# **Economics from the Top Down**

new ideas in economics and the social sciences



AUGUST 30, 2021 BLAIR FIX

## With Great Power Comes Great Fear

Over the last year, I've watched with horror and amusement as health agencies around the world flip-flopped their advice on how to deal with COVID.

My horror comes from knowing this flip-flopping breeds mistrust in science. But I am (morbidly) amused because I know that uncertainty is a basic part of real research. For the public, 'science' tends to mean authoritative knowledge. But for researchers, 'science' is an iterative process, filled with wrong turns, new evidence, and revised ideas.

With COVID flip-flops in mind, I thought I'd tell you a story about science in progress. It's a story about how we should understand the stock market.

#### Three stories about the stock market

Here are three stories about how the stock market works.

The first story says that the stock market reflects the productivity of the underlying economy. When stocks go up, the thinking goes, everyone should celebrate because the tide of productivity is rising. This is the story that neoclassical economists believe.

The second story is that the stock market is actually disconnected from the 'real' economy, fluctuating in ways that have nothing to do with actual productivity. Stock prices represent 'fictitious capital'. This is the story Marxists believe.

The third story is that stock prices are neither about productivity nor are they 'fictitious'. They are about *power*. This is the hypothesis proposed by Jonathan Nitzan and Shimshon Bichler. The basic idea is that what capitalists really care about is not productivity. They care about *income*. Capitalists look at their income and then, through the <u>ritual of capitalization</u>, turn it into a lump sum — the capitalized value.

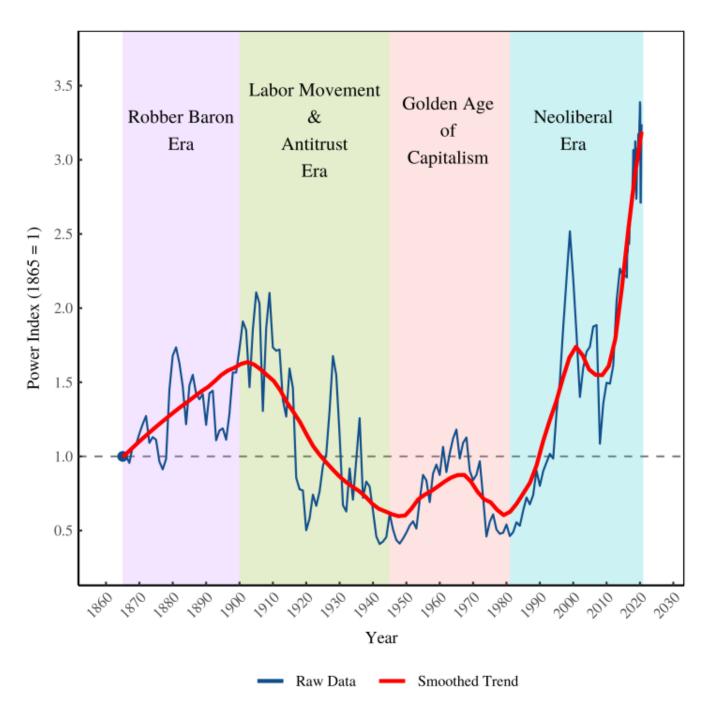
What's important, Nitzan and Bichler argue, is that capitalist income is a function of power — the power to wield property rights. Hence patent trolls earn income not by doing anything useful, but by enforcing their intellectual property. Likewise Microsoft earns income not by creating software, but by restricting its use. Of course you *can* produce things if you want. But unless you enforce your property rights, you won't earn income.

Back to the stock market. Bichler and Nitzan propose that we should understand the stock market in terms of capitalist power. When stocks go up relative to wages, that's a sign that capitalists have grown more powerful. Conversely, when stocks fall relative to wages, that's a sign that workers are winning the class struggle.

With this thinking in mind, Bichler and Nitzan propose a metric they call the 'power index' — the ratio of stock prices to the average wage:

# power index = $\frac{\text{stock index}}{\text{average wage}}$

Figure <u>1</u> shows the oscillations of the power index in the United States. (For an analysis of the trends, see <u>'Stocks are up.</u> <u>Wages are down. What does it mean?'</u>)



**Figure 1: Eras of capitalism, oscillations of power.** The blue line shows the power index in the United States. The red line shows the smoothed trend. The oscillations of the power index correspond with different eras of capitalism. Sources and methods are <u>here</u>.

#### The corollary of power is fear

When Peter Parker became Spider-Man, his Uncle Ben remarked:

With great power comes great responsibility.

That may be true. But Bichler and Nitzan think that something else also comes with great power: great fear.

Bichler and Nitzan hypothesize that as capitalists grow more powerful, they become more fearful about losing their grip on

power. After all, if you are at the apex of power, there is nowhere to go but down.

