

Outreachy M-Lab Project Proposal

I would like to look for correlation between social unrest that is being organized via social media and significant increase in RTT.

I would begin by choosing several incidences of social unrest, for example the Arab Spring in Egypt, Tunisia, Bahrain and the recent protests in Hong Kong. In each case I would create a daily, weekly and monthly time series of the mean RTT's from the months preceding the incidents in question. I would then use those time series to forecast RTT's for the time intervals during which the social unrest took place and I would compare those with the actual RTT's. A significant difference between the actual and predicted values would mean that there was an external factor that altered the "regular" process.

Project Timeline: I would spend three weeks on each of the following events: Arab Spring in Egypt, Arab Spring in Tunisia, Arab Spring in Bahrain and the 2014 Hong Kong protests. During each three week period I would acquire the relevant data, perform the analysis and write up my findings. I would use the last few days of the internship to summarize and compare the results of each of the three week periods.