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#### Introduction

### Repo Stucture & Research Question

#### Repo Stucture



### Research Question

- GDP in different countries from the year of 1970 to 2017? How do the average annual hours worked relates to the
- hour production capacity is higher, which means that people inequality between countries today has an important impact. Workers in rich countries tend to be shorter than workers in poor countries. Because in richer countries, workers per centuries of economic progress and the essence of the countries working time on how we look at the past two there have the higher income and less working hours. Therefore, the dramatic differences between different

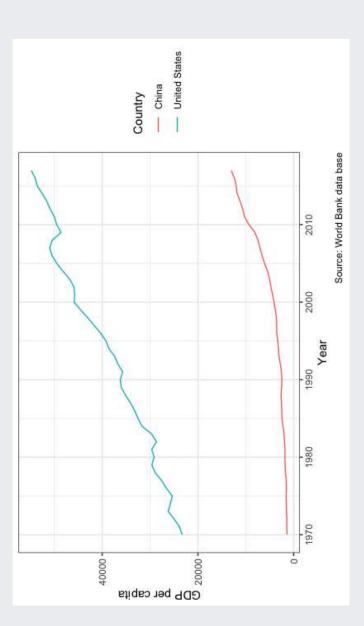
## China and The United States

\*\*Q1: How do the Average annual hours worked relates to the GDP between China and The United States \*\*Q2: What is the trend of GDP between China and The United States

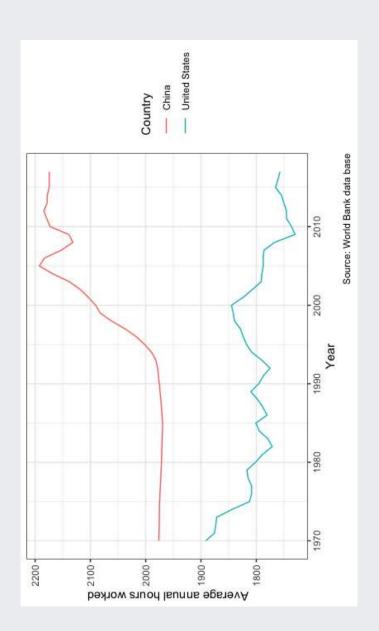
## Descriptive statistical analysis of China and The United States

	Descriptive st	tatistical analysi	Descriptive statistical analysis of China and the United States	ne United States	
Country	Variable	Minimum	Median	Mean	Maximum
China	Hours.worked	1969.39	1985.48	2049.81	2192.35
China	GDP.per.capita	1394.16	3127.29	4574.76	13042.65
China	Population	827601385.00	827601385.00 1224418542.50 1179497606.85 1421021794.00	1179497606.85	1421021794.00
United Stat	United States Hours.worked	1729.96	1795.14	1799.27	1891.41
United Stat	United States GDP.per.capita	23285.58	37978.02	39046.42	54794.76
United Stat	United States Population	209513340.00	209513340.00 260886667.00 264561185.08 325084758.00	264561185.08	325084758.00

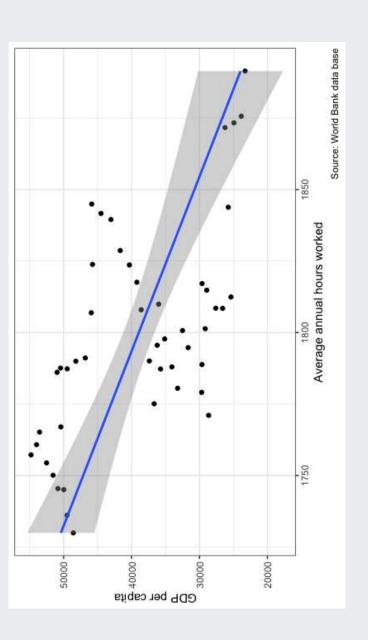
## GDP per capita between China and The United States.



