

Finance, Growth & Opportunity

Implications for policy

Today, I will make three points

- 1) Finance matters for human welfare—beyond crises.
- 2) Financial innovation is associated with—arguably ***necessary*** for—sustained improvements in welfare.
- 3) Policy often ignore the implications of these views

Finance is powerful

But, is finance good or bad?

- “... banks have done more harm to the morality, tranquillity, and even wealth of this nation than they have done or ever will do good.” John Adams
- “ ... banks are the happiest engines that ever were invented for creating economic growth.”
Alexander Hamilton

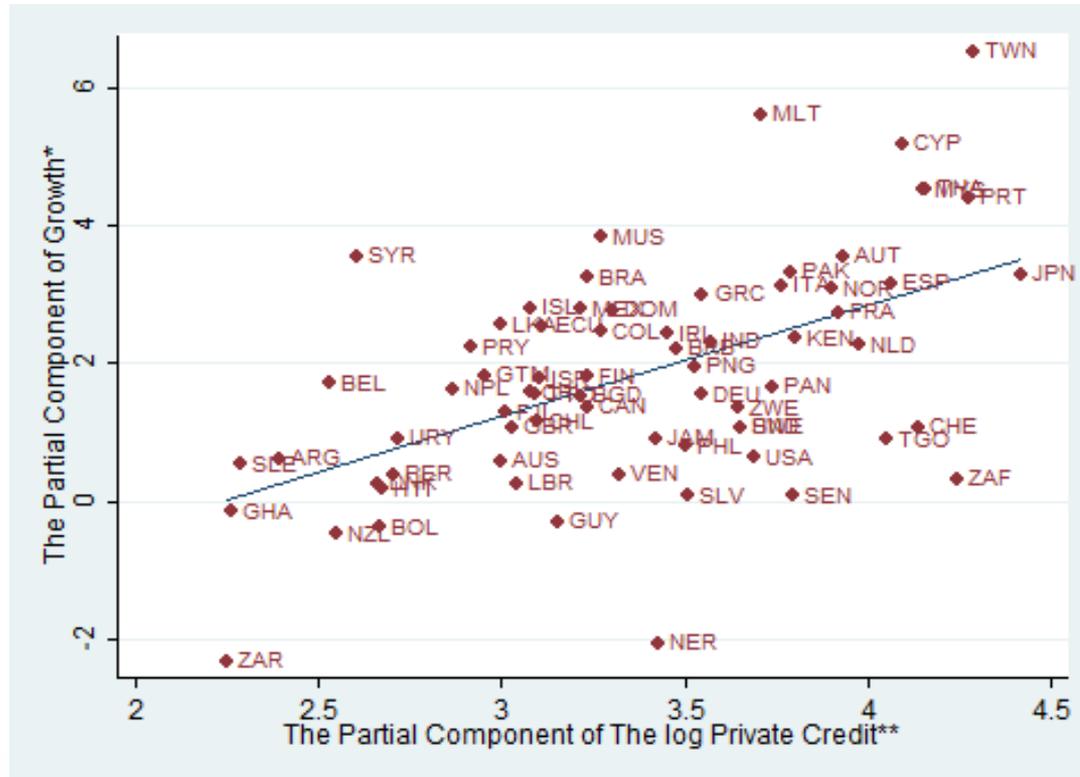
Of course, it depends

- Does it identify and fund the best projects—regardless of family wealth and connections
- Does it limit credit—and hence opportunity—to a few?

Some data ...

