# CSC 454 Project Proposal

# Dustin Cook April 14th 2020

## Where did I find the data

https://www.kaggle.com/c/covid19-global-forecasting-week-4/data

It is the data used for the covid19 contest, but a person merged it with weather data.

# Information

Number of objects: 25353Number of attributes: 21

#### Early Visualizations

Current confirmed cases of the world:

#### Ethical or privacy issues

I don't see much currently. The data is pretty well taken away from people, the only information being the number of cases and location.

## Hypothesis

A more moist environment increases the rate of infection for covid19.

#### What I will study:

I will break apart the data based upon the observed infection rates of the virus and their environments, and I will attempt to gauge if it is more probable that a moist environment has a higher infection rate than a dry one.

I will probably build several models after I find (if any) interesting factors of the data, and I will test these models to help prove or disprove the hypothesis.

I will be using a combination of the orange software and a jupyter notebook which can be found at:

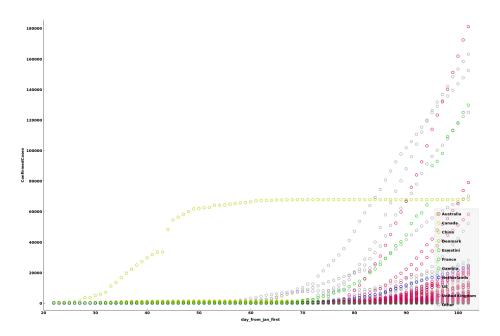


Figure 1: World Cases Confirmed

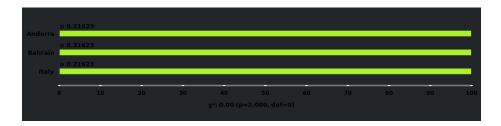


Figure 2: High infection rate countries

	Rank			
	# ^	Infain	Gaitio	Gini
C Lat	3	0.059	0.037	0.032
C dewp	3	0.058	0.037	0.031
C min	3	0.051	0.032	0.028
C temp	3	0.051	0.032	0.028
C max	3	0.047	0.030	0.026
<b>C</b> ConfirmedCases	3	0.020	0.013	0.012
<b>C</b> Long	3	0.018	0.011	0.007
<b>C</b> Fatalities	3	0.018	0.016	0.011
C ah	3	0.017	0.010	0.009
<b>©</b> stp	3	0.013	0.008	0.005
c rh	3	0.006	0.004	0.003
C slp	3	0.004	0.003	0.003
C prcp	3	0.002	0.002	0.001
C wdsp	3	0.002	0.001	0.000
c day_froman_first	3	-0.000	-0.000	0.000
C Date	3	-0.000	-0.000	0.000
<b>©</b> fog	2	0.002	0.002	0.000

Figure 3: Rankings

 $https://github.com/dustinc555/csc454\_project/blob/master/Project.ipynb$