

Lecture 7 - Low Interest Rates Macro, Long-run Keynesian, etc.

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Introduction

After the war, some Keynesian economists went as far as to consider that there was. . . . For example, the first model of growth was built by Harrod and Domar, which was a Keynesian economic growth model.

However, the period after the war was largely a period of full employment. Thus, the someber assessments of Keynesian economists had not seem to materialize. Solow [1956] argued in favor of assuming that saving would always be fully employed, in the sense that there would always be

1 J.M. Keynes

1.1 The General Theory (Keynes [1936])

1.2

2 Harrod - Domar Model

3 Solow Growth Model

3.1 Treasury View

3.2 Sticky Prices Economics

Paul Samuelson and Robert Solow built the neoclassical synthesis

4 Overaccumulation of Capital?

4.1 Overlapping-Generations Model

Allais [1947]

Samuelson [1958]

4.2 Malinvaud [1953]

Efficient accumulation of resources?

4.3

5 2008-2018: Back to long-run Keynesian?

5.1 Larry Summers' speech

Interestingly, Larry Summers reflects on what he was taught at MIT:

In 1991, before moving to the policy world, Larry Summers had written a pretty harsh critique of Phillips Curve based Keynesian economics.

I believe that he has a very strong point when he says:

I try to teach exactly the same things to graduates and undergraduates. I don't really understand why undergraduate macroeconomics and graduate macroeconomics should teach different truths. I encourage you to take a look at my undergraduate teaching notes here for a reminder on basic macroeconomic issues, which are not necessarily taught in the first year. In particular, you may not have heard about Say's law, the Paradox of Thrift, and other Keynesian concepts. However, these are hard to escape once one starts to think about business cycles.

6 Neoclassical Synthesis

I do believe that output can sometimes be demand-determined. However, I am quite skeptical that the neoclassical synthesis can explain everything. In particular, I think that the neo-classicals such as ?:

That these predictions were wildly incorrect, and that the doctrine on which they were based is fundamentally flawed, are now simple matters of fact, involving no novelties in economic theory. The task which faces contemporary students of the business cycle is that of sorting through the wreckage, determining which features of that remarkable intellectual event ealted the Keynesian Revolution can be salvaged and put to good use, and which others must be discarded.

Moreover, even Paul Krugman, an ardent proponent of the neoclassical synthesis, has acknowledged the fact that:

Axel Leijonhufvud, professor emeritus at UCLA, has written a book, called *On Keynesian Economics and the Economics of Keynes*, which is summarized in an AER P&P (Leijonhufvud [1967]) - if you do not know it, you should also read his masterpiece *Life among the Econ*.

That a model with wage rigidity as its main distinguishing feature should become widely accepted as crystallizing the experience of the unprecedented wage deflation of the Great Depression is one of the more curious aspects of the development of Keynesianism, comparable in this regard to the orthodox view that “money is unimportant” - a conclusion presumably prompted by the worst banking debacle in U.S. history. The emphasis on the “rigidity” of wages, which one finds in the New Economics, reveals the judgment that wages did not fall enough in the early 1930’s. Keynes, in contrast, judged that they declined too much by far. It has been noted before that, to Keynes, wage rigidity was a policy recommendation and not a behavioral assumption.

At some point, Paul Samuelson would confidently state that:

7 Say’s Law

8 Phillips Curve

One empirical support for the neoclassical synthesis

9 Long-run Keynesian theory

Following the neoclassical synthesis, mainstream macroeconomists usually think that the long run is the land of supply-side economics (the Solow growth model, capital accumulation, etc) while the short run is more uncertain. According to New-Keynesian economists, prices are sticky in the short run. According to new-classicals, prices are flexible to a first-order approximation.

10 Balanced growth

The one argument for Cobb and Douglas [1928] is that there is balanced growth. This is an extremely bad argument !

Labor augmenting technical change explains balanced growth just as well !

10.1 Harrod [1939] - Domar [1946] model of growth

Solow [1956] suggests that the long run is the “land of the margin.” However, at the time, in the thirties and forties, there were reasons to be pessimistic. Not so much during the 1960s, where financial crises had not yet happened.

Interestingly, Harrod-neutral technical change is labor-augmenting. Therefore, the Harrod-Domar model was perfectly aware of that potential issue. Thus, the typical argument in favor of a unitary elasticity, is on very shaky grounds.

The typical argument goes as follows: there has been a large increase in the marginal product of labor in the last century. At the same time, the interest rate has stayed roughly constant. Thus, w/r has risen. If the elasticity between capital and labor was low, then resources should have gone to capital. This has not happened (this is because simultaneously the productivity of labor has risen faster than capital)

$$\frac{wL}{Y} = 1 - \alpha$$

Moreover, the Keynesian view of the labor market has been based on sticky prices, rather than on a “paradox of thrift” view of growth.

the capital / labor ratio in the last century. (note this could be accounted for by land)

Against this backdrop, Flavien Moreau estimates a low elasticity of substitution between capital and labor.

The equations by Sargent: http://www.tomsargent.com/research/Harrod_tom_6.pdf

saving is proportional to national income:

$$S_t = sY_t$$

investment, the demand for saving, is proportional to the growth of national income,

$$I_t = g(Y_{t+1} - Y_t)$$

For example, this could arise because we have a fixed proportion production function, so that K_t is just proportional to output.

These conditions imply a necessary condition for the growth of output, compared to that of the saving rate, and the capital/ output ratio (which is, say, 6 in the United States)

Domar (1946) attained the same result in a different model, now often conflated with Harrod’s, and the same equation has recently reemerged as Piketty’s Second Fundamental Law of Capitalism.²

saving is proportional to national income

11 Impacts on taxation issues

Does **class income affect saving propensities**? The answer is necessarily yes.

If, then the rich can be taxed.

This all amounts to: why do the rich save in the first place? Utility for wealth == there is a Pareto improvement in this case. Public debt is a way for them to “feel rich”, while at the same time

Thrift is good for society Culture too

However the big issue with public debt is

Paper of Jean Baptiste Michau.

According to neoclassical economics, income taxation must strike a balance between equity and efficiency. Redistributing income leads to efficiency losses, as it diminishes workers' incentives to produce income in the first place. Income redistribution leads to lower output, but also to output that is distributed more equally. According to the first welfare theorem, a market economy leads to a Pareto optimal outcome: it is impossible to make someone better off without making someone else worse off. This basic equity-efficiency trade-off is pervasive in the political debate and underlies much of modern public economics, following Mirrlees [1971].

However, Keynesian economics provides a mechanism through which more redistribution might actually increase output overall, at the same time as it reduces inequality. The idea that the economy suffers from a shortage of aggregate demand coming from increases in inequality has been put forward recently by mainstream academics such as Raghuram Rajan, former chief economist of the IMF, and now governor at the Bank of England (Rajan [2010]), as well as by Robert Reich, US Secretary of Labor from 1993 to 1997 (Reich [2011]).

This was noted by Minsky [1976]:

Although class ideas with respect to consumption are alluded to in *The General Theory*, and although class income affects the saving propensities in the work of Keynesian economists, such as N. Kaldor and J. Robinson, in general in the mainstream Keynesian literature the law for the determination of the surplus (i.e., the consumption function) treats income as a homogeneous glob in determining consumption behavior.

Is income a homogeneous glob in determining consumption behavior? The answer is: no ! Whether the rich or the poor have a higher marginal propensity to consume. . .

12 Keynesian Growth

In the 1990s Solow [1956]

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