**METADATATA**

**Team Name**: PPFST Crowd

**Team Abbreviation**: PPFST\_Crowd

**Model Name**: PPFST Crowd Fibonacci Weighting

**Model Abbreviation**: PPFSTCrowdFibwt

**Model Contributors**: Jeff Morgan, [19morgan@cua.edu](mailto:19morgan@cua.edu) with some overall guidance from Otto Wilson, Prahlad Menon, and Binh Tran. Initial idea followed from a conversation with Roni Rosenfeld.

**Brief Description of Each Data Source:** I hope to be able to create an Ensemble Model from other entries. I am not attempting to build a better model; I am wanting to build a better Ensemble Model. (If it is not possible for me to use output from other teams, I will generate a set of probability distribution functions based on the ILI% trajectory of H1N1 and the states which are experiencing COVID-19 first, scaling and shifting those trajectories.)

The website <http://covid19modelselection.com> will include a link (or possibly embed) to the following:

<https://neherlab.org/covid19/>

<https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html>,

<https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>

<https://www.bing.com/covid>

<https://healthweather.us/>

I will likely include other sites. I will also provide links to papers and pre-prints. I don’t expect people to use those very much, but I want to make them available for those who are.

**Model Type:** Ensemble

**Interventions:** Inherent in the models being built and in the judgment of the crowd members. I am building another website covid19crowd.com where I hope to ask various questions about their expectations for the outbreak. I will also ask questions specifically aimed at collecting the Crowd’s opinion on behavior modifications. I will make those results available to this crowd and any modeler who wants it. When ready, I’ll provide a link during one of the CDC calls.

**Methological Description:** I will ask crowd members to vote on which model they believe provides the best probability distributions for each of the targets as well as the probability of going under baseline for three consecutive weeks.

I will email “ballots” to participants and allow for online voting at http:covid19modelselection.com.

I will also provide them with a worksheet with the epicurves from previous influenza seasons (’08-’09, ’09-’10, ’14-’15, ’15-’16, ’16-’17, ’17-’18, ’18-’19, and ’19-’20. I will also provide a link to an Excel file for epicurves of ’19-’20 for each of the states that CDC ILI lists.

The number of votes received for each model will be used to determine the rank. For example, if five models are chosen, their weights will be (note that 1st = 2nd + 3rd ):

1st: 0.420

2nd: 0.259

3rd: 0.160

4th: 0.099

5th: 0.061

If two models collect votes and tie, their weight will be an average. In the above example, if the top two models tied, they would each have a weight of (0.420 + 0.259)/2 = .340.

All models that don’t receive any votes will be lumped together and split the weight for the last pick (note: the effect of this decision will be assessed separately). So, only three models receive votes, the weighting will be:

1st: 0.447

2nd: 0.276

3rd: 0.171

4th and 5th half of: 0.106

I wrote this summary of the Wisdom Of Crowds approach previously: <http://influenzamodelselection.com/WisdomofCrowdsTheory.pdf>