Senior Honor Thesis Project

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# 1. INTRODUCTION

# 2. METHODS

The primary method of predicting the new Coronavirus case number in this project is to compute the new case number difference between two consecutive days (Dickey & Sastry, 1987) by fitting linear regression models over the case number difference and death number difference of the past 14 consecutive days, the population of each country in 2019, and the population density of each country in 2019.

# 3. RESULTS

# 4. DISCUSSIONS

### References

Dickey, David A., and Sastry G. Pantula. “Determining the Order of Differencing in Autoregressive Processes.” Journal of Business & Economic Statistics 5, no. 4 (1987): 455–61. <https://doi.org/10.1080/07350015.1987.10509614>.