Buyouts with Payouts: The Impacts of Private Equity on Workers and Owners*

Adam Isen, Johns Hopkins University
Jordan Richmond, University of Maryland
Matthew Smith, U.S. Treasury Department
Constantine Yannelis, University of Cambridge

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Abstract

We link private equity (PE) buyouts to comprehensive U.S. tax data to explore the impacts of PE on employee and firm owner outcomes. We find PE buyouts lead to employment and earnings drops among incumbent employees that reverse within a decade. Substantial and persistent negative effects are only evident for older workers, higher-wage workers, and managers, consistent with some models of how PE generates value for shareholders. A significant portion of these large negative impacts among specific groups of workers are driven by owner-employees that realize extremely large capital gains in the year of the buyout while experiencing large and persistent decreases in earnings. There is little evidence of follow-on entrepreneurship among bought-out owners, and instead we see persistent declines in their business income. Finally, while we find that add-on acquisitions lead to larger reductions in employment for some employee groups, including managers, we cannot reject equal effects on earnings. The results highlight that for the vast majority of employees, there are at most small effects of modern PE buyouts.

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1 Introduction

While an extensive literature has shown that private equity (PE) increases investor returns and improves managerial efficiency (Bloom, Sadun and Van Reener 2015; Kaplan and Stromberg 2009; Ewens and Farre-Mensa 2022), PE acquisitions of firms have led to significant policy concerns about impacts on workers and the broader economy.[1] In recent years, these concerns have heightened as assets under PE management surpassed $13 trillion, deal volume has increased, and add-on acquisitions or "roll-ups" that increase concentration in local labor markets have become more common (McKinsey 2024). Some research has begun to examine the aggregate effects of PE on labor (Davis et al. 2014), but identifying which types of workers are affected is crucial for assessing the welfare implications of PE and informing models of how PE generates value for shareholders. Progress answering these questions has been limited by a lack of comprehensive data that can capture different income sources (wages and payouts), enable classification of worker types (by occupation and ownership), and provide sufficient statistical power to detect potential heterogeneity.

We overcome this challenge by creating a new linkage between extensive U.S. PE deal data and administrative tax records. Consistent with prior work, we find short-run declines in employment and wages following PE acquisitions. However, the rich and uniquely comprehensive data allow us to explore with sufficient precision heterogeneity in outcomes in the short and long run among groups of workers differentiated by managerial status, age, and income, and consider effects on payouts and other income sources. We also identify owner-employees in the data and explore both worker outcomes excluding owners and the effects on owner employment and business activity. Finally, we can differentiate deals by whether or not they are add-on acquisitions. We focus on the effects of these roll-ups on worker outcomes given their growing prevalence, and potential to generate monoposony power that has led to increased regulatory scrutiny. Overall, we find that the employment and wage declines following PE buyouts do not extend to rank-and-file employees.

[1] For example, Senator Ed Markey claimed that "*private equity [is] sacrificing the long-term prosperity of workers, customers, and communities for their short-term profits*" and Senator Tammy Baldwin stated that: "out-of-state investors buy Wisconsin companies only to turn a quick profit and shutter their doors, it's Wisconsin workers and communities that suffer." A bipartisan Senate report noted that after PE acquisitions "employees were left without jobs."

To explore the effects of PE acquisitions on workers and firm owners, we utilize the universe of IRS tax records from 1999 to 2023. These tax records provide extensive information on employment, wages, business income, capital gains, and workers occupations, and allow us to create linkages between firms, employees, and owners. We match the administrative tax records to proprietary data from Pitchbook, which includes comprehensive data on PE buyouts in North America. Pitchbook includes more deals than other sources of PE deals, and we utilize this novel merged dataset to study outcomes of workers and firm owners following over ten thousand PE acquisitions of firms. We exploit our linked administrative tax and deal data to explore short and long-term outcomes for firm workers and owners up to a decade following buyouts. We match firms acquired by PE funds to similar firms that were not acquired by PE, based on industry, census region, entity type, asset and average wage decile, and the number of employees. We see balanced characteristics on worker outcomes for which we do not match and generally find no differential trends before buyouts in our matched sample. We then explore labor market and other outcomes for workers and firm owners following buyouts using a stacked difference-in-difference design.

Examining workers' outcomes, we find small, short-run decreases in employment following buyouts that reverse within approximately six years. We find a spike in earnings in the year of the acquisition, likely driven by severance payments and stock options. This increase is more than offset by decreases in subsequent years, with earnings taking nearly a decade to return to trend. The earnings decreases are three times as large as the employment decreases, pointing to the possibility of heterogenous effects for different types of workers.

Average employment and earnings effects mask substantial heterogeneity by age, income, and managerial status. For younger workers, we cannot reject no decrease in employment or earnings, but for workers above the age of 45 there are persistent negative effects on wages and employment, especially for workers ages 55 and older. We also cannot reject zero effect for workers from the bottom four earnings quintiles, but see large earnings effects for top wage quintile employees, who are more likely to be managers. Using descriptions on taxpayers' Form 1040s to classify workers into occupations, we see the largest negative employment and wage effects on managers, and this explains some of the effects we see for older and higher income workers. Notably, we

cannot reject zero effects of buyouts on the full sample of workers who are not managers and can rule out all but small negative effects on their cumulative earnings (1.7 percent).

While older workers, higher-wage workers, and managers all experience substantial declines in employment and earnings, senior and highly compensated employees are also more likely to have equity stakes in their firms and therefore receive payouts triggered by the acquisition that may offset some earnings losses. Consistent with this, managers and top wage quintile workers realize net capital gains that on average exceed the decrease in cumulative earnings over the decade following PE acquisitions.[2]

To more systematically identify owners in our data, we use Form K-1 for passthrough entities along with other ownership data. We first check for the sensitivity of our prior findings when fully excluding owners; the results are robust, including the pronounced heterogeneity across worker types, though with somewhat smaller magnitudes. We then focus on owner outcomes and find that they realize net capital gains on the order of several million dollars in the buyout year and subsequently exit the labor force at high rates, with a 30 p.p. persistent reduction in employment. The effects of labor force exit are most pronounced among older owners (ages 45 and over), whereas younger owners tend to remain in the labor market and experience little change in earnings over the ten-year sample period we study. Surprisingly, we find little evidence that buyout-driven liquidity fosters serial entrepreneurship: owners experience large overall declines in business income and are no more likely to fund or see increased business income from new firms over any horizon. Unlike effects on working, this pattern is consistent across the age distribution.

We finally examine whether there are heterogeneous effects by whether the buyout is an add-on acquisition or not. Roll-up strategies, in which PE funds acquire multiple firms in the same market, may reduce redundancies at merged businesses, but have also received increased regulatory scrutiny due to concerns they can raise local labor and product market concentration, harming workers and consumers. Consistent with this, we see some employment differences between roll-ups and other acquisitions for high-income, older, and manager groups, but this pattern does not extend to the full sample. And despite concerns over these deals, we cannot reject equality in earnings effects

[2]Capital gains realizations are in part only an increase in liquidity and not wealth, albeit understated since we observe only the net amount.

across any group when excluding owners. In fact, limiting the sample to only add-on acquisitions, we estimate at most small earnings effects for (non-owner) workers, with the bottom of the confidence interval ruling out cumulative declines greater than 2.5 percent.

This paper joins an extensive literature on the effects of private equity buyouts, beginning with work by Kaplan and Schoar (2005). Kaplan and Stromberg (2009) and Ewens and Farre-Mensa (2022) provide reviews of this literature. More specifically, this paper contributes to the literature on the impacts of PE acquisitions of firms on workers. Davis et al. (2014) conducted a seminal study, exploring job creation and destruction at the firm level in the United States. They find that PE acquisitions lead to job losses, but their employment data is at the establishment level and does not allow either individual workers to be tracked over time or the exploration of heterogeneous effects on workers. Other papers have filled the gap by looking at effects on individual workers.[3] A number of studies have explored the effect of PE buyouts on workers wage earnings in various European countries, often coming to differing conclusions over effects on workers and the amount of heterogeneity present (e.g. Ollson and Tag, 2017; Antoni, Maug and Obernberger, 2019; Fang, Goldman, Roulet 2025). In an important study, Herkenhoff et al. (2025) examines the effects on workers following buyouts using US Census data, generally being unable to reject that wage earnings estimates are the same across different groups of workers.

Our contributions rest on the rich and uniquely comprehensive data we bring to bear. Our sample matches the largest assembled set of buyouts to date to the universe of U.S. worker earnings histories and their demographics, including occupation strings for a substantial fraction of the population that we use to classify workers as managers. As a result, our first contribution is that we have more statistical power to detect potential heterogeneity than other studies. For example, while we have the power to reject the null hypothesis of no difference in employment and wage impacts on managers versus non-managers, our estimates lie well within the confidence intervals of manager and non-manager estimates in Herkenhoff et al. (2025).

[3]Several other studies have focused on PE and worker outcomes exploring workplace conditions. Cohn, Nestoriak and Wardlaw (2021) find that PE acquisitions lead to fewer workplace accidents. Agarwal and Tambe (2016) find that PE buyouts lead to transfers of technology that complement worker skills. However, some papers find negative outcomes for employees. For example, Gornall et al. (2024) finds decreased employer satisfaction following buyouts.

We find important differences by age, income, and managerial status that are consistent with theories for how private equity generates value for shareholders vis-à-vis employment decisions. Specifically, our results align with the view that PE breaches implicit contracts, namely replacing tenured and entrenched senior employees whose pay exceeds their marginal product (Lazear 1979; Shleifer and Summers 1988). Related, the results on managers in particular are consistent with the view that PE replaces less productive executives with more effective ones. This is supported by Bloom, Sadun and Van Reenen (2015), who show that PE-owned firms employ better management practices and Carlin and Robinson (2012) and Giorcelli (2019;2024), who show that better managerial education leads to improved financial decision making. By replacing management, external buyouts may also help resolve agency conflicts and improve governance (Jensen 1986; Kaplan and Stromberg 2009).

