\*Literature-goal is to cluster/organize all Coronavirus literature, will meet with students next week, still brainstorming

-Maybe do more “vanilla” things first, like unsupervised NMF, basic clustering-Maybe a fancy end goal — create a tree structure with hierarchical topics for people to navigate through. Maybe even a GUI?\*Twitter - looking at twitter dataset of tweets over a period of time, goal is to be able to track trends of hot topics

-one issue: not everyone has access to the data

-statistics/vs tweets

-investigating topics that are and are not being retweeted. how to incorporate tensors? To do dynamic topic modeling? Can we work on sentiment analysis from this data?

-Another issue is how to choose the dimension of the tensor since the number of tweets in each time step will vary. Some options: use statistics instead of individual tweets, or use topic representations instead

-Also including geotags? To track where these topics are occurring?

-Maybe create the tensor in such a way that you group by location which alleviates the issue of differing number of tweets per time

-Find the data set that represent

\*Lung X-ray group: goal is to be able to predict covid versus bacterial versus viral versus healthy based on lung x-ray images

-Using NMF and NN combo approaches

-meeting with radiologists to get more detailed data as well

-an important question from the x-rays is do we need to intubate within the next 24 hours etc