All the data used to derive the results in this paper are available from this Github repository (url: github.com/luyuliu/COVID19-Transit-Demand-Impact). These data includes: 1) all transit demand data (daily and hourly) files from Transit app website, 2) all ACS data collected for the correlation and regression analyses, 3) Google search Trend index data, 4) county-level COVID-19 confirmed (csv), 5) actual ridership data collected from local news and websites and the url of the corresponding sources, 6) the date of declaring emergency for each state, 7) aggregated data for regression and correlation analyses. The repository will be available only after acceptance of the manuscript for publication so that we can ensure their inclusion before publication.