Second, our sample horizon extends well beyond the several years post buyout typically examined in prior work. We find that the dynamics can be important, with some effects persisting for at least a decade and others recovering over time but outside the window of other analyses.

We are also able to generate insights by observing forms of income beyond merely wage earnings. Thus, our third contribution is that we consider potential fiscal externalities of PE buyouts. We find only modest increases in government spending, primarily in the form of unemployment compensation, indicating direct fiscal externalities of PE buyouts are not meaningful. Fourth, we observe capital gains realizations and find that most of the groups negatively impacted in the labor market likely received payouts from the buyouts that exceeded the wage earnings losses.

In addition to observing equity payouts, we create novel linkages between the firms being acquired and their owners and equity shares. Our fifth contribution is that a substantial portion of the previously documented negative earnings effects are driven by owner separations. Indeed, when we exclude owners, we find no significant cumulative earnings effects in aggregate. Sixth, we can specifically examine effects on existing owner outcomes. In spite of the large realization event triggered, we find no evidence that owners, even those that are young, found or invest in new ventures, which stands in contrast to the literature that emphasizes the importance of liquidity in fostering entrepreneurship (Holtz-Eakin, Joulfaian, and Rosen 1994)

Our final contribution is that we are the first to estimate effects of add-on acquisitions, which have represented a growing share of PE deals and now constitute the majority. Consistent with the possibility of reducing redundancies, we do find larger short-run reductions in employment for the high-income, older, and manager groups. However, in spite of the increase in labor market concentration, we do not see large earnings decreases resulting from these roll-ups, even when focusing on transactions that lead to the largest increase in concentration.[4] While our analysis compares add-on to non-add-on PE acquisitions, another useful benchmark is to compare them to merger and acquisition (M&A) deals more broadly. We do not find evidence that workers fare worse after add-ons than they do after M&As (Arnold 2020).

The remainder of this paper is organized as follows. Section 2 describes the economics of private equity, sources of efficiency gains and potential concerns with the model. Section 3 describes the administrative tax and buyout data used, and Section 4 describes our empirical strategy. Section 5 presents employee-level results, while section 6 presents owner-level results and shows that the bulk of observed earnings effects are driven by owners. Section 7 analyzes roll-up deals while Section 8 concludes.

2 Private Equity Acquisitions

2.1 Private Equity Buyouts

PE buyouts occur when private funds engage in leveraged buyouts (LBOs). Target firms are acquired through debt financing, and in a typical deal high amounts of leverage are placed on the target firm's balance sheet. Kaplan and Strömberg (2009) and Metrick and Yasuda (2010) provide in-depth discussions of the PE model and discussions of the academic literature. PE acquisitions lead to changes in managerial incentives relative to other forms of for-profit ownership. PE owners tend to have stronger incentives to maximize firm value, because fund managers are compensated through call-option like functions of firm profits. General Partners (GPs) who manage PE funds are usually compensated through the right to 20% of profits from increasing portfolio company values

[4]Increases in profits arising from more concentrated product markets could raise worker earnings in ex post rent sharing models of wage determination, though we similarly do not find differences by whether or not the deal is in the nontradeable sector.

between deal buyouts and exits. High leverage levels further concentrate firm ownership and reduce agency frictions (Kaplan 1989). PE acquisitions also typically lead to changes in senior management, lessening existing relationships between management and employees. A large literature in finance has shown that PE buyouts increase productivity, improve management practices, alleviate credit constraints and generate high returns (Kaplan 1989; Bloom et al. 2016; Boucly, Sraer and Thesmar 2011). There are several channels through which PE buyouts might affect employees, owners and related fiscal externalities and we outline these in the remainder of this section.

2.2 Labor Market Effects of Private Equity Buyouts

The effects of PE buyouts on employees are more controversial in the public policy sphere, and have been studied in the US context to some extent (Davis et al. 2014, Herkenhoff et al. 2025). There are several channels through which PE buyouts may affect workers, and distinct channels may have offsetting impacts on employment or earnings. Distinct channels may also affect managers and less senior workers differently.

There are compelling reasons to think that PE acquisitions could lead to wage increases. PE acquisitions may lead to higher productivity and profitability through operational changes or the relaxation of liquidity constraints. Regardless of the reason, these gains may be shared with workers. Higher leverage and bankruptcy risk associated with PE deals may also lead to compensating differentials. Moreover, less efficient employees capturing rents may be terminated, redistributing gains to more productive workers (Jensen 1989).

On the other hand, PE ownership may result in weakened bargaining power for unions and the breach of implicit contracts (Shliefer and Summers 1988). This could lead to early retirement for many workers, or separations of highly paid managerial employees. Moreover, higher leverage and bankruptcy risk may lead firms to lay off works to cut costs. In sum, the effects of PE buyouts could affect workers and managers through non-mutually exclusive channels having effects in different directions. Additionally, we would expect significant heterogeneity by managerial status, age, and income.

2.3 Private Equity Buyouts and Owners

The effects of buyouts on existing firm owners are also theoretically ambiguous, and non-mutually exclusive channels could raise or reduce owners' earnings and labor supply. Buyouts lead to large and immediate payouts for owners, providing large amounts of liquidity, and potentially increasing the wealth of owners. It is well known from many contexts that wealth effects reduce labor supply, and these effects might also apply to the substantial liquidity infusion owners receive after buyouts (Dinerstein et al (2024); Golosov et al. 2024). On the other hand, previous owners may leave target firms following buyouts and found new firms, using their newfound liquidity to start or invest in new ventures. This serial entrepreneurship might lead to higher future earnings and capital gains for liberated owners.[5]

The fiscal effects of buyouts depend on the aforementioned employees and owner channels. If employees salaries grow, this will lead to a positive fiscal externality, while the converse is true if wages fall or if workers and mangers are no longer employed. Moreover, if many workers are retired early, this could put strain on public pension systems. Similarly, if owners reduce labor supply and earnings due to wealth and liquidity effects, this will reduce overall tax revenues. If owners exit current positions and found new firms, this will raise overall government revenues, both directly from the firm owners and from any new employment created through serial entrepreneurship.

2.4 Roll-ups

In a roll-up deal, PE funds acquire multiple small targets in the same market. PE funds argue that these roll-ups create efficiencies through economies of scale. Larger firm networks can consolidate supply chains and management, creating benefits that are passed on to consumers.

While there are reasons to suspect that roll-ups may create efficiencies which are passed on to consumers, critics of these deals point out that they may also harm both consumers and employees. Product market power may translate into higher prices for

[5]While beyond the scope of our analysis, the payouts stemming from PE buyouts may also create incentives for entrepreneurs to found firms with the intent to be compensated through a later acquisition. If PE buyouts are particularly attractive for founders, the likelihood of a buyout may affect their incentives to create new firms.

consumers, and labor market power may lead to a reduction in wages for employees. These concerns, combined with the increasing frequency of roll-ups over time (these deals make up two thirds of the PE deals in our sample with an increasing share over time) have led to significant policy and regulatory attention in recent years. For example, Senator Elizabeth Warren wrote in regards to the health care industry that roll-ups "*have resulted in market dominance leading to higher prices, particularly when private equity has been involved.*" Despite significant policy concerns, empirical evidence regarding roll-ups remains scant.

3 Data

Our primary data source is Internal Revenue Service administrative tax records including tax forms 1040, W-2, 1120, 1120-S, and 1065. These records contain detailed information on firms, owners, and employees. To supplement the tax data, we merge in proprietary PE deal data from Pitchbook, a leading market intelligence firm that provides data on private capital markets. The combination of these data sets allows us to locate firms acquired by private equity in the tax data, observe employees and owners of these firms, and to follow employees and owners across time.

First, we use names, addresses, and zip codes to match firms acquired in leveraged buyouts in the Pitchbook data to corporate tax forms 1120, 1120-S, and 1065, identifying firms in the tax data acquired in private equity deals. We discuss our matching algorithm in the appendix. This process yields a set of 15,767 firms acquired in PE buyouts.

Next, to establish a control group for our matched differences-in-differences design, we construct a set of plausible control firms that are never acquired by PE. We match acquired firms to control firms in the year before the PE buyout in a two step process, following a number of recent papers (Goldschmidt and Schmieder 2017, Smith et al. 2019, Arnold 2021, Arnold et al. 2025). First, for each acquired firm we find all exact matches without replacement on 2 digit NAICS industry, census region, entity type, asset and average wage decile, and a number of employee bin {<10, 10-20, 20-50, 50-100, 100-300, 300-1000, >1000}. Second, we choose a match from among these potential counterfactual firms as the firm with the closest propensity score, estimated predicting treatment with a linear probability model using quadratics in average wage, assets, and

number of employees. We find matches for 13,068 out of the 15,767 firms we identify in the tax data, a match rate of 83%. After restricting to matched pairs of firms that both have more than 10 workers in the year before the buyout, we are left with 11,155 firms.

Third, we link acquired and matched control firms to their workers and owners. We define workers as being employed at a firm if the firm issues them a W-2. We observe firm ownership for passthrough businesses (approximately 70% of acquired firms) directly on schedule K-1 attached to forms 1120-S and 1065. To measure C-corporation ownership, we rely on schedules B and G attached to form 1040 and 1120 respectively. Schedule B identifies all individuals receiving dividends, while schedule G provides information on large shareholders.

After identifying workers and owners, we separately construct a worker panel and an owner panel. The panels track individuals that work at or own a firm in the year before a private equity buyout from five years before the buyout through nine years after the buyout, regardless of whether they maintain a relationship with their original firm. The worker panel allows us to examine the impacts of PE acquisitions on workers, and we use a measure of ownership that applies across corporations and passthrough entities to exclude owner-employees from some worker analysis. The owner panel allows us to cleanly identify owners of passthrough businesses and follow their employment, business income, capital gains, and entrepreneurial activity over time.

