The demo code contains three parts.

1. Exploratory data analysis (EDA) and visualization are given in demo\_code\_EDA.R
2. Demo code of the county-level analysis using the SIRDC model and robust estimation analysis is given in County\_level\_analysis.R
3. Code in part 1 and part 2 load functions and some csv files given in the folder name “data\_and\_functions”

References:

1. Li, H. and Gu, M. (2020). [Robust estimation of SARS-CoV-2 epidemic at US counties](https://arxiv.org/pdf/2010.11514.pdf). arXiv preprint arXiv:2010.11514.
2. COVID-19 dashboard: <https://covid19-study.pstat.ucsb.edu/>

If you cannot install the ubanmapr in R studio, try to install devtools and install urbnmapr by Github using the following code:

install.packages("devtools")

devtools::install\_github("UrbanInstitute/urbnmapr")

See more info. <https://github.com/UrbanInstitute/urbnmapr>