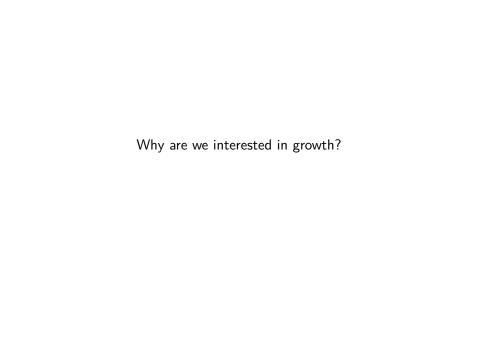
Politics of Growth \mid PS 2543 \mid Week 1

Michaël Aklin



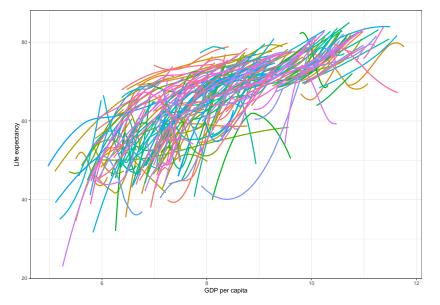


Figure 1: GDP per capita and life expectancy. Figure: Aklin. Source: WDI.

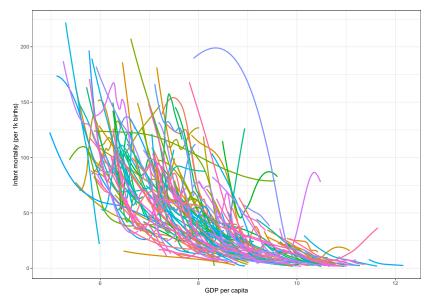


Figure 2: GDP per capita and infant mortality (death per 1,000 births). Figure: Aklin. Source: WDI.

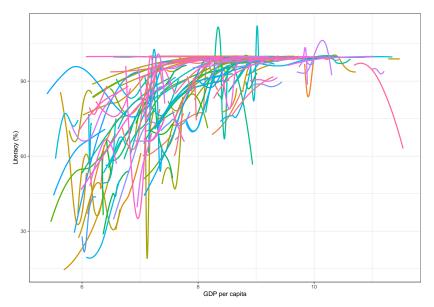


Figure 3: GDP per capita and literacy. Figure: Aklin. Source: WDI.

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

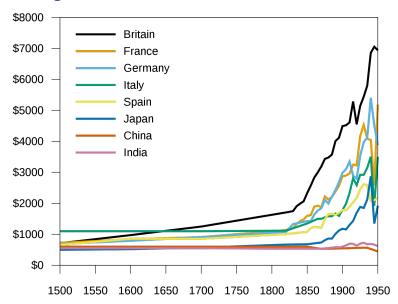


Figure 4: Data: Maddison. Source: wiki.

How to make sense of it?

Early attempts: Solow-Swan growth models.

Input: capital. Labor, technology: constant

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

$$F'(K) > 0 \hspace{1cm} \text{Inada assumptions}$$

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

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

Q: how does K grow? A: investments!

$$\frac{\partial K}{\partial t} \equiv \dot{K} = I$$

growth theory

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

2nd last expr: fundamental differential equation of neoclassical

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:

$$y \equiv \frac{Y}{L}$$

$$= \frac{F(K, L)}{L}$$

$$= F(K/L, 1)$$

$$\equiv f(k)$$

If we assume F() is Cobb-Douglas:

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

$$y = k^{\alpha}$$

Then:

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

- Thus: growth (of GDP or GDP per capita) goes to zero and depends on labor, capital
- Empirically: not great to explain divergence
- Addition: human capital, technology (grows at rate g)

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

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

- ▶ That brings us to the 1980s (Heckman, Barro, Mankiew)
- ► Since then: Schumpeterian growth (Aghion)
- And: institutional theory
- Institutions (North, Weingast, Greif, Ostrom, Acemoglu, Robinson)
 - ➤ (Social) contracts and incentives (Coase, Williamson, Putnam, Duflo, Pande)
 - lconoclasts (Przeworski, Hirschman)



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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