To construct the worker panel, we identify all workers employed at firms acquired by private equity in the year before the PE buyout and their matched controls. We then restrict the sample to workers who earn more than $15,000 in 2017 dollars in the year prior to the buyout, that worked at the firm in the year before the buyout and two years before the buyout. After these sample restrictions, our worker panel includes employees associated with 10,029 unique firms acquired in a PE buyout. We measure worker wage income as the sum of medicare wages across all W-2s in each year, setting wage income to zero in years in which workers do not receive a W-2. We measure worker capital gains realizations on form 1040 schedule D, classify workers into occupations using strings on form 1040 available starting in 2005.[6] To explore fiscal externalities of buyouts we also measure unemployment receipt on form 1099-G, and disability and old age and

[6]We observe detailed occupation titles on 1040s, which we group into managerial vs. non-managerial roles. In the appendix, we discuss classifying managers into managerial or non-managerial positions.

survivors insurance fund (OASI) payments on form 1099-SSA.

To construct the owner panel, we identify all owners of passthrough businesses in the year before they are acquired in a PE buyout. We again restrict to owners of firms with more than ten employees, who also hold more than 1% of all equity in the year before the buyout, and hold stakes for at least two consecutive years before the buyout.[7] Tracking these owners over time, we measure their wages as the sum of all wages on form W-2, business income as the sum of ordinary income on all form 1120-S or 1065 schedule K-1s, and sole proprietor income and capital gains on form 1040 schedules C and D. To analyze the worker panel in the absence of owners, we drop all owners in the owners panel, plus any owner of a C-corporation on Form 1120 schedule G with an ownership stake exceeding 1%, or anyone receiving more than 1% of total dividends paid out by the corporation in any year before the buyout, measured on form 1099-DIV.

3.1 Deal, Worker, and Owner Summary Statistics

Table 1 presents deal-level summary statistics for the 11,155 buyouts where we identify a matched control firm and both firms have more than 10 employees. Column 1 displays the number of deals, column 2 displays the total number of workers, and column 3 displays the number of workers who appear at the firm in the year before the buyout and the year of the buyout. The difference between the second and third columns suggests significant churn as workers move to other firms following buyouts, consistent with Davis et al. (2016) and Herkenhoff et al. (2025). These 11,155 deals affect 2,007,409 workers. Approximately two-thirds of the deals are add-ons or roll-ups, and the largest sectors both in terms of deal count and number of employees are manufacturing (2,769 deals), services (2,742 deals) and wholesale trade (1,259 deals). Appendix figure A.1 plots deal counts by year, add-on, and industry. The number of total buyouts has increased over time, primarily driven by the rise in add-on acquisitions.

Table 2 displays summary statistics for the worker sample. After the sample restric-

[7] For S-corporations we directly observe the share of stock owned by each owner and the business income they receive. We keep an S-corporation owner in the panel if they own more than 1% of all stock, or if they receive more than 1% of all business income distributed to owners in the year before the buyout. For partnerships, we only observe the income distributed to partners. We thus keep a partner in the panel if they receive greater than 1% of all business income distributed to the partners in the year before the buyout.

tions discussed above, our worker panel has over 27 million worker-year observations and contains just under 2 million workers. We only observe occupation codes for 47% of workers because occupation strings do not begin until 2005 and they are not present for all workers. The average worker in our sample earns $76,100 in 2017 dollars, while workers at the tenth and ninetieth percentiles earn $2,600 and $159,200 respectively. Workers on average realize $2,200 in net capital gains, earn even less sole proprietor and business income, and collect less than $1,100 of unemployment, disability, and social security income. Over 90% of employees receive $0 from all of these non-wage sources. Approximately two-thirds of our sample consists of men, and the average age is 43. Among workers for whom we observe occupation, 15% are managers. Despite two-thirds of the deals in our data being add-ons, these deals tend to target smaller businesses: slightly under half of workers are associated with add-ons.

Table 3 displays summary statistics for our owners panel. There are 654,856 owner-year observations and 47,545 owners in the panel, about 2.4% of the total number of workers. The typical owner earns significantly more than the typical worker, and the majority of this income is not wages. Average business income is $385,400, net capital gains are $287,600, and wages is $164,300. While owners face significant tax incentives to classify income as business income (Smith et al. 2019), more than 50% of owners do receive wages. Close to 80% of owners are men, and the average owner age is 55.

4 Empirical Strategy

We study the effects of private equity acquisitions on workers and owners using a matched differences-in-differences research design. Specifically, we match firms acquired by PE to similar firms never acquired in the year before the PE buyout, and compare the outcomes of workers and owners at these firms over time. Appendix tables A.1 and A.2 show balanced worker and owner characteristics between acquired and matched control firms.

Defining event time $t = 0$ in the year of the PE buyout, we implement a stacked

differences-in-differences estimator employing the following specification

$$Y_{it} = \delta_i + \gamma_t + \sum_{e=-5,\neq 0}^{9} \beta_e \mathbb{1}(e = t) \times PE_i + \varepsilon_{it}. \quad (1)$$

Our main treatment variable of interest is PE_i, an indicator for whether a worker's firm was subject to a PE buyout in event time 0. Event time fixed effects γ_t absorb market-wide factors in the lead up to deals, such as workers wages growing as seniority increases, and individual fixed effects δ_i absorb time-invariant individual specific factors, such as an individual's family background or college education pre-buyout. Our main coefficient of interest is β_e, the average difference between treated and control workers outcome in event time e relative to the average difference in their outcome in the year before the PE buyout. We use many outcome variables Y_{it} across our worker and owner samples, including an indicator for receiving positive W-2 wage income (employment), W-2 wage income, capital gains realizations, and business income for worker or owner i at event time t.

Our main identifying assumption is a standard parallel trends assumption, that is, in the absence of a buyout workers and owners at non-acquired firms would have trended similarly to workers and owners in the matched control group. Our extensive data allow us to visually assess pre-trends for a variety of outcome variables over five years before acquisitions, and we find little evidence of differential trends.

Our empirical design does not suffer from conventional issues that arise in staggered timing setups (Goodman-Bacon, 2021) because we compare always-treated workers and owners at firms acquired by private equity to never-treated workers at firms never acquired by private equity. Therefore, identification does not come from individuals moving between treatment and control groups.

5 Employee Level Results

5.1 General Effects of Acquisitions on Workers

We begin by exploring the impacts of PE acquisitions on all workers. Figure 1 shows aggregate effects. The top panel shows employment, while the bottom panel shows

wages. We also plot the raw means of employment and wages for treatment and control workers by year in Appendix Figure A.2. Consistent with prior work such as Davis et al. (2014), we see quite muted employment effects.[8] There is a slight decline in employment of roughly half a percentage point in the years immediately following buyouts, but this gap shrinks over time and is completely eliminated within six years. Within a decade of the buyout, we cannot reject that employment has risen for workers employed at acquired firms relative to workers employed at matched control firms. The results suggest that aggregate employment effects are modest and not persistent over time.

Figure 1, panel (b) indicates that effects on wages are more pronounced directly around the time of buyouts. In the year of the buyout, wages jump by 6% for acquired versus matched control workers. This spike likely reflects severance payments as well as some components of payouts associated with the buyout transaction.[9] Following the buyout, effects are more negative in terms of wages for several years. In the years immediately following the buyout, we see a 3% reduction in wages and reject declines smaller than 1.5%. Over time, the point estimates remain between -3 and -1% but confidence intervals widen, and we cannot reject zero relative wage declines within four years of the buyout.

Table 4 presents regression estimates of equation (1), which correspond to Figure 1. Column 1 indicates a $5,136.9 increase in wages in the year of the buyout, followed by a $2,316.7 average decline in wages in each of the four years following a buyout. This decline is statistically significant at the 5% level. Column 2 shows that this decline is somewhat offset by an increase in liquidity. On average, workers realize a capital gain of $8250.4 in the year of the buyout. We generally do not see evidence of statistically significant effects in on sole proprietor income in column 3, or unemployment, disability, or social security income in columns 4-6. The second half of the table displays very

[8]Our employment effects are slightly smaller than other estimates in the literature in the United States. This is likely due to the fact that we have a more recent sample of acquisitions and employment. Appendix figure A.4 shows employment effects by time period. Employment and earnings effects are more negative for buyouts occuring prior to the Great Financial Crisis.

[9]The fact that we can observe the spike in payments following buyouts is due to the richness of the administrative tax data. Other data sources that are based off of surveys or state unemployment insurance records may miss components of payments such as one-time payments in exchange for equity, bonuses, or severance. Vesting restricted stock units and exercised non-qualified stock options are both included in W-2 wages. Box 12 on the W-2 sometimes includes a "Code V" statement corresponding to non-qualified stock options. We observe a spike in the frequency of Code V listings in box 12 in the year of buyouts for our treatment relative to control group.

similar estimates from specifications that include 2 digit NAICS industry by year fixed effects.

Table 5 presents extensive margin estimates, showing effects on employment and the income sources shown in Table 4. Consistent with the graphical evidence in 1, there is a statistically significant decline in labor force participation of 0.61 percentage points on average over the first four years following a buyout, which dissipates over time. In aggregate, we do not observe significant extensive margin effects on other income sources, suggesting few workers are receiving them.

While the aggregate effects are somewhat muted and in line with previous studies, the small average effects may mask significant heterogeneity. In the remainder of this section, we explore this heterogeneity, first by exploring the impacts of PE acquisitions separately by workers age, wage quintile, and occupation, before turning separately to effects driven by firm owners and equity-holders themselves.

