# What Does Policy Responses During COVID-19 Reveal of Chinese Local Governments

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## 1    Explore with Matching/Multivar Regression

For example, let the cut-off date, $i$, be Feb 6, 2020.

$L$ is the dummy variable indicating whether the city has locked-down on day $i$.

$Ind_2$: the percentage of the second industry in GDP is over 50%.

$Ind_3$: the percentage of the third industry in GDP is over 50%.

$C$: the number of confirmed COVID-19 case on day $i$.

$X$: the independent variables of interest, for example age of the city secretary.

Run the following regression for Non-Hubei cities:

$$L = \alpha + \beta X + \gamma_1 Ind_2 + \gamma_2 Ind_3 + \gamma_3 C + \epsilon \tag{1}$$