

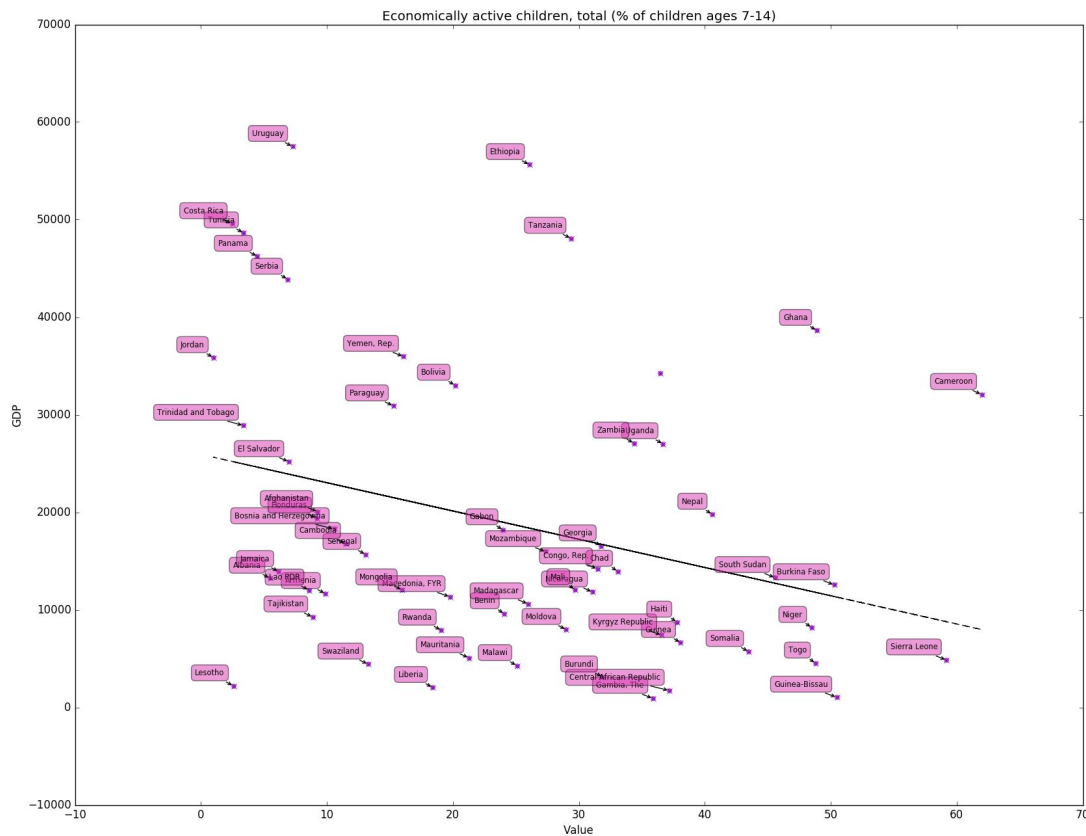
# LDC CHILD LABOR

**Joy Zhang, Wesley Tsai**

# CHILD LABOR DILEMMA

- 18% children (5-14) economically active
- 25% children LDC illiterate (UN)
- Education increases GDP (Harvard)

