Inequality & capitalism in the long run

- Long run distributional trends = key question asked by 19\textsuperscript{C} economists
- Many came with apocalyptic answers
- Ricardo-Marx: a small group in society (land owners or capitalists) will capture an ever growing share of income & wealth
  → no “balanced development path” can occur
- During 20\textsuperscript{C}, a more optimistic consensus emerged: “growth is a rising tide that lifts all boats”
  (Kuznets 1953; cold war context)
• But inequality ↑ since 1970s destroyed this fragile consensus (US 1976-2007: ≈60% of total growth was absorbed by top 1%)

→ 19C economists raised the right questions; we need to adress these questions again; we have no strong reason to believe in balanced development path

• 2007-2012 world financial crisis also raised doubts about balanced devt path… will stock options & bonuses, or oil-rich countries, or China, or tax havens, absorb an ever growing share of world ressources in 21C capitalism?
Convergence vs divergence

- **Convergence forces do exist**: diffusion of knowledge btw countries (fostered by econ & fin integration) & wth countries (fostered by adequate educ institutions)

- **But divergence forces can be stronger**:
  1. When top earners set their own pay, there’s no limit to rent extraction → top income shares can diverge
  2. The wealth accumulation process contains several divergence forces, especially with \( r > g \) → a lot depends on the net-of-tax global rate of return \( r \) on large diversified portfolios: if \( r = 5\%-6\% \) in 2010-2050 (=what we observe in 1980-2010 for large Forbes fortunes, or Abu Dhabi sovereign fund, or Harvard endowment), then global wealth divergence is very likely
This lecture: Inequality in America

• Inequality in the US is now larger than ever before in American history. About 50% of national income goes to the top 10% (incl. 20% to top 1%), i.e. approximately the same record high level as UK or France around 1910.

• Does US inequality keep a distinctive meritocratic character, or is the New World simply becoming like Old Europe?

• As compared to UK or France 1910, current US inequality has a different structure: it is more based upon labor income and less upon inherited wealth. But:

• This difference is a matter of degree and should not be exaggerated. US wealth concentration is very large. US wealth-income ratios might also reach record levels in the future. Key difference with Europe = population growth.

• The enormous rise in top labor incomes has little to do with merit. Modern US inequality puts enormous pressure on loosers (meritocratic extremism). At least Belle Epoque or Ancien Régime inequality did not really pretend to be fair.
FIGURE 1
The Top Decile Income Share in the United States, 1917-2010

Source: Piketty and Saez (2003), series updated to 2010.
Income is defined as market income including realized capital gains (excludes government transfers).
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FIGURE 2
Decomposing the Top Decile US Income Share into 3 Groups, 1913-2010

- ▲ Top 1% (incomes above $352,000 in 2010)
- △ Top 5-1% (incomes between $150,000 and $352,000)
- ◇ Top 10-5% (incomes between $108,000 and $150,000)
Top Decile Income Shares 1910-2010

Top 1% share: Continental Europe and Japan (L-shaped), 1900-2010

- France
- Germany
- Netherlands
- Switzerland
- Japan
- Sweden
Top 1% share: Continental Europe, North vs South (L-shaped), 1900-2010

- France
- Germany
- Spain
- Italy
- Sweden
Top 1% share: Developing and emerging countries, 1920-2010

- China
- Indonesia
- Argentina
- India
- Singapore
- South Africa
- Mauritius
Top 1% share: Developing and emerging countries, 1920-2010
US 2010 vs Old Europe 1910

- US income inequality in 2010 is as large as UK-France at the eve of World War 1: about 50% of national income goes to top 10% (incl. 20% to top 1%)
- Does this imply that the structure of inequality is the same? Not necessarily.
- In UK-France 1910, inequality was largely based upon inherited wealth: « rentier society »
- In US 2010, inequality is more based upon labor income: « superstar society »
- But this is a matter of degree: concentration of inherited wealth is currently very high in the US, and is rising
### Inequality in France 1910-2010

<table>
<thead>
<tr>
<th>Shares in aggregate labor income or inherited wealth</th>
<th>Labor income 1910-2010</th>
<th>Inherited wealth</th>
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<tbody>
<tr>
<td><strong>Top 10% &quot;Upper Class&quot;</strong></td>
<td>30%</td>
<td>1910 90%</td>
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<tr>
<td>incl. Top 1% &quot;Very Rich&quot;</td>
<td>6%</td>
<td>2010 60%</td>
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<td>incl. Other 9% &quot;Rich&quot;</td>
<td>24%</td>
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<td><strong>Middle 40% &quot;Middle Class&quot;</strong></td>
<td>40%</td>
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### Inequality in America 1910-2010