Cross-country and cross-state evidence

Finance and growth

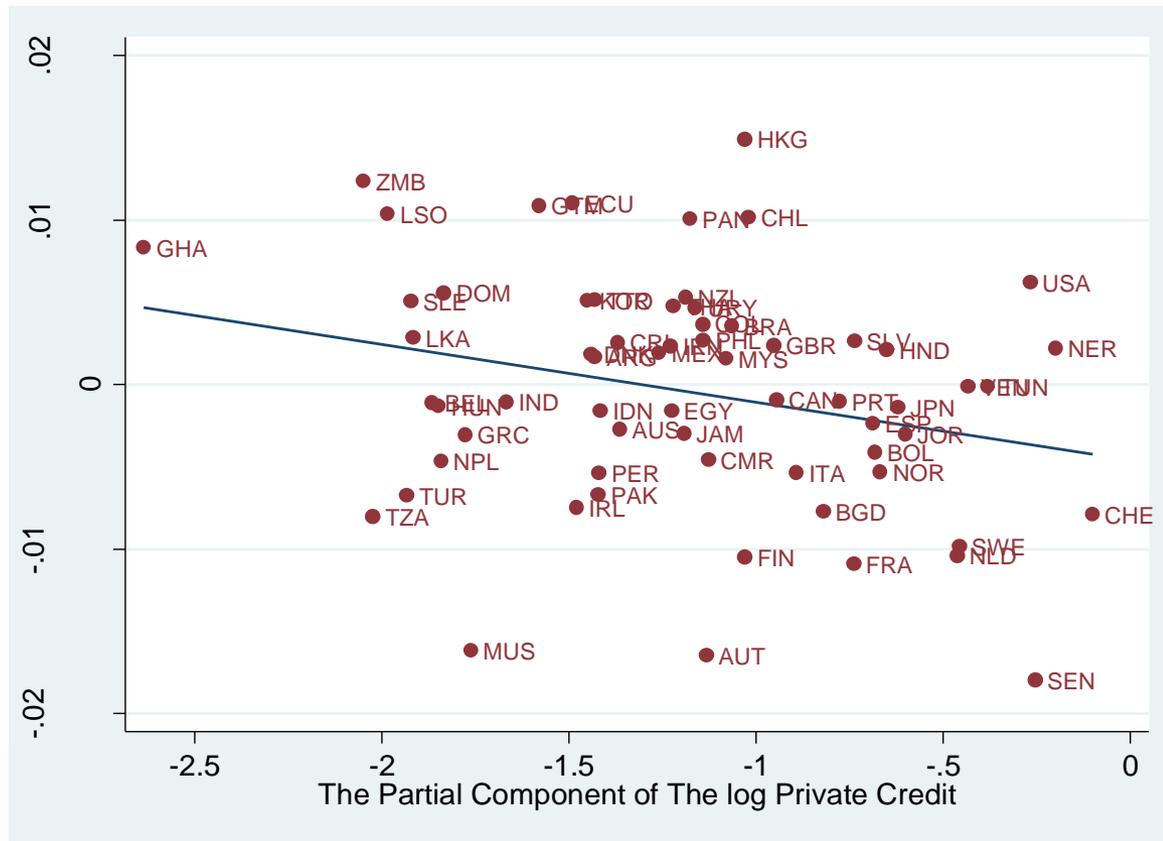


Notes: This is a partial scatter plot of the regression:

$$Growth = \beta_0 + \beta_1 \log(\text{Private Credit}) + \beta_2 X + \varepsilon,$$

where *Growth* is average real GDP per capita growth over the 1960 to 2005 period