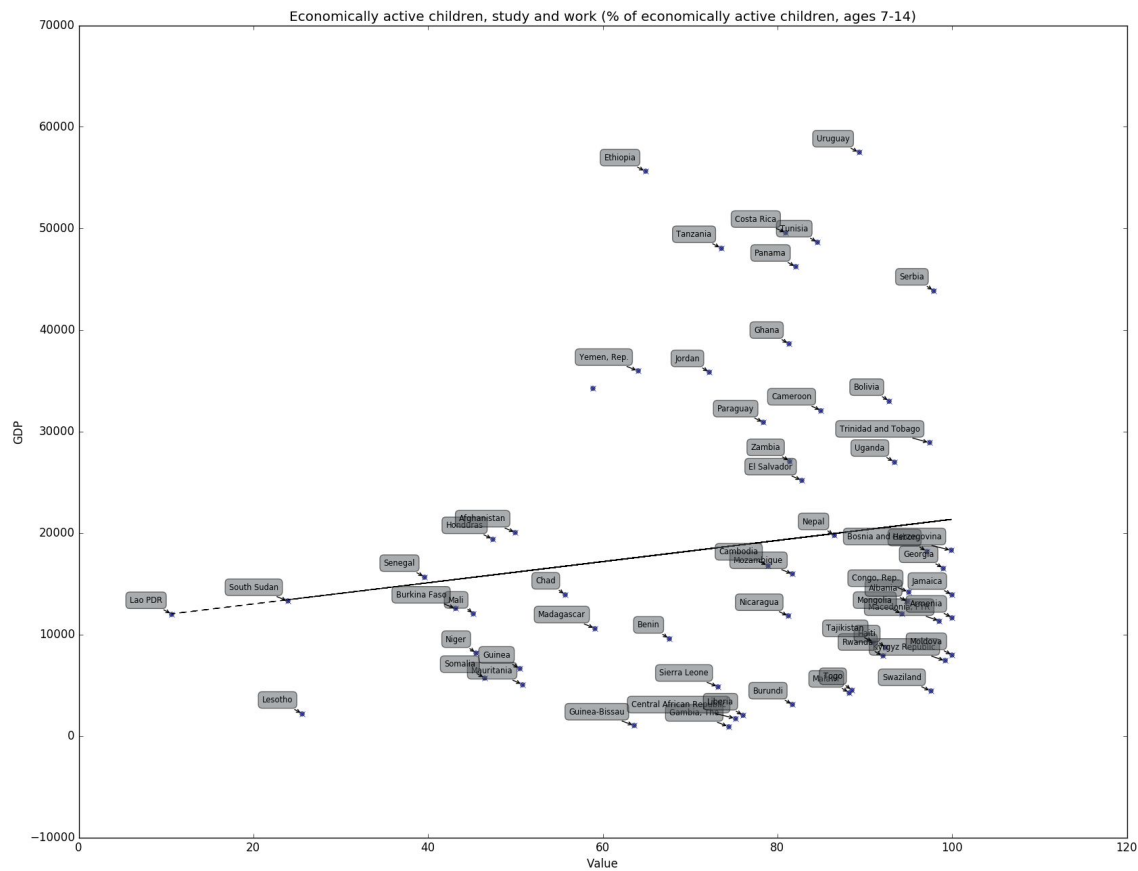
# CHILD LABOR IS CORRELATED WITH LOW GDP



# PROBLEM

How to increase GDP with economically active children?

