

# RESEARCH PROPOSAL

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## **Research Question:**

Has there been a significant change in flu rates this year correlated to lockdown dates by state?

## **Required tests:**

- Simple regression test
  - To prove that there is a relationship between the flu and lockdown
- Paired T-test
  - Comparing past population with current population
  - Testing for whether there is a significant difference in the number of influenza cases per state

## **Data Visualization:**

- Overlap mean data for each year per week

## **Data/Blog Posts:**

- <https://www.washingtonpost.com/health/2020/04/06/coronavirus-stay-at-home-by-state/>
- <https://www.wsj.com/articles/a-state-by-state-guide-to-coronavirus-lockdowns-11584749351>
- <https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html>
- All of our excel data can be viewed [here](#)