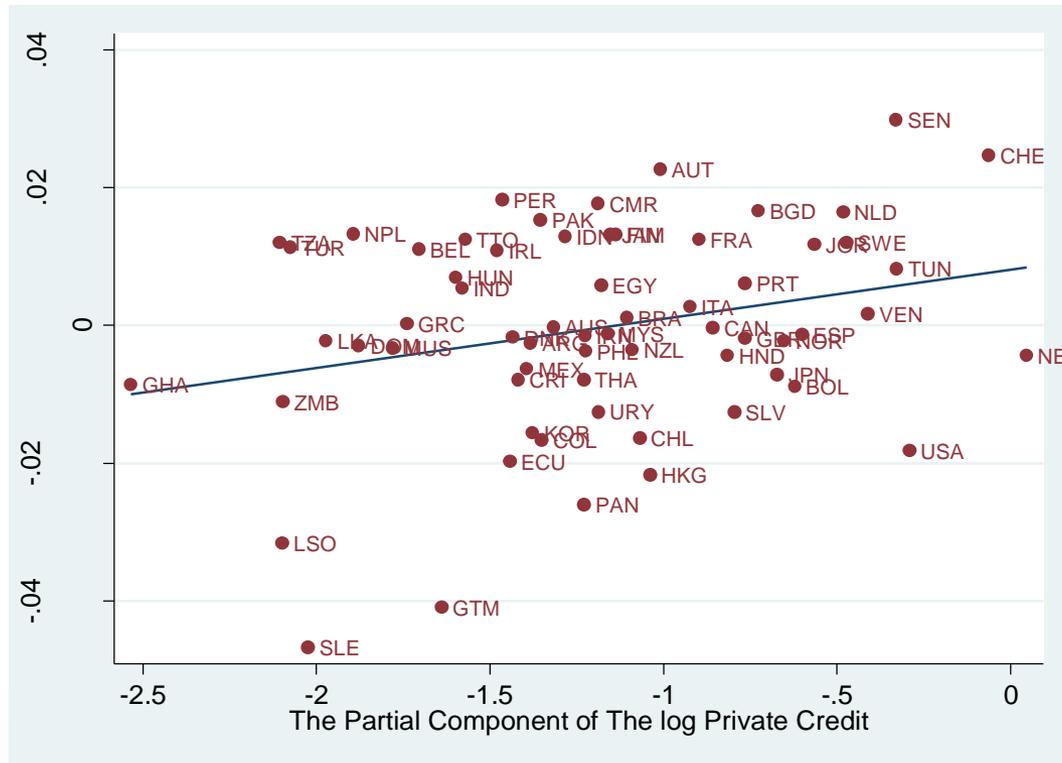
Finance and inequality



Notes: This is a partial scatter plot of the regression for the 1960-2005 period:

$$\text{Growth in the Gini Coefficient} = \beta_0 + \beta_1 \text{Log}(\text{Private Credit}) + \beta_2 X + \varepsilon.$$

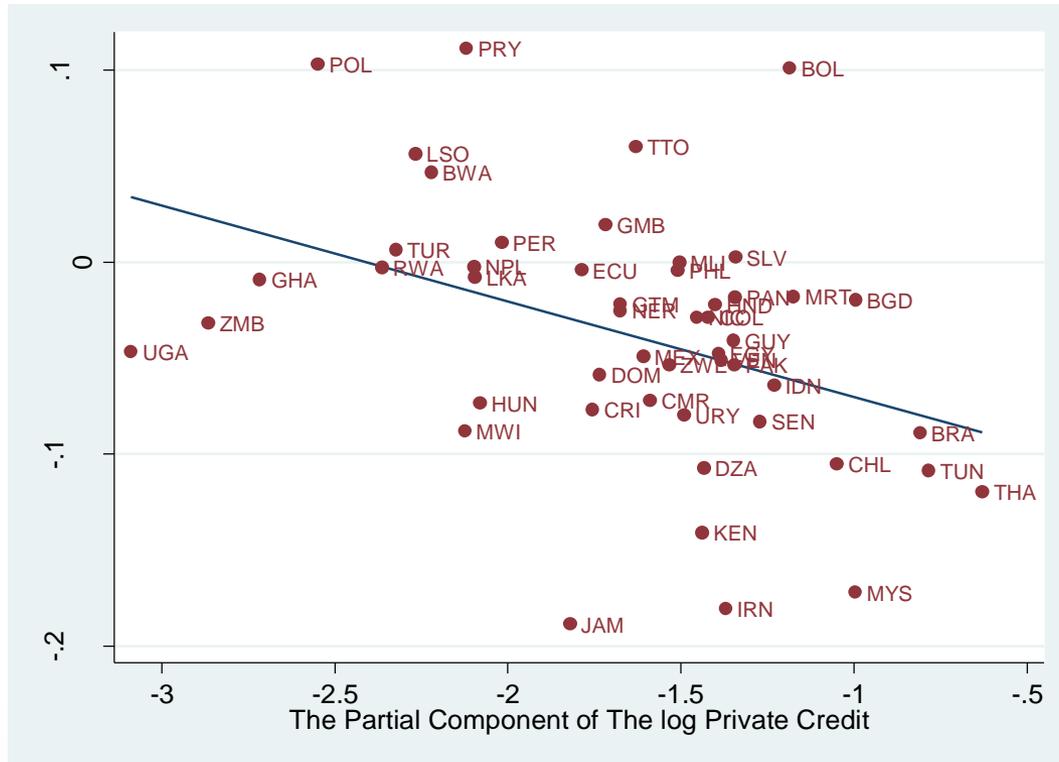
Finance and the poor



Notes: This is a partial scatter plot of the regression over the 1960-2005 period:

$$\text{Growth in the Lowest Income} = \beta_0 + \beta_1 \text{Log(Private Credit)} + \beta_2 X + \varepsilon.$$