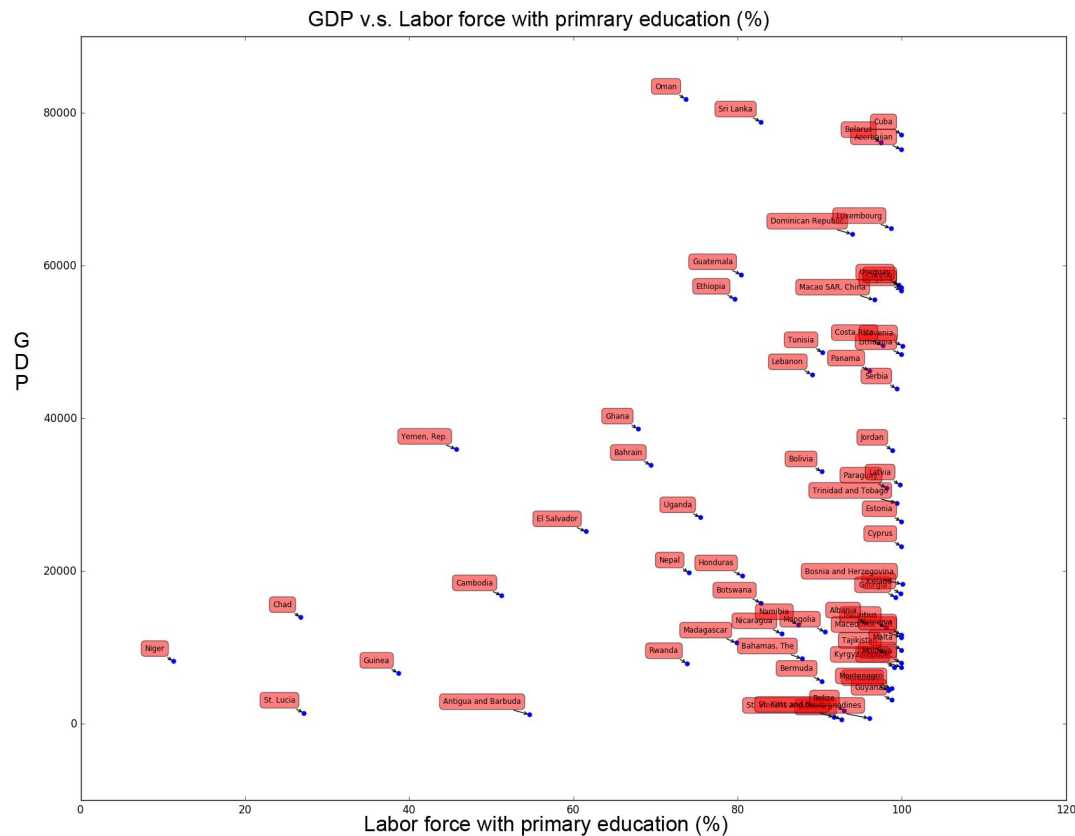
# LABOR + STUDY = INCREASE IN GDP



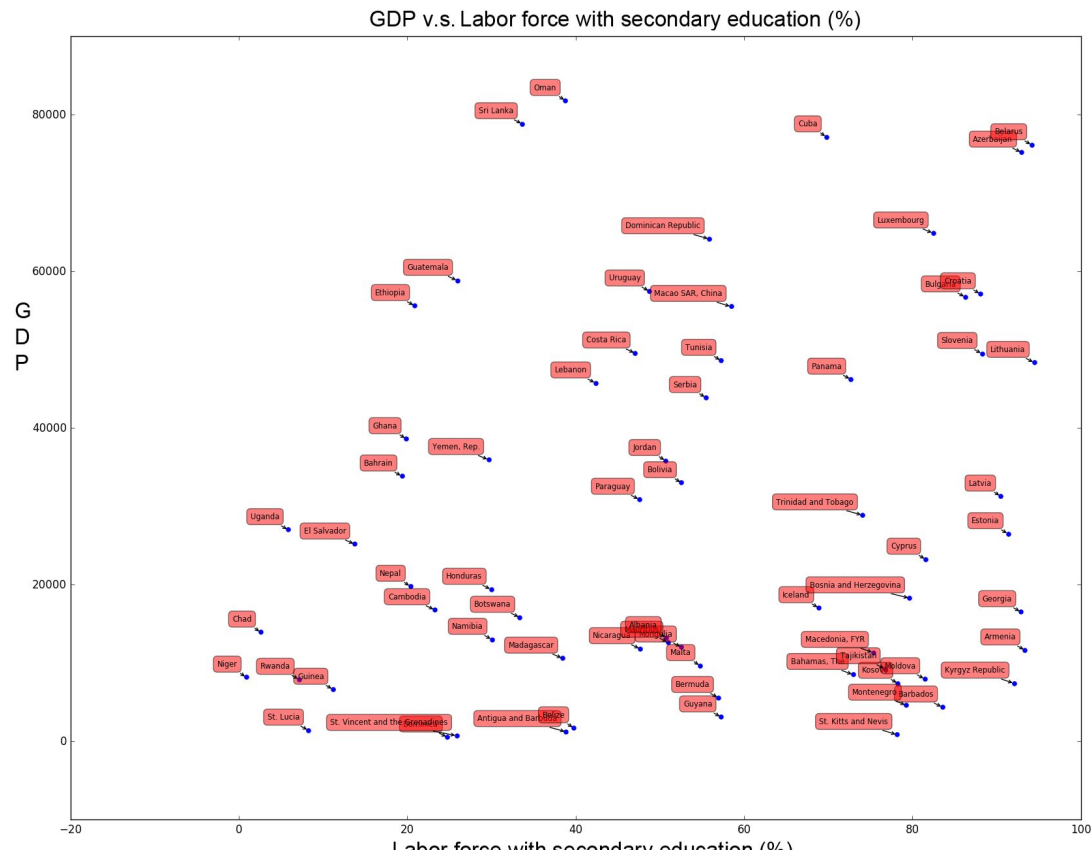
# CHILD PRIMARY EDUCATION AS GDP GROWTH CAP

- Second point: Lack of primary education **caps GDP**

# GDP VS LABOR FORCE WITH PRIMARY EDUCATION



# GDP VS LABOR FORCE WITH SECONDARY EDUCATION





# ANALYSIS OF COUNTRIES

- Linear regression of GDP vs Children who work + study
  - Per % of children who go from work to work and study, \$100M USD up in GDP
- Lethosos 7% GDP = \$153M USD
  - Only need to get 2% of children

# RECOMMENDATION

(immediate)

- Divert funding to primary education in LDCs, especially for children that are working

(long)

- E-education

THANK YOU!

# CITATIONS

<http://www.theguardian.com/global-development/2014/jan/29/illiteracy-education-young-people-developing-countries>

[http://scholar.harvard.edu/files/aghion/files/causal\\_impact\\_of\\_education.pdf](http://scholar.harvard.edu/files/aghion/files/causal_impact_of_education.pdf)

<http://www.uniteforsight.org/gender-power/module4>

# BIG DATA

- Goal: To find the best predictor of GDP growth in LDCs
- We used Python and Quandl
  - **Hundreds of datasets!**

# BIG DATA

