How Declining Dynamism Affects Wages

Jay Shambaugh, Ryan Nunn, and Patrick Liu
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A CHAPTER FROM THE FORTHCOMING HAMILTON PROJECT BOOK

Revitalizing Wage Growth
Policies to Get American Workers a Raise

One simple question—are wages rising?—is as central to the health of our democracy as it is to the health of our economy. For the last few decades, the U.S. economy has experienced real wage stagnation. Without rising wages, the dreams of American families to live in good homes, to support their families, to retire comfortably, and to see their children do better—what we call the American Dream—simply cannot be realized. By raising productivity growth and strengthening worker bargaining power, we can create a faster-growing and more-dynamic economy that will benefit all workers over the long term.
Abstract

Wages have stagnated in recent decades for typical workers. While a number of economic, policy, and technological developments bear some responsibility, economists have grown increasingly concerned that declining dynamism is an important cause. The decline in dynamism encompasses the various ways in which workers and entrepreneurs have become less likely to explore new patterns of economic activity: starting new, fast-growing businesses; switching jobs; and moving across the country. As these activities diminish, both productivity growth and worker bargaining power suffer, limiting workers’ opportunities and damaging wage growth. Improving the ability of workers to switch jobs could thus improve both their wages and their productivity. Declining dynamism may suggest a role for public policy in establishing the conditions for workers to successfully climb the job ladder.

Introduction

Wage growth relies on rising productivity of labor—doing more with less—as well as workers’ ability to bargain for their share of the gains. Many changes in the U.S. economy ranging from shifts in labor market competitiveness to technological change and globalization have contributed to stagnant wage growth for some workers. While some of these developments have predominantly affected either worker bargaining power or productivity growth, what is often called declining dynamism has been a serious problem for both.

The decline in dynamism encompasses the various ways in which workers and entrepreneurs have become less likely to explore new patterns of economic activity: starting new, fast-growing businesses; switching jobs; and moving across the country. This can affect wages in a variety of ways. First, declining dynamism appears to put downward pressure on productivity growth because it slows the replacement of unproductive firms with productive firms (Decker et al. 2014a). Impediments to job creation and destruction, which are at least partially responsible for recent declines in dynamism, also lower productivity growth by slowing the reallocation of workers to more productive firms (Decker et al. 2018). In turn, falling productivity growth can negatively impact wage growth in both the short run and the long run (Stansbury and Summers 2017).

Second, declining dynamism directly reduces wages by limiting the frequency with which workers receive outside offers and make wage-enhancing job transitions (Haltiwanger et al. 2017a). Thus, the goals of increased worker bargaining power and increased labor productivity should not be viewed as in opposition to each other, but can in fact both be achieved when labor market dynamism is enhanced.

Declining Labor Market Dynamism

One of the most direct measures of declining labor market dynamism is the rate of job creation. Job creation combines the employment gains at new and growing establishments. While there has been some cyclical fluctuation, job creation as a share of employment has been on a long downward trend since the early 1990s (figure 1a). At the same time, workers are increasingly less likely to switch jobs (figure 1b). This decline matters for wage growth. First, at least one-third of all hires are made among those already employed (Karahan et al. 2017), suggesting that job switching is a major part of how workers’ careers evolve. Second, part of the decline in hiring comes from the decline in job switching. Indeed, more than 40 percent of the decline in hires and separations can be ascribed to declining job-to-job transitions (Hyatt and Spletzer 2013). Given that workers generally receive a raise when they transition directly from one job to another, declining job switching has put downward pressure on wage growth.

These are not the only statistical measures showing declining flexibility in the U.S. labor market. There have been substantial declines in dynamism—sometimes referred to as labor market fluidity—across a variety of related measures. When job creation, job destruction, job switching, interstate migration, and other indicators of fluidity are combined, Molloy, Smith, Trezzi, and Wozniak (2016) find that labor market fluidity has been on a downward trend since at least the 1980s, and has fallen by 10 to 15 percent since the 1990s.
Wage Growth for Movers

The link between dynamism and wages is apparent in the wage growth that occurs when workers switch jobs to accept a better offer. That link is also evident in the wage growth induced by more-abundant job opportunities for workers. When workers receive more job offers, employers must increase wages to retain their workforce (Moscarini and Postel-Vinay 2016).