Finance and poverty

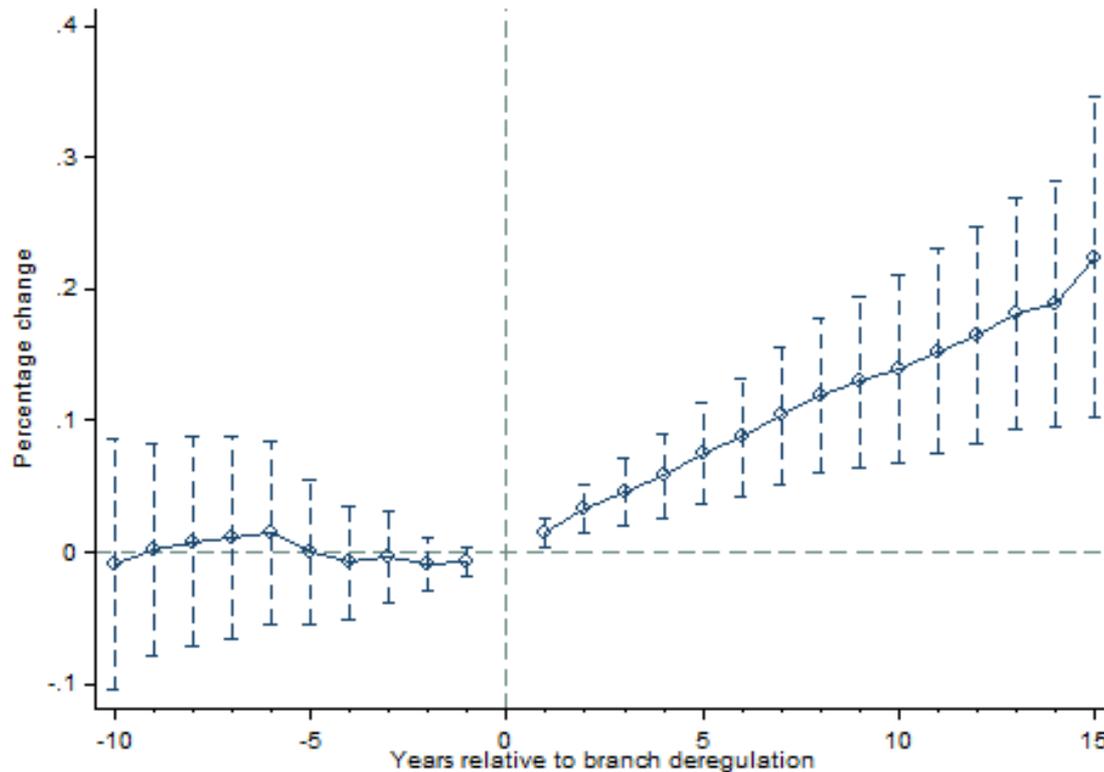


Notes: This is a partial scatter plot of the regression over the period 1980-2000:

$$\text{Growth in Headcount} = \beta_0 + \beta_1 \text{Log}(\text{Private Credit}) + \beta_2 X + \varepsilon,$$