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• Main difference btw US and Europe: aggregate wealth-income larger in Europe, bc higher pop growth in US

• Key mechanism: wealth-income ratio $\beta = \frac{s}{g}$
  If saving rate $s=10\%$ & growth rate $g=3\%$, then $\beta \approx 300\%$
  But if $s=10\%$ & $g=1.5\%$, then $\beta \approx 600\%$

• Back in 1800, the US was already a country where wealth mattered much less than in Europe: abundant land is worth less, so that new world had more land in volume, but less land in value
  (more precisely: wealth mattered less in the US if we neglect slavery system; complex legacy for US inequality)
Authors’ computations using country national accounts. Private wealth = non-financial assets + financial assets - financial liabilities (household & non-profit sectors)
Private wealth / national income ratios in Europe, 1870-2010

Authors' computations using country national accounts. Private wealth = non-financial assets + financial assets - financial liabilities (household & non-profit sectors)
Why did US top labor incomes rise so much?

- It is hard to account for observed cross-country variations with a purely technological, marginal-product story: technical change also occurred in Europe & Japan, so why inequality ↑ in US only?

- One popular view among some economists:
  - US today = working rich get their marginal product (globalization, superstars)
  - Europe today (& US 1970s) = market prices for high skills are distorted downwards (social norms, etc.)

→ very naïve view of the top end labor market…
& very ideological: we have zero evidence on the marginal product of top executives; it could well be that prices are distorted upwards
• A more realistic view: grabbing hand model =
  - marginal products are unobservable
  - top executives have an obvious incentive to convince shareholders & subordinates that they are worth a lot
  - no market convergence because constantly changing corporate & job structure (+ costs of experimentation → competition failure)

→ when pay setters set their own pay, there’s no limit to rent extraction... unless confiscatory tax rates at the very top

(memo: US top tax rate (1m$+) 1932-1980 = 82%)
Top marginal income tax rate applying to top income

U.S.  U.K.  Germany  France

• Explaining long run changes in inequality requires looking at political and cultural change
• As a country, the US has been « playing yo-yo » with the rich over the 20th century:
  - In the 1920s-1970s, the US invented steeply progressive income and estate taxation. One objective was to avoid the excessive wealth concentration associated to Europe.
  - In the 1970s-2010s, the US dismantled progressive taxation. One objective was to renew with govt-free 19\textsuperscript{c} US. « America is back ». Catch-up by Europe/Japan.

• Extreme concentration of labor rewards does not seem to be the best way to organize 21\textsuperscript{c} skill based economy
Summing up

• American inequality will keep its distinctive character as long as the US remains the New world, i.e. as long as population growth is much larger than Europe.

• … and if the US renews with its equal-opportunity tradition and institutions: massive investment in skills, progressive taxation to prevent excessive concentration of wealth and economic power.

• Otherwise the US inequality model can become the worst of all worlds: large concentration of wealth + large concentration of labor income + extremist meritocratic discourse putting pressure on losers.
Top Inheritance Tax Rates 1900-2011

- U.S.
- U.K.
- France
- Germany
Private wealth / national income ratios, 1970-2010

Authors' computations using country national accounts. Private wealth = non-financial assets + financial assets - financial liabilities (household & non-profit sectors)
Private wealth / national income ratios, 1970-2010 (incl. Spain)

Authors' computations using country national accounts. Private wealth = non-financial assets + financial assets - financial liabilities (household & non-profit sectors)
Authors' computations using country national accounts. Government wealth = non-financial assets + financial assets - financial liabilities (govt sector)
The changing nature of national wealth, UK 1700-2010

National wealth = agricultural land + housing + other domestic capital goods + net foreign assets
The changing nature of national wealth, France 1700-2010

National wealth = agricultural land + housing + other domestic capital goods + net foreign assets
The changing nature of national wealth, US 1770-2010

National wealth = agricultural land + housing + other domestic capital goods + net foreign assets

- Net foreign assets
- Other domestic capital
- Housing
- Agricultural land
The changing nature of national wealth, US 1770-2010 (incl. slaves)

National wealth = agricultural land + housing + other domestic capital goods + net foreign assets

Net foreign assets
Other domestic capital
Housing
Slaves
Agricultural land
The changing nature of national wealth, Canada 1860-2010

National wealth = agricultural land + housing + other domestic capital - net foreign liabilities

Net foreign liabilities
Other domestic capital
Housing
Agricultural land