Figure 2 shows median and mean earnings growth over the course of a year for workers who stayed with the same employer (0 and 1.3 percent, respectively), for those who switched jobs but remained within the same state (3.7 and 7.6 percent, respectively), and those who switched jobs and moved across state lines (8.0 percent and 8.2 percent, respectively). These estimates, calculated using data from the Survey of Income and Program Participation, are smaller than those calculated for earlier periods using other data (Hyatt et al. 2016), but similar in finding much weaker earnings growth for job stayers than for job movers, whether within the state or interstate.

Job switching has a large impact on aggregate wage growth, with job-to-job moves responsible for total earnings gains of about 1 percent per quarter (Haltiwanger et al. 2017a). Because it is unlikely that all workers will find the best possible match in their first job, models of so-called job ladders assume that workers will search for new jobs while employed, and the resulting job-to-job transitions will increase both wages and productivity. Haltiwanger et al. (2017a) find that, on net, high-wage firms poach from low-wage firms, implying that an important part of wage growth comes from job-to-job transitions. Other work finds that a 1 percentage point increase in the probability of job switching is associated with 2.4 to 5.0 percent higher earnings (Karahan et al. 2017).

In addition to job switching, geographic migration is considered an important facet of labor market dynamism. Interstate migration has fallen dramatically since at least the early 1980s (Molloy et al. 2016). This is potentially worrisome for at least two reasons: first, migration is one way that many workers find labor market opportunity and achieve higher wages. In 2017 about half of interstate moves were for labor market reasons (BLS 1981–2017; authors’ calculations). Moreover, residential moves that correspond with interstate employer-to-employer transitions have declined by nearly half between 2000 and 2010 (Hyatt et al. 2016).

Second, migration to areas with relatively plentiful job opportunities and higher productivity has been an important mechanism by which labor markets equalize incomes across regions. In the classic view of the U.S. economy, workers leave low-wage or weak labor market regions for those with better job prospects. With declining mobility, this feature of the U.S. economy has been waning. By one calculation, the large increase in hourly wage inequality that occurred between 1980 and 2010 would have been 8 percent smaller if wages paid in U.S. regions had continued to converge at the rate they did from 1940 through 1980 (Ganong and Shoag 2017).
Thus far, we have characterized some of the most important ways in which labor market dynamism has declined, examining job creation and destruction, interstate migration, and job switching. We now turn to some explanations for the decline.

DEMOGRAPHIC EXPLANATIONS

One important possibility is that the aging of the U.S. population was partially or wholly responsible for declining dynamism. Understanding the extent to which age and other demographic factors can account for declining dynamism is important for understanding the root causes, and, potentially, for addressing those causes.

Demographic, Economic, and Policy Explanations for Declining Dynamism

Figure 3a shows the long-run decline in the rate of interstate migration since 1981. Notably, the decline—from a peak of 3.8 percent in 1990 to 2.1 percent in 2017—precedes the Great Recession. In some cases, migration might lead to large wage gains. Figure 3b shows results from a study by Emi Nakamura, Jósef Sigurdsson, and Jón Steinsson (2017). Nakamura and her coauthors examine the earnings effects of involuntary migration that resulted from damage caused by a volcanic eruption in Iceland in 1973. For people 24 years old and younger (though not for older workers) who were forced to move after their houses were destroyed, later-life earnings were considerably higher than they were for their counterparts who were able to stay. The authors report that, for an 18-year-old, the net present value of lifetime earnings was roughly $440,000 higher. Despite the disruption caused by the volcanic eruption, and the fact that the affected town was relatively high income, wages increased when workers were compelled to seek out their comparative advantage and consider a broader array of labor market opportunities (Nakamura, Sigurdsson, and Steinsson 2017). Certainly, migration does not always lift wages. In particular, it might not do so if a person moves to an area to accompany a spouse or for some similar non-job-related reason. However, the estimates shown in figure 3b are evidence that in some cases movement by young workers helps them find higher wages.