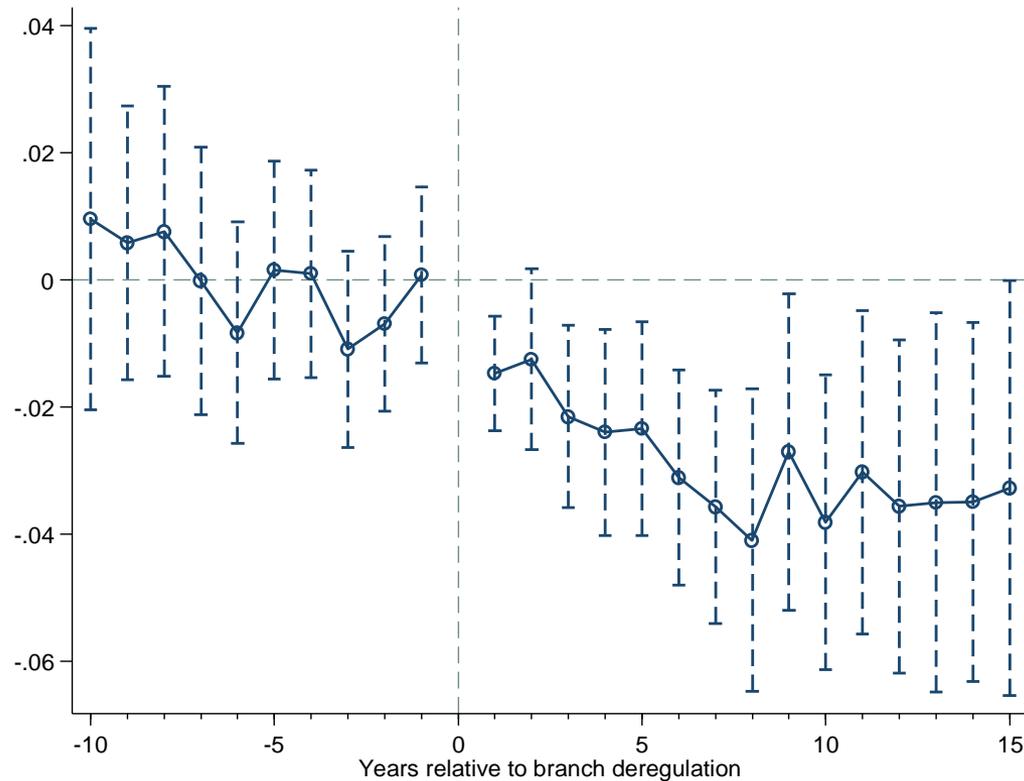
where *Growth in Headcount* is the growth rate of the percentage of the population living below \$2 dollar per day.

Finance and growth: U.S. States



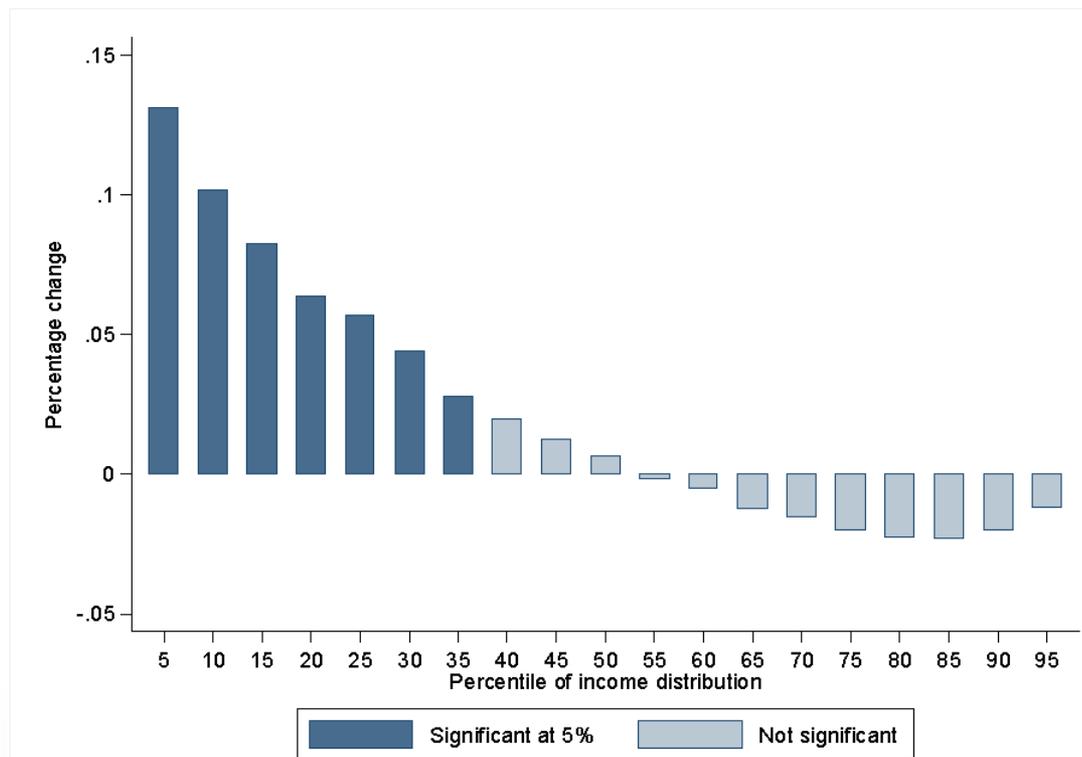
$$\log(\text{GSP})_{st} = \alpha + \beta_1 D^{-10}_{st} + \beta_2 D^{-9}_{st} + \dots + \beta_{25} D^{+15}_{st} + \mathbf{A}_s + \mathbf{B}_t + \varepsilon_{st}$$

