To Do List

* Literature review document with paper summaries
* Research how to calculate “expected” disease incidence rates
* Analyze the data from the TCR through the data tables & definitions files
* Read dashboard and R shiny chapters of *Geospatial Health Data*
* Research on R shiny/ visualizations/ dashboards for COVID-19
* Tutorial on R shiny dashboard
* Research poisson/ other modeling of disease rates
* Read spatiotemporal analysis chapters of *Geospatial Health Data* for analysis plan ideas
* Create an analysis plan/ general overview for analyzing the data

*Completed by 6/26/20*

* Learn how to calculate age-adjusted rates
* Analysis literature review
* Extracted data & incidence/ summary statistics from SEER\*Stat TCR cancer data
* Analysis plan ideas
* Read & created R code for chapter 7 of *Geospatial Health Data*
* Read & created R code for chapter 6 of *Geospatial Health Data*

*Completed by 6/19/20*

* Studied & played around with R-INLA
* Significant portion of literature review
* Preliminary analysis ideas
* Learned SEER\*Stat software
* Further investigated histologic types of lung cancer and Texas data regarding it
* Learned about spatial span statistics

*Completed by 6/12/20*

* Start analysis plan & write down preliminary ideas
* Significant portion of literature review
* Tutorial for creating R-Shiny apps on R Studio website
* Collect COVID-19 data from Texas DSHS
* Set up GitHub

*Completed by 6/5/20*

* Complete project plan
* Collect cancer data from CDC and TCR
* Read section 1 (Geospatial health data and INLA) of *Geospatial Health Data*
* Read chapter 7 (spatiotemporal modeling of areal data. Lung cancer in Ohio) of *Geospatial Health Data*
* Further research INLA and R package
* Practice using CRS’s and spatial data