# INVESTIGATION IN FERTILITY RATE IN THE DEVELOPED COUNTRIES

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- To find out the significant factors affecting the level of fertility in developed countries 1.
- 2. To give an insight to the public and government on what to be mainly focused on when it comes to solving declining population growth

### **Background Information**

The world been increasing. declining

Hong Kong has fertility rates in the world

In many developed fertility rate has 1940s The fertility rate has been fortility rates in hard the governments hard the governments have tried, the fertility rates remain low.

#### Literature Review

Persistent Unemployment Rate

- High Female Labour Participation
- High Female Unemployment Rate > Lifetime Income Penalty for Women
  - Lower Spousal Earning in Long-term
  - > Low Marriage Rate



### Data & Methodology

Data: 2007-2017

Hong Kong		
Canada	France	United States
Singapore	Japan	United Kingdom
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#### **Regression Model**

 $Fertility_{it} = \beta_0 + uemp_w_{it} + wage_{it}$  $marriage_{it} + \varepsilon_{it}$ 

#### Variables

Female Unemployment Rate uemp_w(-)	Consumer Price Index <i>cpi</i> (-)
Housing Prices Indicator house(-)	Average Annual Wage Growth Rate <i>wage</i> (+)
Education Index <i>edu</i> (-)	Carbon Dioxide Emission <i>co2</i> (-)
Political Risk Index political (+)	Crude Marriage Rate <i>marriage</i> (+)
Average Weekly Working Hour <i>working_week</i> (-)	Female Life Expectancy <i>life_w</i> (-)

## Findings & Analysis

- 1. Female Unemployment Rate: Short-term female unemployment → lower O.C. of child bearing → more time in raising children
- 2. Average Wage Growth Rate: Higher income  $\rightarrow$  more savings  $\rightarrow$  easier to afford cost of child bearing
- 3. Crude Marriage Rate: Marriage as a commitment to raise up and nurture children



#### Limitations

- Insufficient data variables
- Some variables may not be the best proxy to represent the factor

#### Conclusion

- unemployment benefit