Finance & income inequality: U.S. States



$$\log(\text{Gini})_{st} = \alpha + \beta_1 D^{-10}_{st} + \beta_2 D^{-9}_{st} + \dots + \beta_{25} D^{+15}_{st} + \mathbf{A}_s + \mathbf{B}_t + \varepsilon_{st}.$$

Finance & income distribution: U.S. States

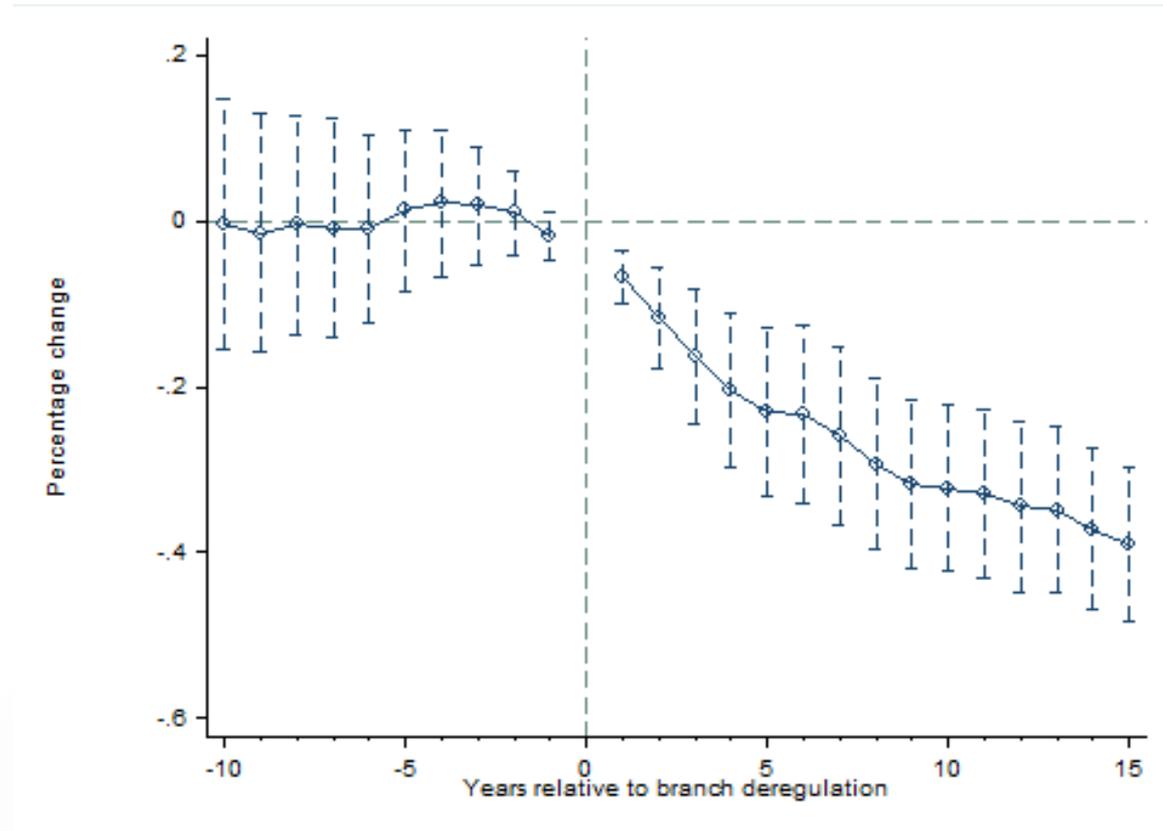


This reports the estimates of γ from 19 separate regressions of the following form:

$$Y(i)_{st} = \alpha + \gamma D_{st} + A_s + B_t + \varepsilon_{st}$$

where $Y(i)_{st}$ is the logarithm of i th percentile of income distribution in state s and year t .

