

# Curve fitting predicting the number of daily deaths due to the COVID-19 in the near future

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I agree with their implications on the weakness of the US healthcare system<sup>1,2</sup>. As of Oct. 30 in 2020 using the last 200 days open data<sup>3</sup>, the number of daily deaths due to the COVID-19 in the US can be predicted by the state-of-the-art curve fitting with the 6<sup>th</sup> degree polynomial:

Nov. 6 daily deaths 959,

Nov. 13 daily deaths 1017, and

Nov. 20 daily deaths 1002.

Fig. 1 shows the predicted three red points on the number of deaths on Nov. 6, Nov. 13 and Nov. 21 respectively. The graph was created by the curve-fitting Python program: `usdaily.py`<sup>4</sup>. If the US does not change the current policy against the COVID-19 pandemic, the number of daily deaths will not be alleviated in the next three weeks.

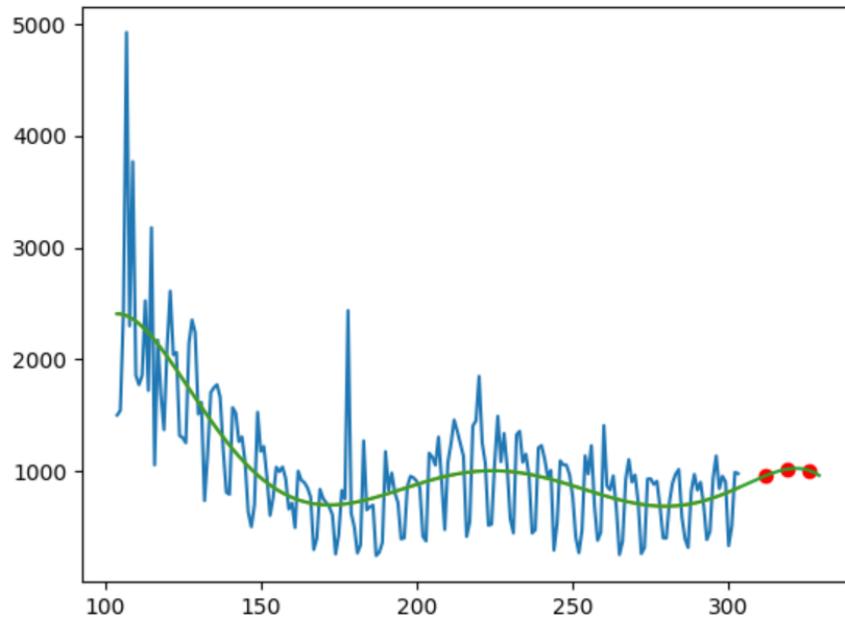


Fig. 1 predicted number of deaths on Nov.6, 13 and 21

## References:

1. October 29, 2020 N Engl J Med 2020; 383:e105 DOI: 10.1056/NEJMSr2031592
2. October 21, 2020 DOI: 10.1056/NEJMp2028209
3. [https://covid.ourworldindata.org/data/ecdc/new\\_deaths.csv](https://covid.ourworldindata.org/data/ecdc/new_deaths.csv)
4. <https://github.com/ytakefuji/US>