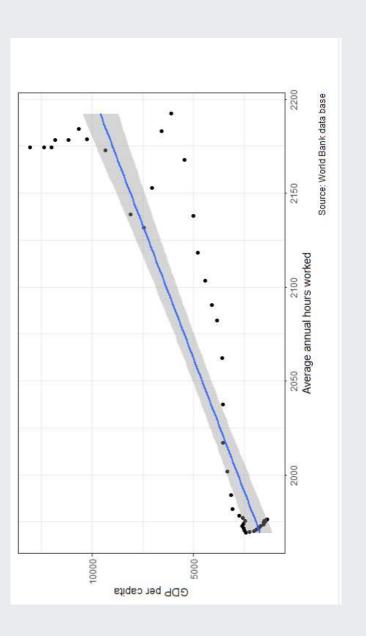
#### Average annual work hours between China and The United States.



# The relation between Average annual hours worked and GDP per capita in The United States



# The relation between Average annual hours worked and GDP per capita in China



### INDIA AND UNITED KINGDOM





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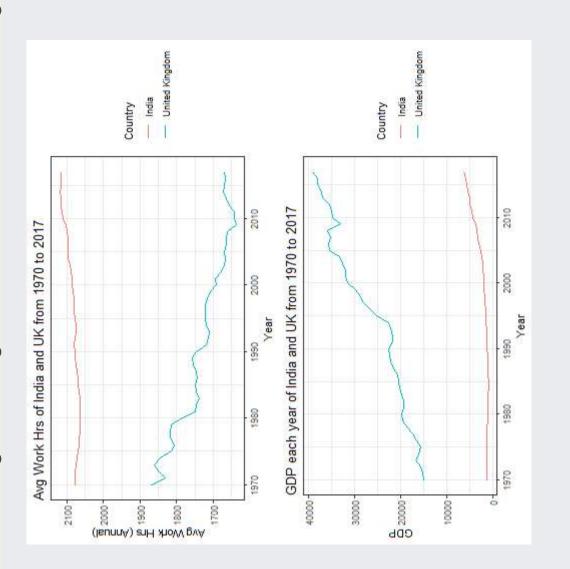
Average GDP and Working hours of India and United Kingdrom from 1970 to 2017

Country avg\_GDP avg\_working\_hrs
India 2295.446 2084.478

United Kingdom 26122.861 1729.940

of GDP of United Kingdom is very high than India which means, average working hours than United Kingdom, the average vale From the above table, we see that despite India has more for India and United Kingdom, GDP does not depend on Working hours solely, there are other factors as well.

#### GDP and average working hours in India and United Kingdom. To understand this, let's create a figure and see the trend in



Therefore, GDP does not solely depend on working hours or we in population might be another reason for India's falling short in increase has not been that much, therefore this huge increase number of hours as compared to India with low GDP. In India, the population has increased to a great extent and in UK, the compared to UK. On the other hand, in UK, Average working hours are decreasing continuously while GDP is going up. From the above plots, it is clear that in India, the Average can say that, in richer country, UK, people work for lesser working hours and GDP both are increasing but not as GDP growth.