The idea that capitalists fear for their fortunes is nothing new. But what is new is that Bichler and Nitzan propose a specific way of *quantifying* this fear. The way to measure capitalist fear, they argue, is to look at how capitalists apply their ritual of capitalization.

The principle of capitalization is to put a present value on *future* income. To get capitalized value, we take (expected) future income and 'discount' it by some agreed-upon rate:

# capitalized value = $\frac{\text{future income}}{\text{discount rate}}$

The immediate problem for capitalists is that future income is unknown. So what should they do? Their answer is to invert the capitalization formula so that it looks at the *past*. With this inversion, capitalists calculate present value by discounting past incomes:

## capitalized value = $\frac{\text{past income}}{\text{discount rate}}$

Noting this inversion, Bichler and Nitzan propose that it can be used to measure capitalists' fear. The more fearful capitalists are, the more they will cling to the past rather than look to the (increasingly uncertain) future.

The way to measure capitalist fear, then, is to see how strongly stock prices correlate with past income. More specifically, Bichler and Nitzan correlate stock prices with earnings per share over a rolling window. They call the result the 'systemic fear index':

systemic fear index = stock prices  $\sim$  earnings per share

Since the resulting correlation fluctuates wildly in the short term, Bichler and Nitzan then take the rolling average to better see long-term trends.

If great (capitalist) power does bring great fear, the systemic fear index ought to rise and fall with the power index — Bichler and Nitzan's measure of capitalist power. Looking at the United States, Bichler and Nitzan find that this is exactly what has happened.

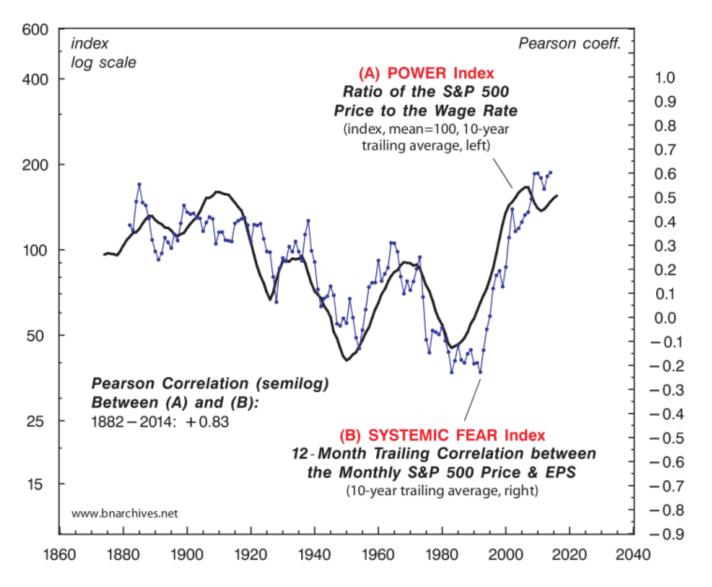


Figure 2: The power index and systemic fear index in the United States. This figure is from Bichler and Nitzan's paper <u>'A</u> CasP Model of the Stock Market'.

#### Perhaps capitalist fear is not systemic

Impressed by Bichler and Nitzan's findings, political economists Joseph Baines and Sandy Hager wanted to know if the results generalized beyond the United States. They assembled data to calculate both the power index and the index of systemic fear in France, Germany, Great Britain and Japan. Their results poured cold water on the concept of 'systemic fear'.

Baines and Hager found that in the countries they studied, the link between capitalist power and systemic fear was not nearly as strong as in the US. Figure <u>2</u> shows their data. Baines and Hager conclude that 'systemic fear' may not actually be 'systemic', meaning the concept may be less useful than Bichler and Nitzan claimed.