FIGURE 2.
Median and Mean Earnings Growth, by Mobility Status

Note: The sample is restricted to workers ages 25 to 54 who worked at least 35 hours per week. Earnings growth is calculated between January 2013 and December 2013.
25 to 34 are more than twice as likely to switch jobs directly as are workers aged 45 to 54, and younger workers are more likely still (U.S. Census Bureau 2000–16; authors’ calculations).4

However, the aging of the population has played a limited role in driving declines in interstate migration, job switching, and similar measures (Hyatt et al. 2016; Hyatt and Spletzer 2013; Kaplan and Schulhofer-Wohl 2017; Molloy, Smith, and Wozniak 2014).5 In other words, declines in these measures of dynamism have largely occurred within age groups. Other demographic changes—shifts in educational attainment, race, marital status, and presence of young children—do not appear responsible for the decline in migration or job-to-job flows (Hyatt and Spletzer 2013; Molloy, Smith, and Wozniak 2014).

**ECONOMIC EXPLANATIONS**

Over the decades the structure of the economy has changed in ways that could be relevant to dynamism. One possibility is that changes in the geographic distribution of work have affected migration, though not necessarily job switching. As regions of the country became less specialized in the goods and services they produce, workers had a diminished incentive to migrate, potentially explaining around half of the decline in interstate migration (Kaplan and Schulhofer-Wohl 2017). In the past, to work in a given industry people sometimes needed to move to the city that concentrated in that industry. As the industrial profile across regions has become increasingly similar, though, more options may be available in any given region, requiring fewer workers to move.

Scholars have studied a number of other possible drivers related to economic fundamentals. These include the rise of dual-earner households, which may have more difficulty migrating to reach economic opportunity; and rising homeownership rates, which could tie workers more firmly to specific locations. Perhaps surprisingly, dual-earner households did not become more common in the 2000s as compared with the 1980s. In addition, migration of renters fell alongside migration of homeowners (Molloy, Smith, and Wozniak 2014). Neither explanation appears able to account for declining migration.

Another interesting possibility is that the most productive workers are increasingly closely matched, early in their careers, with the most productive employers. This could reduce the need for job switching and migration (Molloy, Smith, and Wozniak 2014) as well as entrepreneurship (Kozeniauskas 2017). If the most productive of the large, established firms are now more likely to employ the workers who—in previous generations—would otherwise have started businesses, it may be that some or all of the innovative activities are now occurring in those established firms. These innovative workers would presumably be well matched with the firms, receiving
high wages and experiencing less incentive to switch jobs or start businesses. However, this account is difficult to square with the stagnation many workers see in early-career wages, as described in an upcoming Hamilton Project Proposal by economist Fatih Guvenen; it is also inconsistent with the fact that average within-firm labor productivity growth has been flat over the 1997–2013 period. In recent decades the largest firms have actually become less likely to generate high rates of productivity growth (Decker et al. 2017).

Depending on the particular measure of dynamism being considered, different policy factors are more plausible as explanations. For example, occupational licensing rules are generally defined at the state level, with little or no reciprocity across states. This impedes mobility across state lines without reducing it within state boundaries. Importantly, however, none of the potential policy explanations has been conclusively shown to account for the bulk of the decline in dynamism.

**POLICY EXPLANATIONS**

The labor market is structured with rules and institutions created by state and federal policymakers. Many of these policies affect workers’ willingness to switch jobs or migrate, often by raising the costs to such movement. Research into these effects is still at an early stage, but some policies have been linked to diminished dynamism. Occupational licensing may have made it more difficult for a worker to continue their career in a different location (Johnson and Kleiner 2017) or to start a career where licensing restrictions are unnecessarily onerous. Other labor market regulations can raise the costs of hiring or firing in ways that may limit job transitions (Autor, Kerr, and Kugler 2007; Davis and Haltiwanger 2014). Non-compete contracts make it much harder for workers to switch jobs within a given industry or to start their own firm if that firm could be considered a competitor of their current employer (Starr, Prescott, and Bishara 2016). Finally, land-use restrictions can limit geographic mobility directly by reducing the degree to which housing supply responds to changes in demand for labor (Ganong and Shoag 2017).

The decline in firm creation affects worker outcomes because young firms play a crucial role in generating new employment, which can in turn create better outside options for workers. This role is due in part to the up-and-out dynamics of start-ups, which drive a considerable amount of hiring. Although the median young firm generates almost no employment growth, a small fraction of young firms exhibit high rates of growth. More than two-thirds of gross job creation is accounted for by start-ups and high-growth firms (Decker et al. 2014a).