5.2 Heterogeneity by Age and Wage Quintile

While the aggregate effects shown in Figure 1 are well-studied, these aggregates mask significant heterogeneity. Figure 2 estimates equation (1) separately within decade-wide age groups and wage quintiles, defined based on workers' ages and wages in the year before PE buyouts. Tables 6 and 7 display corresponding regression estimates.

Panels (a) and (b) of Figure 2 show employment and wage effects by age groups. For workers between 25 and 35, employment increases by approximate 1% over a decade and rejects zero. For workers between 35 and 45 there are zero effects. However, for workers above the age of 45 we see substantial declines in employment. The greatest effect is for workers between 55 and 65, who experience a 3% reduction in employment within five years of the buyout. This effect partially reverses but is persistent, with a 2% decline in employment even a decade later. The results are thus consistent with buyouts leading to early retirement for many workers. The wage effects in Figure 2, panel (b) mirror the employment patterns, with zero or positive effects for younger workers, but persistent wage declines of roughly 6-9% for workers between 55-65.

Panels (c) and (d) of Figure 2 show employment and wage effects by wage quintiles, defined in the year prior to the buyout. These age effects are strongly correlated with

effects by worker wage quintile, as older workers tend to earn more. For workers in the bottom 80% of the wage distribution we see no or even positive effects on employment. This pattern is mirrored for wages in years after the buyout with no declines for the bottom 80% of wage earners, and close to a 6% persistent wage decline for top quintile workers. This effect persists a decade after buyouts. PE buyouts thus reduce wage inequality for workers, but they do this by bringing wages down at the top of the income distribution (Fang et al. 2025).

In contrast to post-buyout wage declines, in the year of the buyout, wage spikes increase by worker wage quintile. Stock compensation that counts as wages may be more concentrated among higher-wage workers, suggesting potential for heterogeneous payouts associated with the buyouts. Sure enough, Table 7, column 5 shows that capital gains realizations are substantially larger among top wage quintile workers, while lower wage workers realize few capital gains.

Figure 3 shows further heterogeneity cutting our sample by both age bin and wage quintile. Panel (a) displays employment estimates and panel (b) displays wage estimates. Almost all of the employment and wage effects seen above are driven by high-wage workers above the age of 45.

5.3 Heterogeneity by Occupation

Much of the aforementioned effects are driven by employees in managerial positions, who tend to be both older and higher earning. It is well known that following buyouts, many managers are removed from their positions, which can improve practices and increase efficiency at target firms (Kaplan 1989, Bloom et al. 2016). Figure 4 splits employment and wages by managerial status in panels (a) and (b) respectively. We only observe occupations roughly half of workers from 2005 onwards, so we present estimates separately for managers, non-managerial workers, and the sample of workers for which we can observe occupation in the year before the buyout. For workers not in managerial positions, who comprise the vast majority of the sample (85%), we see patterns similar to those observed for younger and low-wage workers. We see very slight declines in employment and wages following buyouts, which are marginally or not significant with later increases that eventually reach parity or surpass levels prior to the buyout. For

managers on the other hand, we see a sharp 3% drop in employment over the first five years after buyouts that shrinks over time, but not back to zero, and sharp and persistent wage drops of 6-9% over a decade after buyouts.

Table 8 displays regression estimates corresponding to Figure 4, in levels. Managers experience an average wage drop of $10,954.4 over each of the four years following buyouts, while the wage effects for non-managers are approximately one-tenth as large and statistically insignificant. Employment effects for non-managers cannot reject zero, while managers employment drops by 2-3%. As with higher-wage and older workers, managers experience larger one-time wage spikes in the year of the buyout of $11,294.4, and realize larger capital gains of roughly $32,000.

Figure 5 triply splits our results by managerial status, age group, and wage quintile. Panels (a) and (b) show effects on managers employment and wages by age and wage quintile, while panels (c) and (d) show effects on non-managers employment and wages by age and wage quintile. While across all of these subsamples we do see some effects for older and higher-wage non-managerial workers, the effect sizes are much larger for managers within these categories. Indeed, effect sizes are usually double or more for managers relative to non-managers within age and wage quintile groups.

Replacing management is common following buyouts. PE may replace managers because they would like to make operational changes, in which case targeting managers directly, regardless of their age or wage, makes sense. But PE may also look to lay off any workers earning more than their marginal product. That could be the oldest workers, highest wage workers or managers. In fact, Lazear (1979) predicts that compensation contracts are backloaded as workers stay with a firm for longer, suggesting that it is workers with longer tenures at a firm that make mages above their marginal product. To test this directly, Appendix Figure A.5 panels (a) and (b) split the worker sample into managers and non-managers, with tenure less than four years and greater than five years. Negative employment and wage effects are concentrated in the longest tenured managers.

Regardless of whether older, higher-wage, managerial, or longer-tenured workers experience the most negative employment and wage impacts, many of our results show these classes of workers realize capital gains when buyouts occur, suggesting they have ownership stakes in the firms they work for. Owner-employees, while still earning wage

income, may have agency in the decision to sell a firm to private equity in the first place, and their outcomes are likely to be different than workers without equity stakes because they will receive large payouts from buyout transactions. In the next section, we assess the impacts of buyouts on firm owners.

6 Accounting for Owners

So far, we saw that there are important and heterogeneous effects of PE buyouts on workers, with large effects for older, high-wage, and managerial workers. An understudied group in terms of the effects of PE buyouts is firm owners themselves. As discussed in section 2, acquisitions may increase or decrease the future earnings of owners through several non-mutually exclusive channels. Figure 6 displays separate estimates of the impacts of PE acquisitions on workers, splitting the worker sample into owner-employees and non-owner workers.

Figure 6 shows that the outcomes of owner-employees diverge much more drastically from other workers than older, higher-wage, or managerial workers' outcomes do. Panel (a) shows that non-owner capital gains and employment spike by roughly 5-7% of baseline wages in the year of the buyout. Employment and capital gain effects are close to zero and flat for the decade afterwards, while there are small negative effects on wages that often cannot reject zero. On the other hand, Panel (b) shows that owner-employees experience a decline in employment of over 30% and a decline in wages approaching 40% four years after acquisitions, while both declines remain above 30% a decade after buyouts. Panel (c) shows that capital gains spike by close to 160% of baseline wages in the year of the buyouts, roughly 30 times the relative increase for non-owners, and these relative changes understate level differences because average wages are higher for owners than non-owners. These results are consistent with owners experiencing a very large liquidity event in the year of the buyout - the payout from the buyout.

Given the drastic differences between the outcomes of owners and non-owners after PE acquisitions, we first explore the impacts that these large liquidity events have on owners using the owners sample. Next, we return to worker-level results while removing owners, and show that even after removing owner-employees from the workers panel, our previous results still hold, albeit with smaller magnitudes.

6.1 Effects of PE on Owners Using the Owners Panel

To explore the impacts of PE buyouts on owners more directly, we turn to our owners panel, which tracks owners of passthrough businesses acquired by private equity and owners of their matched control firms.

Figure 7 plots estimates of β_e from equation (1) using the owners panel, tracking the impacts of PE on owners across extensive and intensive margins. Tables 9 and **??** present analogous regression estimates. Panel (a) of Figure 7 uses indicator variables for whether owners realize any capital gains, and have any sole proprietor income, wages, and business income. Like with owner-employees, there is a large and persistent decline in employment for owners, of 12% in the four years after the buyout and 17% in the following five years. The frequency of business income immediately declines by 20% in the four years after the buyout, with that decline only shrinking slightly to 18% in the following five years. On the other hand, owners experience an 18% spike in the frequency of capital gains realizations in the year of the buyout. There is a slight uptick of a few percentage points in the frequency of receiving sole proprietor income.

Figure 7, panel (b) uses an indicator variable for owners receiving no positive income or realization from any source in panel (a). There is a 17-18% increase in the fraction of owners receiving no positive income over the entire decade after the buyout, a sign that owners are leaving the labor force and not starting new businesses.

Figure 7, panel (c) plots estimates of the level impact of PE acquisitions on owners capital gains realizations and business income. The average owner realizes a capital gain of $2.59 million dollars in the year of the buyout and an additional $100,000 in each of the four years after the buyout. On the other hand business income quickly declines relative to the year of the buyout, by $580,000 per year in the four years after the buyout and $477,000 per year in the following five years. Panel (d) plots percent changes, showing that wages decline by roughly 20%, their total sole proprietor income declines or does not change, and their business income immediately declines by roughly 80%, remaining more than 50% below baseline after a decade. These results drive home that owners appear to enjoy very large capital gains along with precipitous drops in business income and wages, consistent with large liquidity events leading to declines in labor supply.

If we interpret the estimates in Figure 7 and Table 10 as driven by liquidity effects, these indicate that a $2,586,909.5 increase in captain gains in the year of the buyout leads

to a 12.52 percentage point decrease in employment, a $579,235.4 reduction in business income and a $40,965.7 reduction in wage income four years after the buyout. Scaling these estimates, a $1 million increase in liquidity from the capital gains realizations leads to a 4.8 percentage point reduction in employment, a $223,910 reduction in business income and a $15,836 reduction in wage income. The reductions in employment and wage earnings are similar to those found in the wealth shock literature, for example Golosov et al. (2024) find that an additional $1 million increase in wealth leads to a $23,000 reduction in earnings and a 30.7 percentage point reduction in employment, with larger effects for high-income households.

6.2 Serial Entrepreneurship

It is possible that increases in liquidity following buyouts lead owners to found new firms, as discussed in section 2. Large influxes of monetary resources following buyouts could free up capital for owners to invest in new projects. However, our results yield little evidence of serial entrepreneurship or owners founding new firms. Panel (c) of Figure 7 shows that there are large and persistent reductions in the level of owners' business income. This is partially offset by an increase in long term capital gains income, which is especially large in the year of the buyout and the liquidity event. The bottom right panel shows similar outcomes in percentage changes.