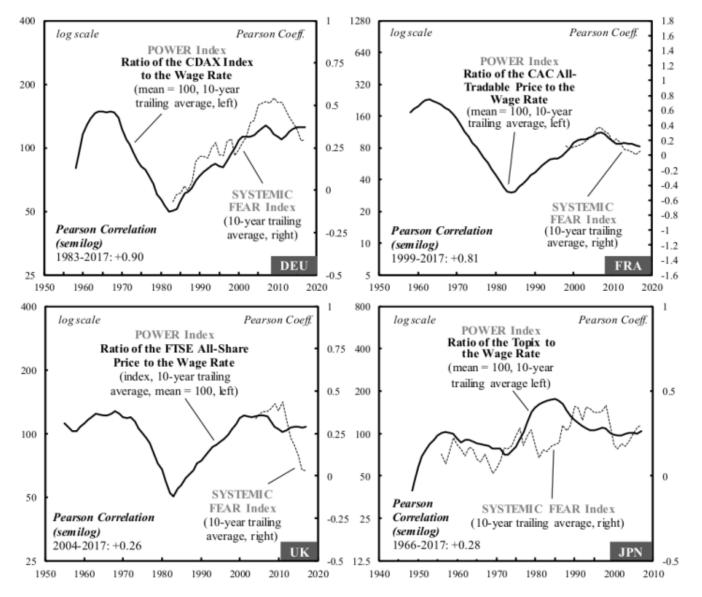
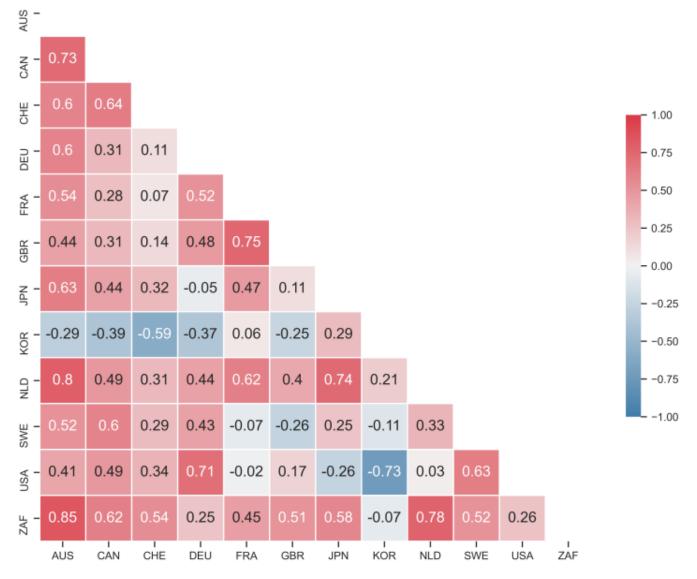


Figure 2: The power index and systemic fear in France, Germany, Japan and the UK. This figure is from Baines and Hagers's paper 'Financial Crisis, Inequality, and Capitalist Diversity'.

#### Systemic fear gets another look

Intrigued by Baines and Hager's results, James McMahon (who cut his empirical teeth <u>researching Hollywood</u>) recently took another look at the idea of 'systemic fear'. He was able to assemble a dataset that was both wider in scope (including 12 countries) and had greater historical depth than anything used before. With this more expansive dataset, McMahon subjected the idea of systemic fear to a bevy of tests.

First up was the idea that systemic fear might not be 'systemic'. To test this possibility, McMahon looked at how systemic fear correlated across countries. Figure <u>4</u> shows his resulting 'correlation matrix'. Each box shows the systemic-fear correlation between the respective countries on the x-y axes. Dark red indicates that the two countries 'co-experience' systemic fear. Dark blue indicates that they do not. Despite a few blue squares, what's clear is that systemic fear seems to be correlated across countries. In other words, it does appear to be 'systemic'.



**Figure 4: Cross-country correlation in the trends in systemic fear.** This figure is from McMahon's paper <u>'Reconsidering</u> <u>Systemic Fear and the Stock Market'</u>. Each box shows the systemic-fear correlation between the respective countries on the x-y axes.

Next, McMahon looked at the correlation between systemic fear and the power index. As with Baines and Hager, he confirmed that the correlation varies across countries. Still, all countries (for which data was available) had a positive correlation. In other words, as capitalists become more powerful, they seem to become more fearful.

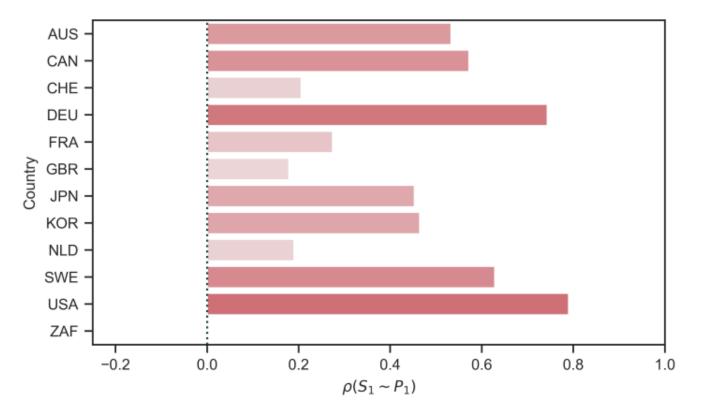
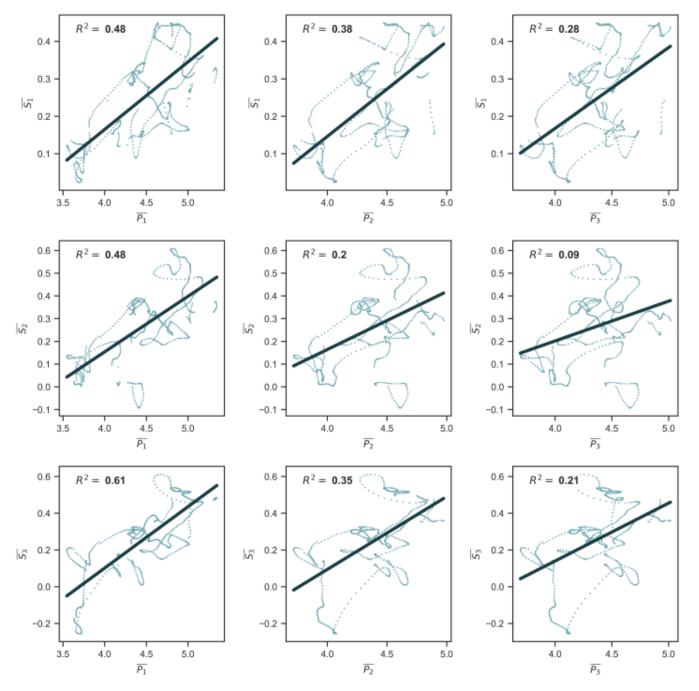


