be done?

* High level separation between residential and non-res visits
* Interaction variable with the type of neighborhood being visited