We further explore new business activity and serial entrepreneurship in Figure 8. Panel (a) shows extensive margin estimates of the impacts of PE acquisition on owners' wages and business income from the firm they were matched to in the year before the PE acquisition, and all other firms. The frequency of business income and wages from the original firm decline by 20% and 10-15% respectively, while there are initially larger increases in the frequency of wage income from other firms of 20% and business income from other firms of 10%. These effects both shrink towards 5% increases over a decade. Panel (b) shows the smaller level estimates of sole proprietor income, and wages from the original and different firms, while panel (c) shows business income from the original and different firms. The magnitude of average estimated effects on sole proprietor income are economically very small. The immediate $75,000 decline in wages from the target firm is partially offset by a roughly $37,000 increase in wages from other firms. However,

in panel (c) we show there is very little income from other firms to offset the $400,00-$500,000 per year decline in business income. Indeed, in percentage terms the amount of business income declines despite a reasonably sized increase in the share of individuals reporting new business income from different sources. In sum, the results point to little evidence of successful serial entrepreneurship following buyouts.

These persistent negative employment and earnings effects for owners are largely driven by older firm owners. Figure 9 and Table 11 display estimates of the impacts of PE buyouts on owners by age. Figure 9, panel (a) shows extensive margin effects on owners having no positive income from any source jump by 30% following PE acquisitions for owners over 65, and only 10% for owners under 45. Figure 9, panel (b) shows that the size of business income declines, and to some extent the spike in capital gains realizations in the year of the deal, are both consistent across age groups. Figure 9, panel (c) shows that wages decline by more for most older owners, while a decade after buyouts we cannot reject zero wage changes for the youngest owners. All three panels paint a similar portrait: older owners appear to leave the labor force and enjoy the quiet life, while owners under the age of 45 continue to work but do not start or invest in new businesses.

6.3 Owners Effects on Aggregate Employment

We have shows that PE buyouts have dramatic effects on owners liquidity and labor force participation. In this section, we investigate to what degree these dramatic effects for a small subgroup of workers drive our aggregate estimates using the workers panel in section 5.

Figure 10 explicitly shows that the effects of PE buyouts on workers are quite muted once owners are taken into account. Panel (a) shows estimates of β_e from equation (1) using the full worker sample, with separate series displaying estimates including owners (solid), and excluding owners (hollow). The dots show employment, while the squares show wages. Once owners are excluded, employment effects become small and statistically insignificant, even in the years immediately after the buyout. Wages are similar and positive in the year of the buyout for both samples, but diverge in years after the buyout. For the sample excluding owners, point estimates are smaller than the full sample, and are statistically indistinguishable from zero within three years following the

buyout.

The remainder of the panels in Figure 10 repeat the estimates in panel (a), but restricting to the groups with the largest employment and earnings effects: top wage quintile workers in panel (b), older workers in panel (c), and managers in panel (d). Once owners are excluded, both employment and earnings effects are significant more muted. This is most evident for managers, where once owners are excluded employment effects are barely significant, and wage effects are about half the size as they are in the sample including owners.[10] Figure 10 demonstrates that even for the most affected sub-groups, a significant portion of observed effects are driven by owners.

Table 12 presents estimates of equation (1), splitting the worker sample into owners and non-owners. The left panel restricts to owners who are working at the time of the buyout, while the right panel restricts to non-owner employees at the time of the buyout. Consistent with the results in Figure 10, we see no significant employment effects for employees once owners are removed from the sample, and marginally significant negative employment effects only in the first four years following the buyout with a $1,329.0 annual decline in earnings. This is approximately half of the effect size during the first your years post-buyout that we see in Table 4, and longer-term we see no statistically significant wage or employment effects for non-owners. In contrast, owner-employees exhibit substantial declines in both wages and employment, even larger than those for owners in the owners panel (which includes owners without any wage income) seen in Tables 9 and 10.

Table 13 further splits the estimates in Table 12, displaying separate estimates including and excluding owners for full samples, top wage quintile workers, older workers, and managers. We see a roughly consistent pattern, that once owners are excluded both employment and earnings effects decline by approximately 50%. The results in Table 13 demonstrate that even for the most responsive workers, a significant portion of the employment and wage effects are driven by owners.

[10]While already small, employment and earnings effects for affected groups may be even smaller as our methodology might cause us to underestimate the effects of ownership. It is important to note that our use of a 1% ownership threshold might classify some workers who have ownership shares below 1% as non-owners, despite receiving significant liquidity following buyouts.

7 Heterogeneity by Deal Type

7.1 Private Equity roll-ups

We next explore heterogeneity by deal type, specifically focusing on a category of deals which was received significant attention among policy makers: roll-ups. In a roll-up deal, a PE fund acquires multiple small companies in a market, which are then merged or at the very least integrated into the same existing portfolio company. roll-ups can increase efficiency through economies of scale, but detractors worry that these types of deals can increase market power and raise prices for consumers and lower wages for workers.

Approximately two-thirds of the deals in our sample are add-ons, in which a PE firm acquired an additional target. These tend to be smaller firms, so they account for slightly under half the employees in our sample. The frequency of add-ons has been increasing in recent years. Effects for add-ons may differ from other deals for several reasons and directionally employment and wage effects could go in either direction. First, there may be economies of scale. Redundant workers may be terminated, reassigned or may have less bargaining power within the firm. On the other hand, add-ons could generate profits for firms by increasing market power. If some of these rents were shared with workers, this could increase wages. At the same time, labor market power might reduce wages for workers at the firm but also in the labor market more generally.

7.2 Roll-ups, Managers and Owners

Figure 11 splits employment and wage effects by the add-on status of deals, splitting the sample by the exclusion of owners in the top and bottom rows respectively. The left columns show employment, while the right columns show wages. The results indicate that effects are marginally significantly greater for add-on deals for a couple years, with no significant employment effects for non-add-on deals, when looking at all workers. Indeed, once add-ons and owners are excluded, employment effects are marginally positive a decade after acquisitions. Once we exclude owners, we do not see differences that are statistically significant from each other (though add-on deals do show an effect significantly different from zero). Earnings effects are similar, with no differences in effects

in any year but effects in add-on deals being statistically significantly different from zero for the first several years.

Table 14 presents further regression estimates of equation (**??**). Table 14 splits the sample into the most sensitive groups, high-earners, older employees and managers. The top rows show earnings, the middle rows show employment and the bottom rows show long-term capital gains. In the full sample, during the first four-years post buyout we see a larger wage response for add-ons ($2,619.7), 66% larger than the observed wage effects for non-add-ons ($1,751.6). In the following five years we still see a 40% larger effect for add-on deals relative to other PE deals, however neither effect is statistically significant. In the full sample employment effects are similar. For add-on deals, we see capital gains income that is roughly twice as large as for non-add-on deals, and these effects persist in the first four years post-buyout, which could be due to more concentrated ownership structures at smaller firms.

Turning to the most affected groups, when including owners, high-earners, older employees and managers, Table 14 shows more pronounced differences in the add-on deals. We generally see larger effect for add-on deals, with much more substantial employment effects for elderly, high-income and managerial workers in the pooled years 1-4 estimates.

Table 15 presents estimates similar to Table 14, but excluding owners. While we continue to find insignificant differences in the overall pooled estimates, it is also clear that the differences for employment persist to some degree for certain groups. The left panel shows add-on, while the right panel shows non-add on deals. The right panels show the surprising fact that, once owners and add-on deals are excluded, we see no significant earnings or employment effects on workers post-buyout. Indeed, there are even positive effects on long-term capital gains and the coefficients on employment are positive between five and ten years post-acquisition. For add-on deals, we see negative impacts on employment and wages but these dissipate five years after the buyout. The lack of positive wage gains following roll-up deals suggests that increased profits through greater market power are not passed on to workers or that that they are offset by increases in labor market power.

Table 15 shows that for the most affected groups, high-earners, older workers and managers, we do see statistically significant and persistent effects on wages even for

non-owners and non-add-on deals. These effects persist a decade after buyouts, and they are similar for add-on and non-add-on deals. Indeed, effect sizes are even larger for these groups for non-add-on deals relative to add-on acquisitions. However and perhaps surprising, negative employment effects for these groups are much larger for add-on deals. High earners see greater increases in capital gains income following buyouts. Thus the effects of buyouts on somewhat nuanced on these three highly effected groups, with worse employment effects following buyouts.

Figure 12 shows the dynamics of employment and earnings effects on managers, excluding and including owners. The figure indicates that much of the effects are driven by add-ons and managerial status, which are especially large employment and wage effects for managers in add-on deals. However, these effects become much more muted once owners are excluded from the sample. We see no significant employment or earnings effects when we exclude both add-ons and owners. The results thus suggest that add-ons lead to consolidation of tasks for add-on deals, and that management is replaced beyond simply owners leaving following liquidity events. We see similar patterns for high-wage and older workers Figure A.6 shows the dynamics of wages and employment for high wage workers, split by the inclusion of owners in the sample. Figure A.7 shows similar estimates for workers above the age of 55.

Two channels through which roll-ups may affect workers are increasing firms' product market power, or through increasing firms' labor market power. We expect both channels to be relevant for non-tradable industries if present, although they would likely affect workers in opposite directions. If product market power increases, firm profits will rise and some of these additional earnings may be passed on to workers in the form of higher earnings. If labor market power increases, employers will be able to pay workers lower wages. Which channel dominates, if any, is an empirical question. On the other hand, we would mainyly expect only the labor market power channel to be relevant in the tradable sector given the less local nature of the sector's product market.

In the appendix, we split roll-ups by whether the firms are in tradable or non-tradable industries, following classifications in Mian and Sufi (2014). Figure A.8 shows employment and wages split by tradable and non-tradable industries.[11] The results do not

[11]Figure A.9 repeats the analysis for the most sensitive groups. However, these results generally lack precision and have wide confidence intervals.

indicate a clear pattern, with effects generally statistically indistinguishable. That said, if taking the point estimates at face value, they indicate that employment goes down more for add-on deals in the non-tradable sector compared to the tradable sector. And among non add-on deals, employment rises more for the non-tradable sector. These results are not consistent with rents being shared with workers from increase product market power.But that employment does down more for nontradable add-on deals is consistent with efficiency gains.

