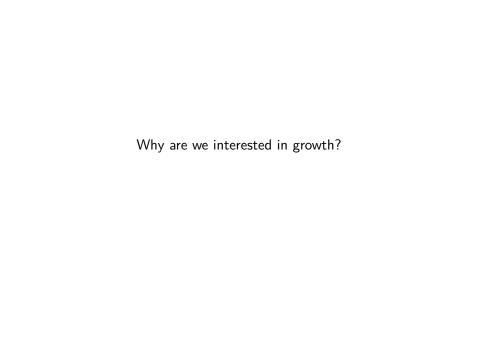
Politics of Growth | PS 2543

Michaël Aklin





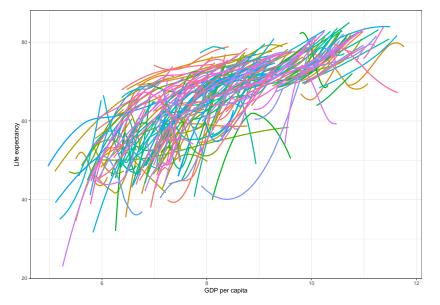


Figure 1: GDP per capita and life expectancy. Figure: Aklin. Source: WDI.

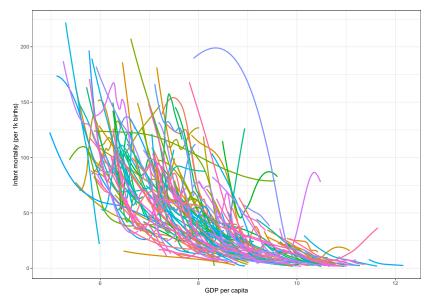


Figure 2: GDP per capita and infant mortality (death per 1,000 births). Figure: Aklin. Source: WDI.

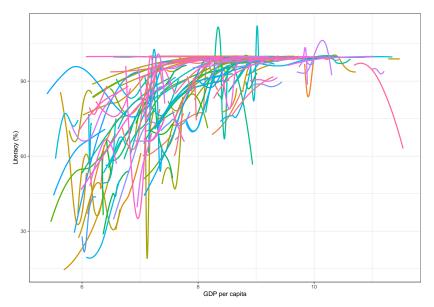


Figure 3: GDP per capita and literacy. Figure: Aklin. Source: WDI.

Two divisions in political economy:

- (i) Micro vs. macro
- (ii) Long-term (growth) vs. short term (business cycle)
- ▶ 19th century: interest in long-term growth (Ricardo, Smith)
- Late 19th-130s: lots of interest in business cycle (Great Depression)
- ▶ Since 1945: return of growth studies
 - Rapid growth in the West
 - ► Growing global inequality

Great divergence

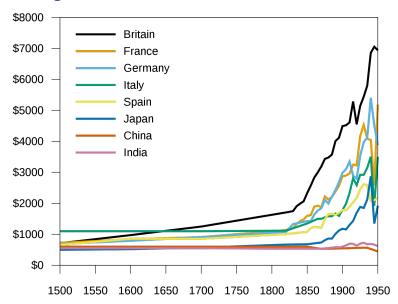


Figure 4: Data: Maddison. Source: wiki.

How to make sense of it?

Early attempts: Solow-Swan growth models.

Input: capital. Labor, technology: constant

$$Y = F(K) \hspace{1cm} F \equiv \text{prod function}$$

$$F'(K) > 0$$

$$F''(K) < 0$$

Q: how does Y grow? A: when K grows!

Q: how does K grow? A: investments!

$$\frac{\partial K}{\partial t} \equiv \dot{K} = I = sY - \delta K$$
$$= sF(K) - \delta K$$

 $K* \to sF(K) - \delta K = 0$

 $2nd\ last\ expr:$ fundamental differential equation of neoclassical growth theory

Adding labor

$$Y = F(K,L)$$

$$F(\lambda K, \lambda L) = \lambda F(K,L)$$
 constant ret scale

If pop L grows at rate n:

$$\begin{split} y &\equiv \frac{Y}{L} \\ &= \frac{F(K,L)}{L} = F(K/L,1) \\ &\equiv f(k) \end{split}$$

If we assume F() is Cobb-Douglas:

$$Y = K^{\alpha}L^{1-\alpha} \qquad 0 < \alpha < 1$$

$$k = k \qquad \alpha$$

Then:

$$\dot{k} = sf(k) - (\delta + n)k$$

- ▶ Thus: growth goes to zero and depends on labor, capital
- ▶ Empirically: not great to explain divergence
- \triangleright Addition: human capital, technology (grows at rate g)

$$Y = (AL)^{1-\alpha}K^{\alpha}$$
$$\dot{k}sk^{\alpha} - (n+g+\delta)k$$

- ▶ That brings us to the 1980s (Heckman, Barro, Mankiew)
- ▶ Since then: Schumpeterian growth
- ► And: institutional theory
 - Institutions (North, Weingast, Ostrom, Acemoglu, Robinson)
 - Contracts and incentives (Coase, Williamson, Duflo, Pande)
 - ▶ Iconoclasts (Przeworski, Hirschmann)



Assignments

- ▶ 50%: a research project/pre-analysis plan (including theory + empirical design; data analysis optional)
- ▶ 40%: in-class presentations and participation.
- ▶ 10%: a book review.

Structure

- 1. Lecture (when applicable)
- 2. Presentations of papers
- 3. Presentation of own research

Presenting a paper

- ► ~20 minutes
- Summarize:
 - 1. Research question and why it matters (if it does)
 - 2. Theory: what explains the variation of what and why
 - 3. Empirical strategy and results
- Discuss: what's next?
 - Expanding theory?
 - Using empirical strategy?
 - etc.

Presenting your own research

- You will all present at least three times
- 1. Research question
- 2. Theory
- 3. Empirical design
- 4. Analysis

Online

Signup sheet for presentations: shorturl.at/bjkmt.

Homepage for the course:

 $https://michaelaklin.github.io/2023_ps2543/$

Questions?

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