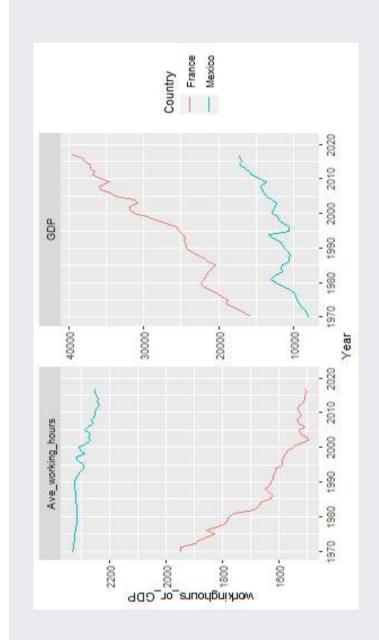
### France & Mexico

### **Country Background**

- France is a developed country
- Mexico is a developing country

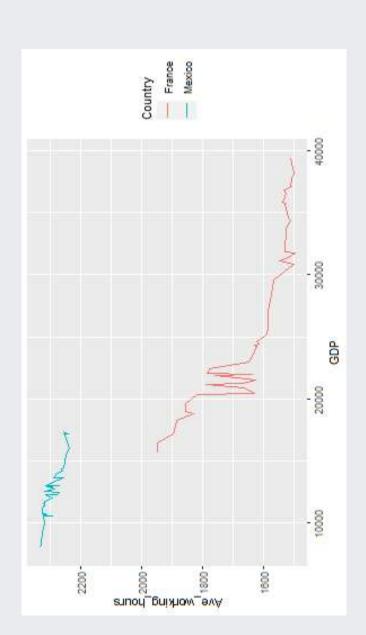
### Stucture of this section

- Observe the developing trend with the changes of working hours and GDP within each country
- Compare these two diffrent counties to calculate their average working time and GDP



The Development of Average Working Hours and GDP with the Year Changes

- worked by persons are gradually decreased in both of two The left part figure shows that the average annual hours countries from the year of 1970 to 2017.
- output-side real GDP per capita shows a continuous rise in The right part figure indicates that the overall trend of the the same period.



## The Camparation between Average Working Hours and GDP

 The figure above shows that the per capita working hours in France and Mexico show a declining trend as GDP increases.

#### Working Hours and GDP between The Comparation of Average France and Mexico

GDP	968	339
G	26998	12339
hours	1640	2297
Working_hours		
Country	France	Mexico

 It can be found from the table that the France has a lower people in Mexico work around 2,297 hours and GDP per working hours and a higher GDP compared with Mexico with 1,640 hours and 26,998 dollors respectively. And capita is around 12,339 dollors. While average earnings have risen, hours worked have fallen.

Working hours tend to decrease as countries become richer.

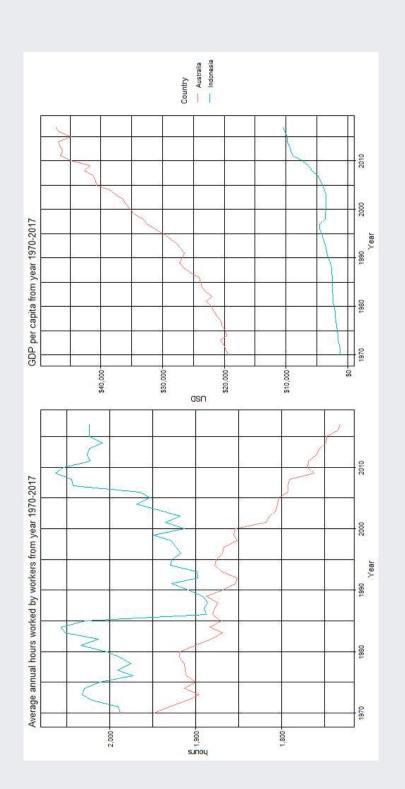
### Australia & Indonesia





source: https://flaglane.com/

#### Australia & Indonesia



#### Australia & Indonesia

The Comparation of Average Annual Working Hours and GDP between Australia and Indonesia

Average of GDP per capita (USD)
Average of the Average Annual Working Hours (hours)
Country

4120.22 31320.31 1847.69 1977.30 Indonesia Australia

Less working hours resulted in higher GDP

#### Conclusion

the resources available for people in rich countries with the help of which they are able to complete more work in less number of population and how efficiently people are working and what are analyzation, we found that GDP growth does not solely depend lesser number of hours. There can be many factors for this like on Working hours and also, people in richer countries work for respective GDP growth with respect to Hours of Work which For this study, we took 8 countries (China, USA, India, UK, France, Mexico, Australia & Indonesia) and analysed their each person does on an average in one year. After the