We can draw three implications from the results in this section. First, once owners and add-on deals are excluded, for rank-and-file employees, PE buyouts have little or even positive effects on labor market outcomes. Second, the small employment and wages effects for non-add-on deals are concentrated amongst owners, managers, high-earners and older employees. For the latter three groups, we observe effects even for those without substantial ownership stakes. Third, negative employment effects are concentrated among these three groups for add-on deals, but perhaps most notable, we do not see differences in earnings effects overall (or for any groups once owners are excluded), indicating that add-on deals are not particularly harmful to workers. This suggests that concerns about increased labor market concentration may be overstated.

8 Concluding Remarks

The paper builds a novel administrative dataset to demonstrate that much of the previously documented labor market effects of PE acquisitions are driven by owners leaving the firm following liquidity events substituting for leisure. Otherwise, small effects are concentrated among relatively affluent groups: managers, high-earners and older employees, all of which significantly overlap. For the vast majority of employees, PE buyouts have at most modest negative effects on employment and earnings. Even add-on acquisitions appear to have limited effects on earnings.

While our study documents new facts using administrative data, there remain several avenues for future research. First, future work can try to quantify the efficiency benefits of removing entrenched management. Another fruitful avenue for further research is on add-on acquisitions. We relied on a classification of roll-ups from our Pitchbook data. Uncovering the full ownership structure of PE funds in the tax data may allow

for the construction of an even more complete measure of roll-up activity. Our results have implications for policy. Regulators have, on average, little reason to fear the labor market impacts of PE acquisitions on workers, even for add-on acquisition. However, future work should also consider changes on the product market side to better quantify the overall welfare consequences of these transactions.

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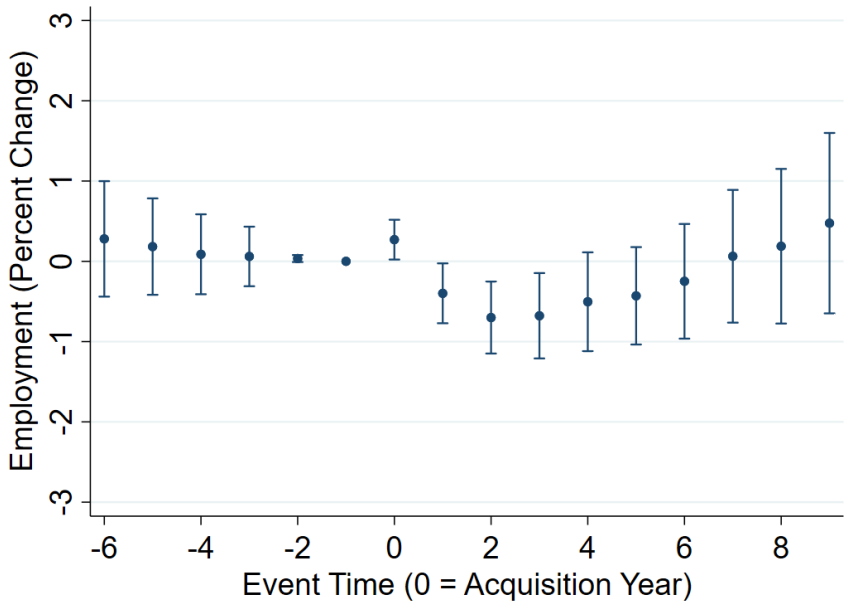
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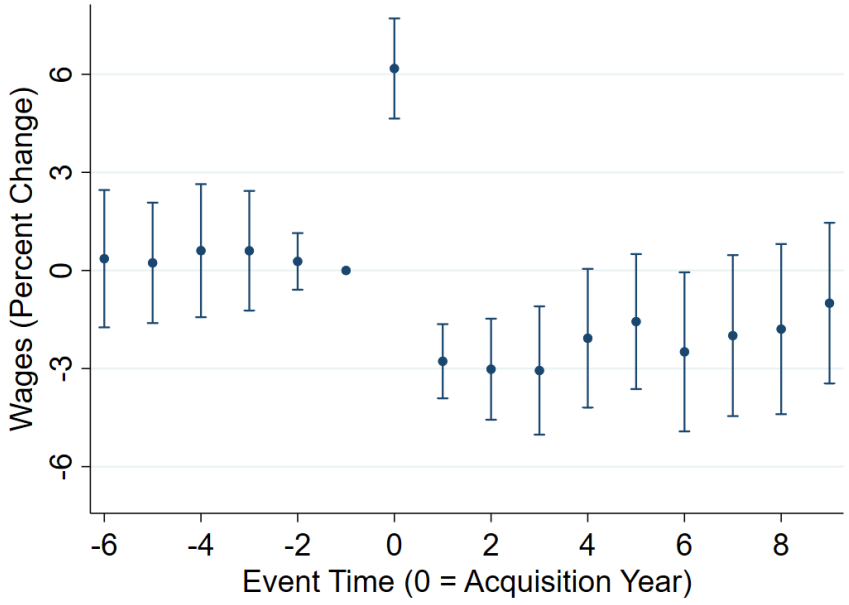
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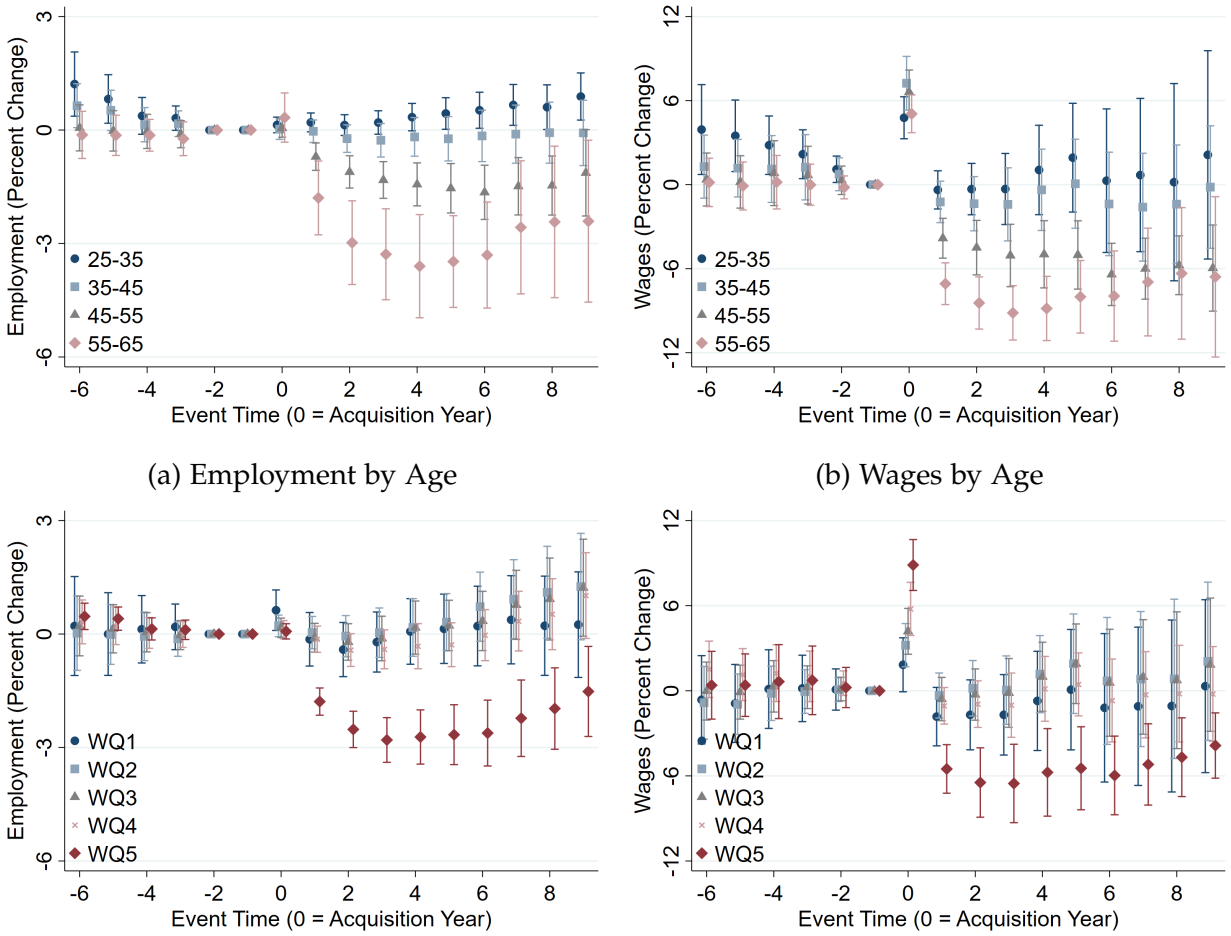
(a) Employment



(b) Wages

Figure 1: Impacts of PE Acquisitions

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed as the outcome in Panel (a), and wages as the outcome in Panel (b). To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment by Age