The Fall in Start-ups

We cannot understand worker mobility—across jobs and places—in isolation. Declining firm dynamism has been the other side of the labor market coin. One of the most striking examples of such decline is the fall in the firm destruction and start-up rates (Pugsley and Şahin 2015). The latter in particular has fallen quickly over the past several decades, as shown in figure 4.

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Overall, the decline in young firms accounts for 32 percent of the decline in job creation and 26 percent of the decline in job reallocation (Decker et al. 2014b) from the late 1980s through the mid-2000s. This is evident in the markedly reduced employment shares of firms founded after 2000, shown in figure 5. This figure is drawn from work by Ryan Decker, John Haltiwanger, Ron Jarmin, and Javier Miranda (2016). The 2000s cohort of new publicly traded firms was smaller, slower growing, and less volatile than previous cohorts. By one calculation, the most recent (post-2000) fall in dynamism has been predominantly driven by this reduced contribution of young, fast-growing firms. This post-2000 decline has been especially worrisome, given its association with falling high-tech and high-growth entrepreneurship, in contrast with earlier reductions in start-up rates that were more associated with productivity-enhancing consolidation in retail trade and services (Decker et al. 2016; Guzman and Stern 2016).

The causes of the declining firm entry rates have not been clearly established. Increasing market power of incumbent firms, shifts in demographics or risk attitudes, and policy barriers to entrepreneurship are all possibilities. Some of the decline in the start-up rate could be a direct consequence of declining population growth and labor force growth (Karahan, Pugsley, and Şahin 2016). This explanation does not rely on population aging and the lower entrepreneurship rates of older individuals. Rather, the diminished growth in the supply of labor might have reduced the scope for new businesses to start and scale up. However, this explanation is inconsistent with the declining fraction of entrepreneurs in the population: entrepreneurs are becoming scarce even relative to available labor (Kozeniuskas 2017). Regardless of how demographic change is affecting entrepreneurship, the decline in start-ups could lower workers’ wages.

PRODUCTIVITY AND FIRM AGE

In addition to being associated with greater hiring, young firms may be associated with some of the most important innovations (Acemoglu et al. 2017) and consequently growth in economic activity. Compared to older firms, young firms experience sharply higher productivity growth. Using calculations by Titan Alon, David Berger, Robert Dent, and Benjamin Pugsley (2017), figure 6 shows the labor productivity growth associated with firms of different ages. By six to ten years after their founding, businesses generate, on average, essentially no productivity growth. At one year of age, productivity growth is around 15 percent. This age-productivity relationship was largely stable from the mid-1990s through the early 2000s (Alon et al. 2017).

It is not entirely clear what accounts for this relationship. One possibility is that entrepreneurs differ from the outset in their inclination to engage in transformational or subsistence activities, in the language of Schoar (2010). Subsistence entrepreneurs aim to support their families with a new business, but do not attempt to expand their business or hire many additional workers. By contrast, transformational entrepreneurs intend from the beginning to build a larger business, though they are only sometimes successful in this aim.
Combined with the rapid exit of unsuccessful transformational start-ups, the rapid growth of successful start-ups generates high employment (Haltiwanger et al. 2017b) and productivity growth (figure 6). As the businesses age, the boost to productivity induced by creative destruction—productive firms replacing unproductive firms—diminishes quickly (Alon et al. 2017). This creative destruction is mirrored at the job level, where reallocation of jobs from less-productive to more-productive firms accounts for a large fraction of annual productivity growth (Foster, Grim, and Haltiwanger 2016).

**THE IMPACT OF THE DECLINING START-UP RATE**

Given the strong association between start-ups and desirable economic outcomes, it is reasonable to be concerned that the falling start-up rate has negatively affected productivity and wage growth. One estimate is that declining start-up rates—and the implied aging of firms—lowered productivity growth by more than 0.1 percent per year from 1980 to 2014 (Alon et al. 2017).

The missing start-ups had other economic implications as well. Much of the slowdown in trend employment growth over the past three decades can be ascribed to falling firm entry (Pugsley and Şahin 2015). One additional effect of the decline in start-ups—and consequent aging of firms more generally—is reduced volatility of employment over the business cycle. For a macroeconomic shock of constant magnitude, the responsiveness of employment is now about 10 percent lower than it was in the late 1980s (Pugsley and Şahin 2015). While this could reduce job losses in recessions, it could also contribute to the recent problem of so-called jobless recoveries.