Finance & unemployment: U.S. States



$$\log(\text{Unemployment})_{st} = \alpha + \beta_1 D^{-10}_{st} + \beta_2 D^{-9}_{st} + \dots + \beta_{25} D^{+15}_{st} + \mathbf{A}_s + \mathbf{B}_t + \varepsilon_{st}.$$

Finance matters beyond crises

- Finance influences:
 - Growth
 - income distribution, poverty, unemployment
 - Other work: entrepreneurship, education, racial discrimination, etc.
- Finance shapes the contours of each person's economic horizons.

Policy implications

- By shaping opportunities, finance generates winners & losers → powerful political reactions.
 - For example, U.S. in the 1970s – 1990s
 - For example, U.S. now
 - For example, all countries at all times
- Often the powerful do not want sound finance
- Many consequential regulatory defects reflect politics, NOT technical ignorance.

What about financial innovation?

Does finance facilitate creative destruction?
Or, destructive creations?

Both ...

- Financial innovation can both foster creative destruction and it can be a source of destruction.
- I will, however, propose the following ...

Financial innovation is *necessary* for prosperity

- The parallels with medical research are apt.
- Not all innovations are economically beneficial to social welfare.
- But, people will not enjoy sustained improvements to welfare without innovation.

There are many examples ...

- Oceanic explorations and modifications of business
 - from from partnerships to the *commenda*, and
 - from limited partnerships, to the joint stock company



There are more examples

- Initially, railways funded through local private equity since prominent local investors could monitor
- Reliance on local finance restricted growth.
- Problem → profit opportunity ...



Financial innovation was necessary for railroad expansion and improvements

- Specialized investment banks emerge to screen /monitor
- New financial and accounting reports help screening
 - Price, cost, repair, volume information available monthly
 - Then daily and hourly by the

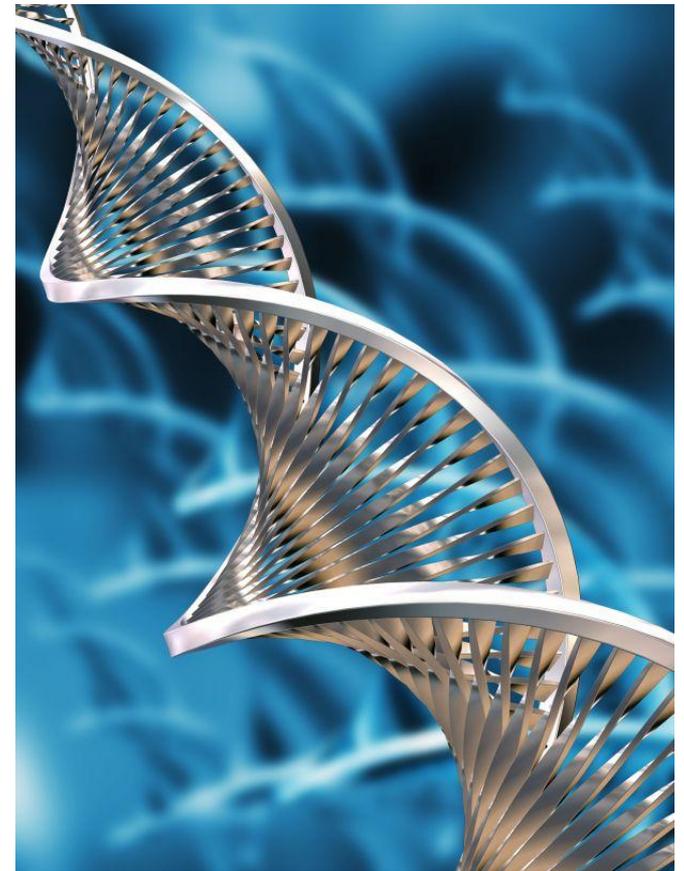


More recently...

- From IT and venture capitalism to ...



- ... to bio-technologies & ?



On financial innovation

- Technological change
 - is **the** major source of economic growth, including in developing economies
 - often requires finance to adapt, evolve, and innovative.
- Political, legal, & regulatory impediments to financial innovation can might thwart growth.
- Inflexible regulations systems can also causes crises, e.g., CDS and bank capital in the US.

Policy messages

- The policy challenge is more difficult than finding the right checklist of policies for two reasons:
 - 1) Policies must adapt and change as countries develop—it is necessarily a dynamic process.
 - 2) Even if we find the right checklist, politics is (arguably) a bigger impediment than technocratic expertise to creating a sound financial policy environment.