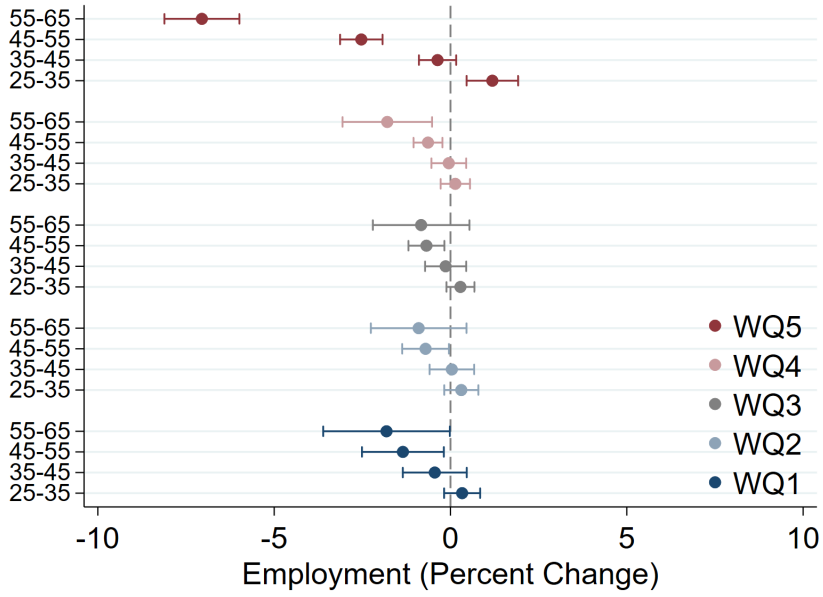
(b) Wages by Age

(c) Employment by Wage Quintile

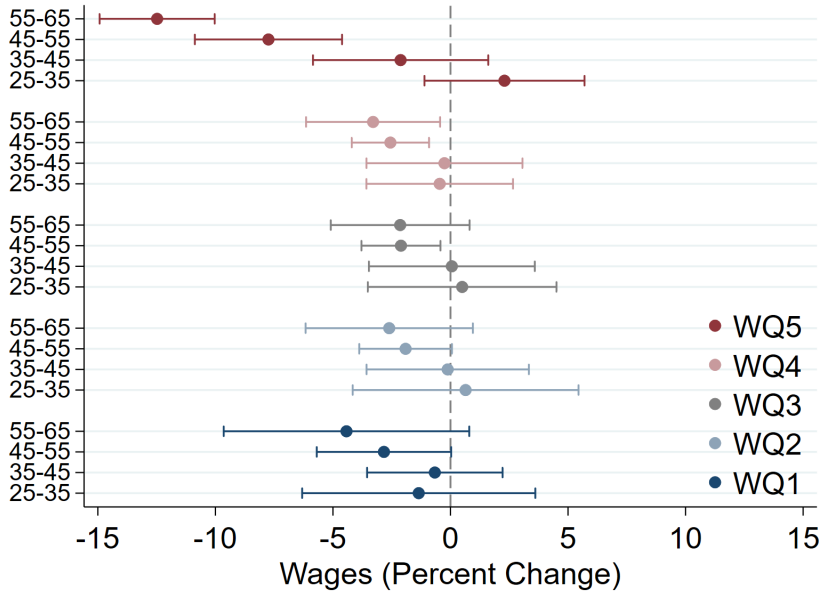
(d) Wages by Wage Quintile

Figure 2: Impacts of PE Acquisitions by Age or Wage Quintile

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed as the outcome in Panels (a) and (c), and wages as the outcome in Panels (b) and (d). Each series estimates equation (1) using only workers in the specified age range or wage quintile in the year before the PE acquisition. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the specified age range in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



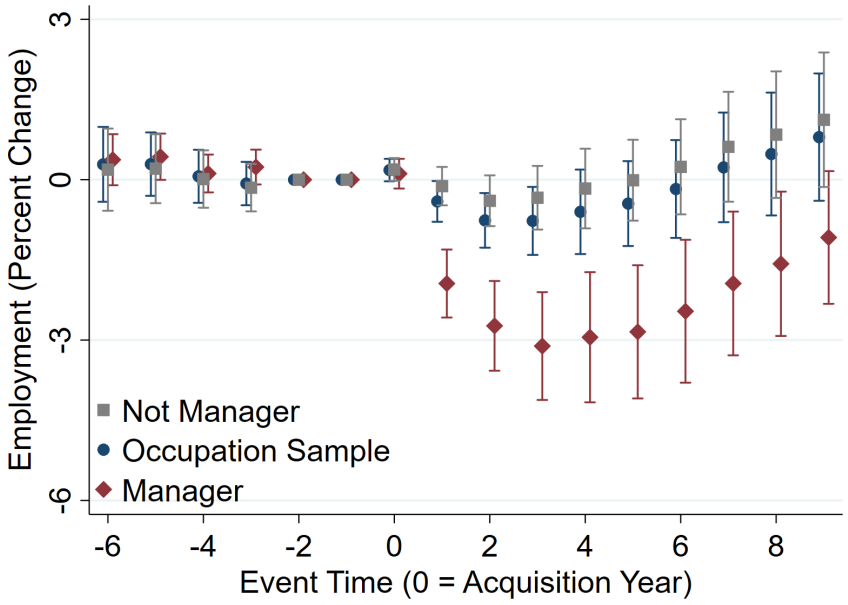
(a) Employment



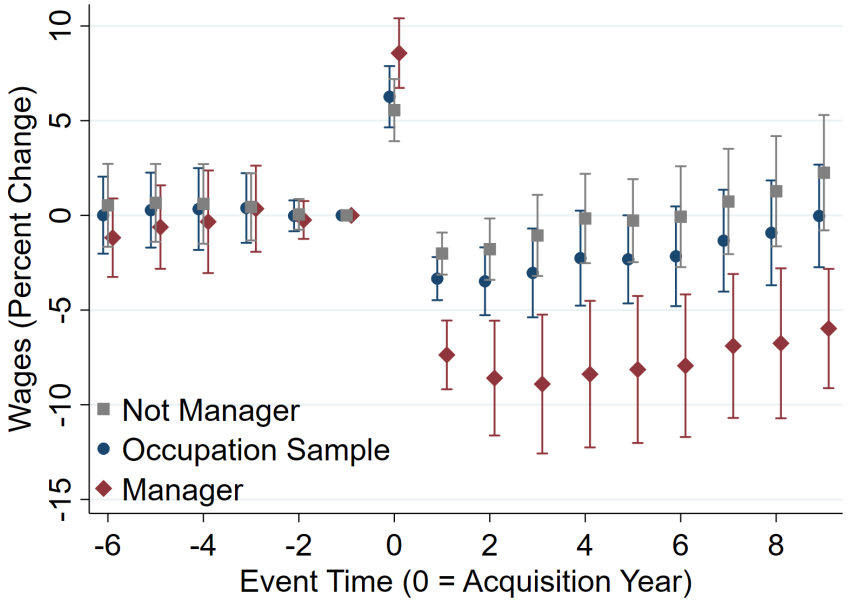
(b) Wages

Figure 3: Impacts of PE Acquisitions by Age and Wage Quintile

Notes: This figure displays difference-in-difference estimates of average post-reform coefficient estimates from equation (1), replacing post-match year indicators with an indicator for an observation being in any post-match year, and using a dummy variable equal to 1 if a worker is employed as the outcome in Panel (a), and wages as the outcome in Panel (b). Each series restricts to the set of workers in the specified age range and wage quintile in the year before the acquisition. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the relevant estimation sample in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment



(b) Wages

Figure 4: Impacts of PE Acquisitions by Managerial Status

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed as the outcome in Panel (a), and wages as the outcome in Panel (b). Each series utilizes a different estimation sample, restricting to the set of workers we can measure occupation for, and then sub-setting to workers in managerial and non-managerial occupations. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the relevant estimation sample in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Manager Employment

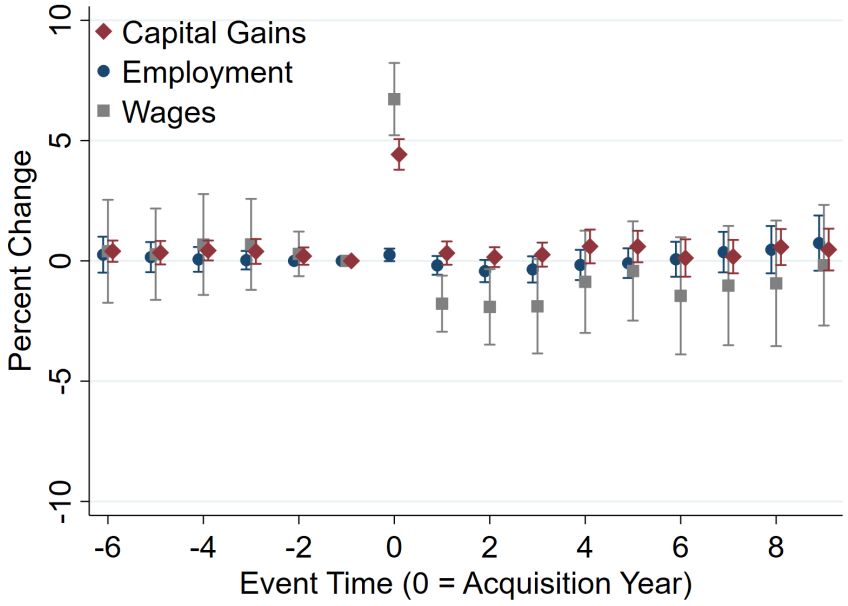
(b) Manager Wages

(c) Not Manager Employment

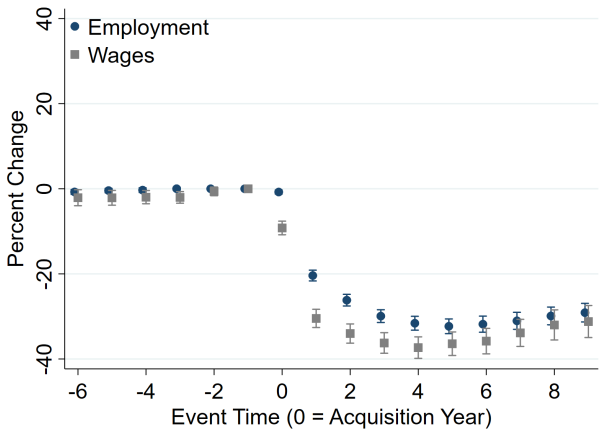
(d) Not Manager Wages

Figure 5: Impacts of PE Acquisitions by Managerial Status, Age, and Wage Quintile

