

Stocks vs COVID19

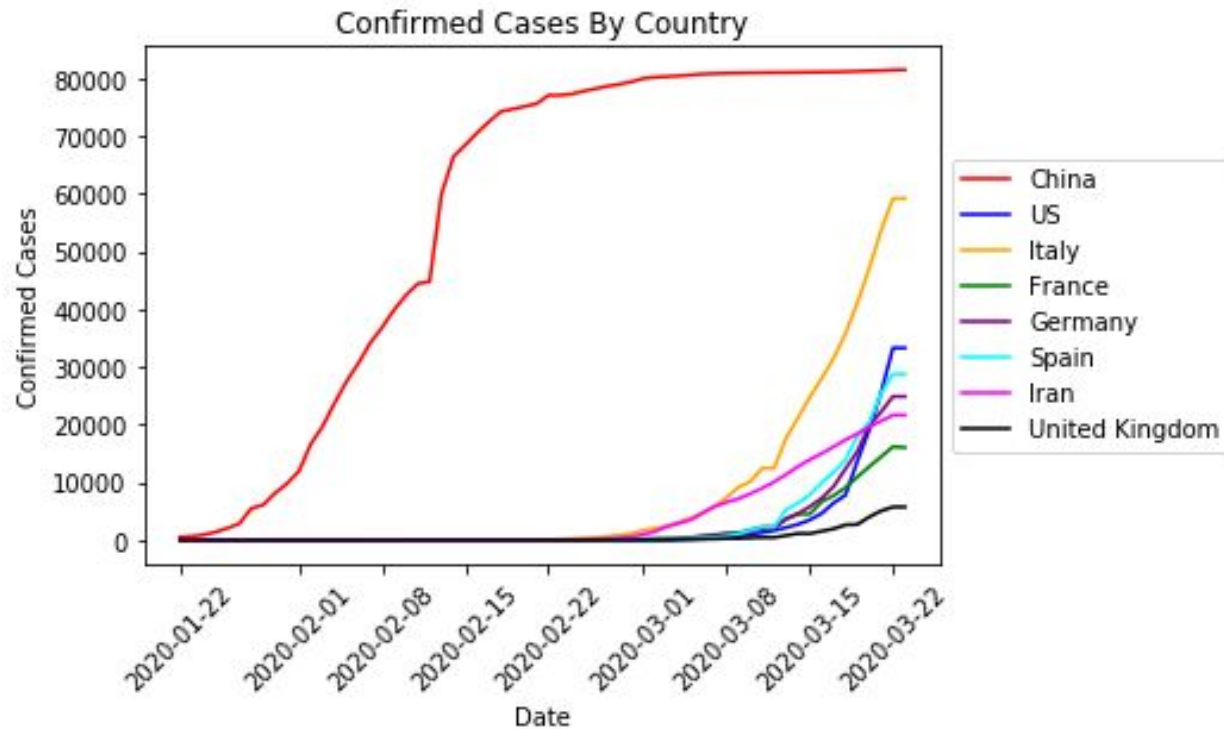
Nate Berman

Peter Shapiro

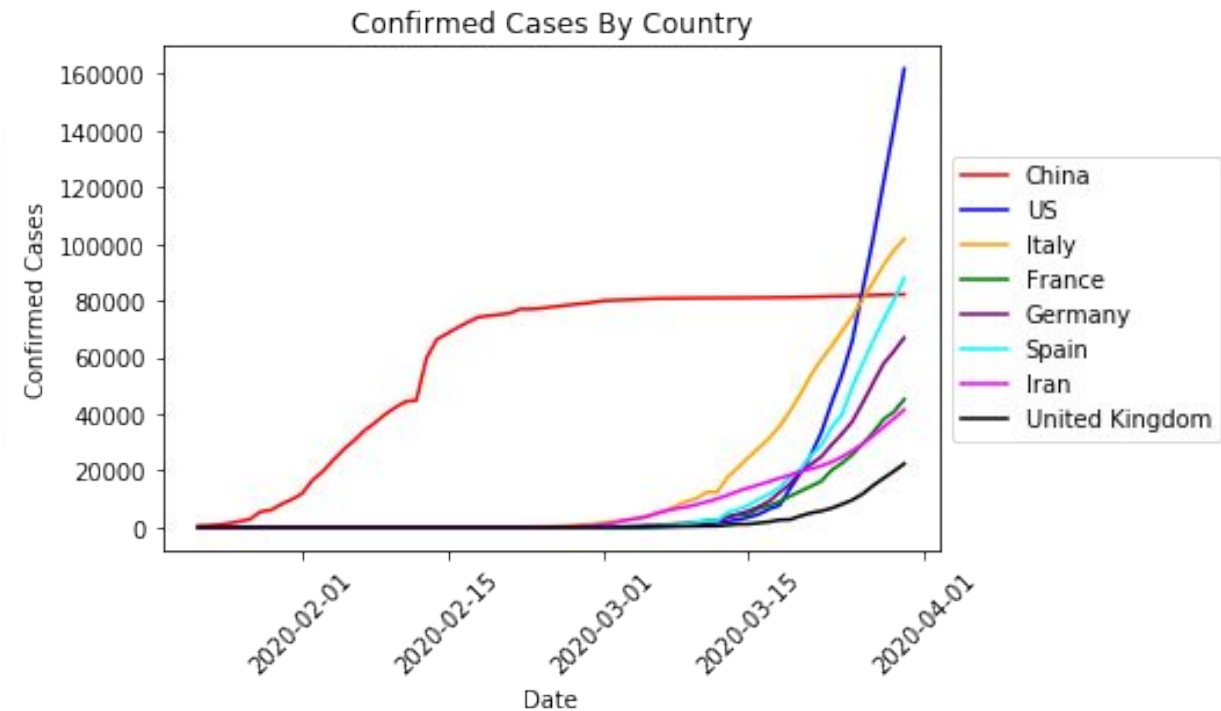
Daniel Bradley

Question 2: Did the COVID-19 infection rate of certain countries have a larger impact on markets than others?

Motivation: Understanding this may allow us to better predict how markets will react to large scale global events like this in the future.



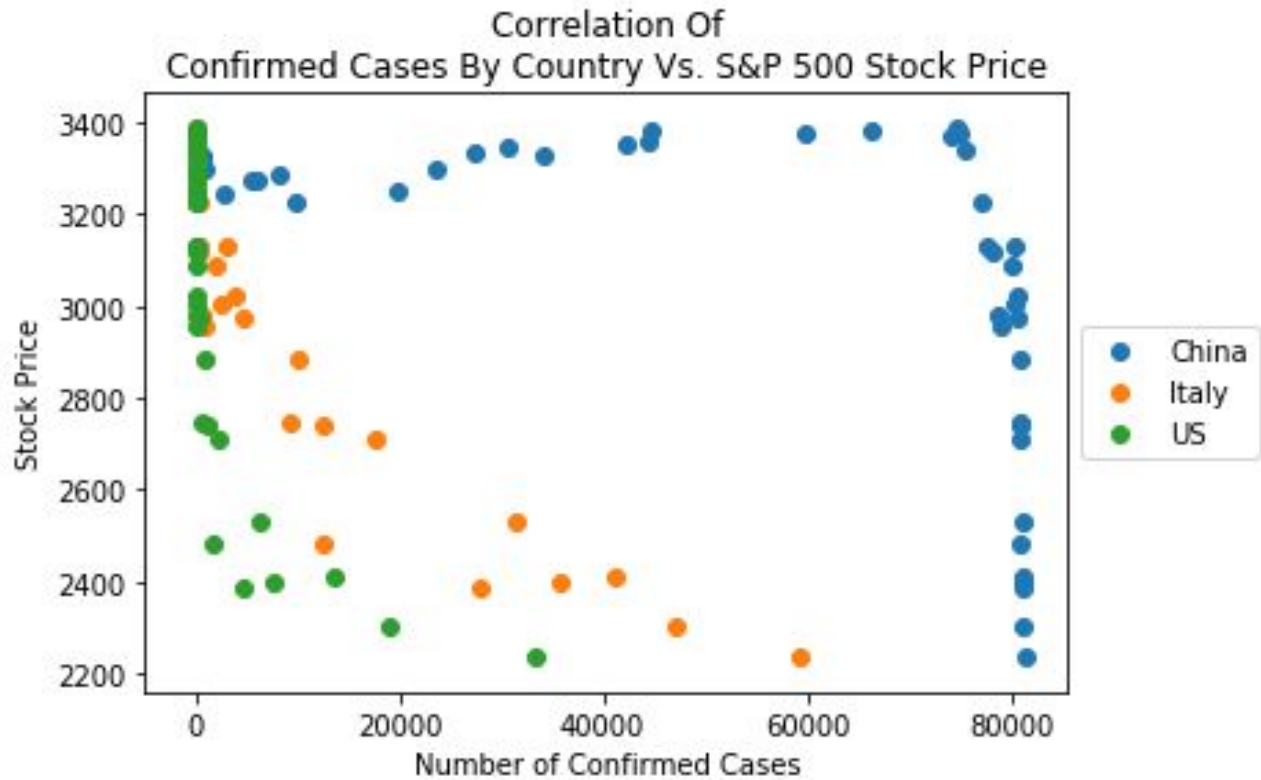
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Absolute Value of r	Strength of Correlation
$r < 0.3$	None or very weak
$0.3 \leq r < 0.5$	Weak
$0.5 \leq r < 0.7$	Moderate
$r \geq 0.7$	Strong



Correlation Coefficient By Country:
China: -0.56
Italy: -0.9
US: -0.71

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Conclusions

China's rapid growth in infections did not have as strong of an impact as other countries in terms of the way the stock market reacted.

Limitations

- Dates of impactful countries infection rates can potentially skew data for less important ones.
- Data is constantly updating and changing

Country	S&P Death Correlation	S&P Confirm Correlation
Korea, South	-0.90	-0.94
Qatar	-0.15	-0.88
Japan	-0.87	-0.88
Bahrain	-0.63	-0.87
San Marino	-0.78	-0.86
Iran	-0.80	-0.83
Brunei	-0.15	-0.80
West Bank and Gaza	-0.29	-0.80
Denmark	-0.51	-0.80