**What Does Declining Dynamism Mean for Policy?**

The search for explanations of declining dynamism is ongoing, and future research is likely to change our view of the most important factors that have driven the trends discussed in this chapter. The relative importance accorded to demographic, economic, and policy factors may vary, but the simple facts of falling start-up rates, diminishing job switching, and declining migration imply concerns about wage growth that merit policymaker attention.

Wage growth has stagnated in recent decades for a large share of workers. At the same time, declining rates of job change mean that workers are not accessing this historical engine for wage growth. Together, these trends suggest a role for public policy in raising the return to work and establishing the conditions for workers to successfully climb the job ladder and achieve career progress. Doing so entails human capital investments before and during labor market engagement.
But it also means eliminating or mitigating unnecessary policy barriers to dynamism. For example, there is no strong policy rationale for the lack of reciprocity in states’ occupational licensing requirements. Rationalizing and modernizing such rules might not return dynamism to its previous levels, but it could be a part of an effective overall policy response.

More generally, policies to enhance worker mobility will promote wage growth through two channels: increased productivity associated with better worker–firm matches, and increased worker bargaining power that comes from a more credible and attractive set of outside job offers. Policies or developments in the economy that have reduced the extent to which workers can change jobs will leave them with less ability to bargain for gains, but may also leave workers in suboptimal jobs, thereby limiting both their wages and their productivity. Thus, some policies that seem to be oriented simply toward raising worker bargaining power might in fact also raise productivity through additional mobility and better matching of workers and firms.

Many proposals in this volume could be considered in this light. Proposals that aid mobility, limit non-compete clauses, or limit employer collusion would all likely enhance workers’ ability to bargain for wage gains, but they could also boost productivity growth if they help mitigate longstanding downward trends in dynamism.
Endnotes

1. Job switches are defined as a change in main job in the second week of December from the main job held in the second week of January. Interstate moves are defined as a change in state of residence in December from the state of residence in January. A worker’s main job is identified as the job from which they receive the highest weekly wage/salary earnings, conditional on having worked 35 or more hours on the job for that week. Means are winsorized at the 5th and 9th percentiles.

2. These estimates could overstate the importance of job switching if the only workers to receive outside offers were the most productive workers; in that case, their wage gains would not be representative of the benefits of switching for workers more generally. In addition, estimates for interstate job switchers were based on a relatively small number of observations.

3. These moves of workers up the wage ladder slow noticeably during recessions, supporting two ideas: dynamism rises when the economy is expanding, and wage growth is supported by full employment. See also Molloy and Wozniak (2011), as well as the contribution by Jared Bernstein in this volume.

4. Interestingly, after year 2000 younger workers in particular have become less likely to switch jobs (Molloy et al. 2016; U.S. Census Bureau 2000–16 [authors’ calculations]).

5. It is important to note that there could be larger indirect impacts of population aging if firms respond by directing more of their recruiting efforts to local labor markets (Karahan and Li 2016).

6. The growth potential of start-ups is highly variable, with a small fraction of them accounting for the large majority of employment and economic growth; moreover, this growth potential differs over time and across regions (Guzman and Stern 2016).

References


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Abstract

Wages have stagnated in recent decades for typical workers. While a number of economic, policy, and technological developments bear some responsibility, economists have grown increasingly concerned that declining dynamism is an important cause. The decline in dynamism encompasses the various ways in which workers and entrepreneurs have become less likely to explore new patterns of economic activity: starting new, fast-growing businesses; switching jobs; and moving across the country. As these activities diminish, both productivity growth and worker bargaining power suffer, limiting workers’ opportunities and damaging wage growth. Improving the ability of workers to switch jobs could thus improve both their wages and their productivity. Declining dynamism may suggest a role for public policy in establishing the conditions for workers to successfully climb the job ladder.

FIGURE 1A.
Private Sector Job Creation Rate, 1994–2017

Note: Data are quarterly and seasonally adjusted. Shaded bars indicate recessions.

FIGURE 1B.
Job Switching Rate, 1994–2017

Source: Fallick and Fleischman 2004; authors’ calculations.
Note: Data are the 12-month centered moving average of monthly employer-to-employer flows expressed as a hazard rate. Employer-to-employer transitions occur when a worker switches employment without a spell of nonemployment in between. Shaded bars indicate recessions.