Figure 5: Correlation between systemic fear and the power index. This figure is from McMahon's paper <u>'Reconsidering</u> <u>Systemic Fear and the Stock Market'</u>. Bars indicate the correlation between the systemic fear and the power index. Because McMahon tests multiple versions of these metrics, he calls the original metrics  $S_1$  (systemic fear) and  $P_1$  (power index).

McMahon's last step was to see how the average trend in capitalist power (across countries) related to the average trend in systemic fear (again, across countries). Here he found a strong correlation, shown below. Interestingly, the correlation remained (albeit at lower levels) when he experimented with different ways of measuring systemic fear and capitalist power.



**Figure 6: Relation between 'expected' systemic fear and 'expected' capitalist power for all combinations of indices** This figure is from McMahon's paper <u>'Reconsidering Systemic Fear and the Stock Market'</u>. Each panel plots the relation between the cross-country average of the power index and the cross-country average of systemic fear. McMahon calls these two averages the 'expected' values. Each panel shows a combination of different metrics (power indices  $P_1$ ,  $P_2$ , and  $P_3$ ; systemic fear indices  $S_1$ ,  $S_2$ , and  $S_3$ ). See McMahon's paper for details.

#### Science in progress

Back to COVID shenanigans. Public health scientists are in the unenviable position of having their research subjected to intense public scrutiny. As the evidence changes, officials revamp their story, and the public balks. But unbeknownst to most people, this flip-flopping is how science always works. It's messy. It's uncertain. It's a work in progress.

Unlike COVID research, the study of how capitalist power relates to systemic fear is conducted largely in obscurity. In a sense,

that's good, because it means that when the facts change, researchers can alter their opinions without facing public ridicule. The downside is that this research cuts to the heart of our understanding of capitalism. And that ought to interest everyone.

Whether the corollary of capitalist power is systemic fear (and whether this fear is actual 'systemic') is an open question. Maybe you'll be the next one to roll up your sleeves and see what you find.

(And if you do roll up your sleeves, consider submitting your findings to the <u>Review of Capital as Power</u> (RECASP), a nondisciplinary journal committed to fostering debate about these types of ideas.)

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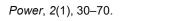
#### **Further reading**

Baines, J., & Hager, S. B. (2020). Financial crisis, inequality, and capitalist diversity: A critique of the capital as power model of the stock market. *New Political Economy*, *25*(1), 122–139.

Bichler, S., & Nitzan, J. (2016). A CasP model of the stock market. Real-World Economics Review, (77), 119–154.

McMahon, J. (2021). Reconsidering systemic fear and the stock market: A reply to Baines and Hager. Review of Capital as

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CAPITAL AS POWER POWER INDEX SYSTEMIC FEAR Uncategorized



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### 4 comments



jmc

AUGUST 30, 2021 AT 3:21 PM

Reblogged this on <u>notes on cinema</u> and commented: Blair Fix writes about some of my research. The subject is not directly related to cinema, but readers might be interested nonetheless.

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REPLY



Henny van Dongen SEPTEMBER 3, 2021 AT 10:15 AM

Dear Blair, How do you define 'systemic'?

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Blair Fix september 3, 2021 at 10:27 am

I haven't really thought about it. But James McMahon wrestles with the question in his

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## Weekend read – With great power comes great fear | Real-World Economics Review Blog

[...] Figure 1 shows the oscillations of the power index in the United States. (For an analysis of the trends, see 'Stocks are up. Wages are down. What does it mean?') [...]

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