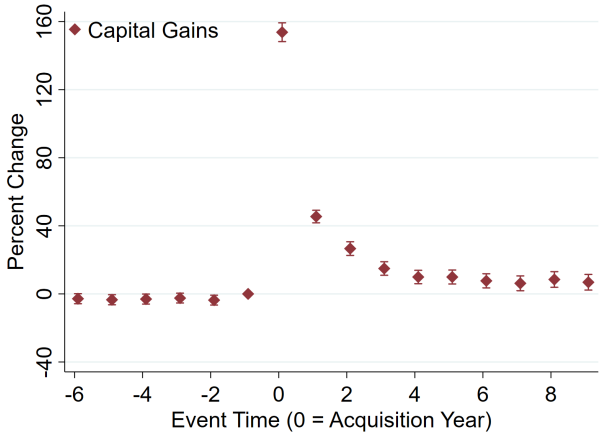
Notes: This figure displays difference-in-difference estimates of average post-reform coefficient estimates from equation (1), replacing post-match year indicators with an indicator for an observation being in any post-match year, and using a dummy variable equal to 1 if a worker is employed as the outcome in Panels (a) and (c), and wages as the outcome in Panels (b) and (d). Panels (a) and (b) are estimated on our sample of workers in managerial occupations, while panels (c) and (d) are estimated on workers in all other occupations. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the relevant estimation sample in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Non-Owners



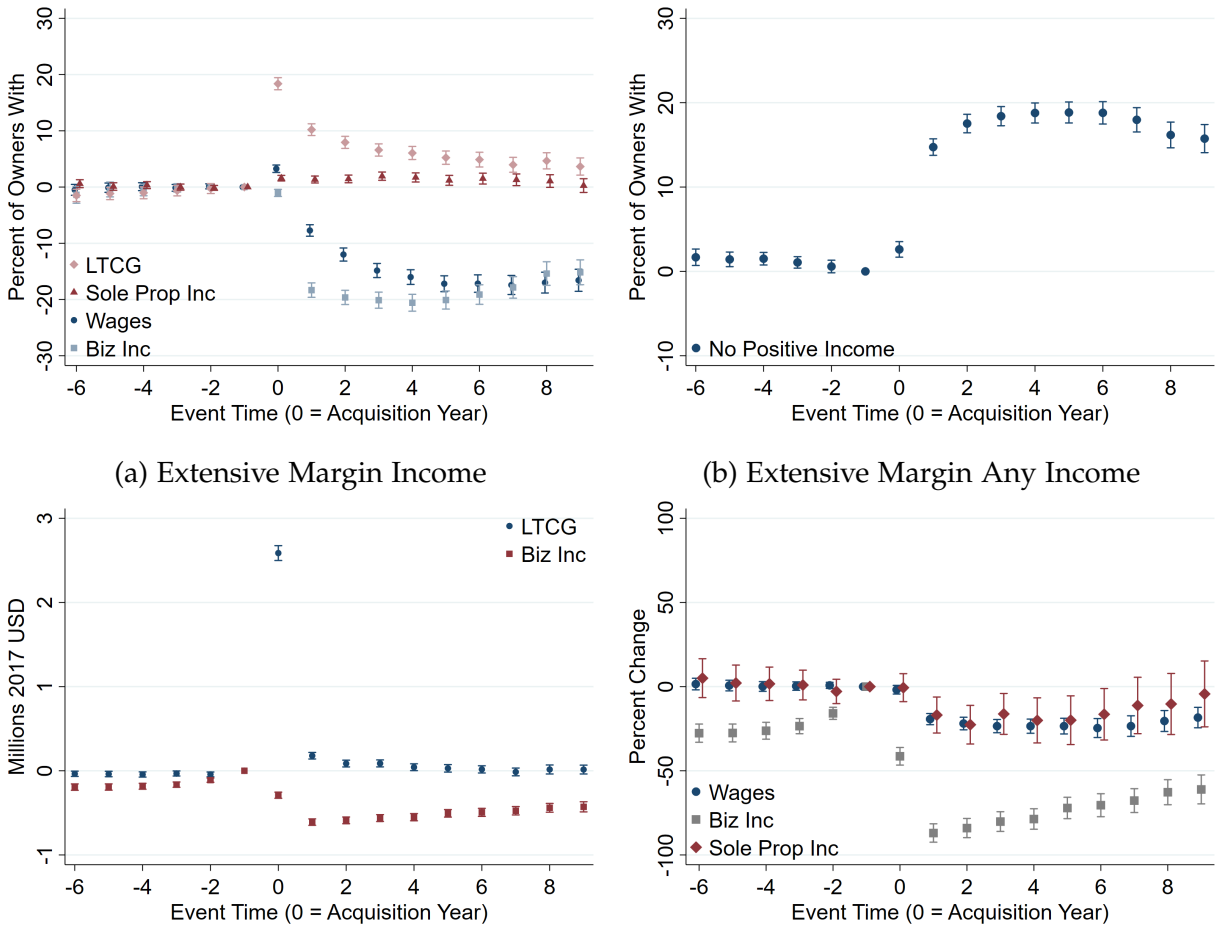
(b) Owners Employment and Wages



(c) Owners Capital Gains

Figure 6: Impacts of PE Acquisitions On Owners and Non-Owners

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using long-term capital gains, a dummy variable equal to 1 if a worker is employed, and wages as outcome variables. Panel (a) displays estimates from a regression on all non-owners in our worker sample, while panels (b) and (c) displays estimates from a regression on all owners in our worker sample. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the relevant estimation sample in the year before the acquisition. Capital gains are scaled as a fraction of base year wages because they are large and infrequent. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Extensive Margin Income

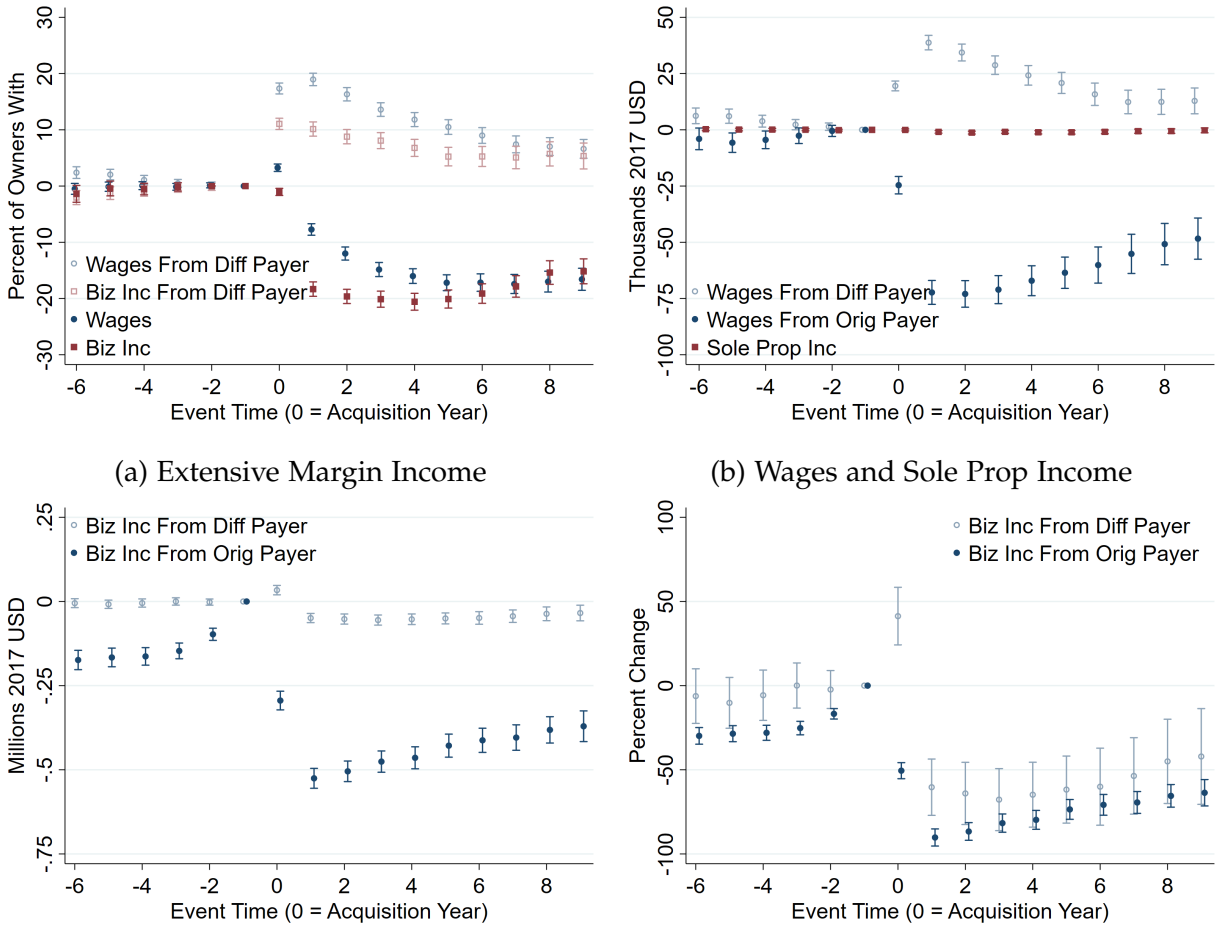
(b) Extensive Margin Any Income

(c) Level Change in Compensation

(d) Percent Change in Compensation

Figure 7: Impacts of PE Acquisitions on Owners

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using our owner sample. Panels (a) and (b) displays estimates using dummy variables equal to 1 if an owner receives each type of income as outcome variables. Panel (c) displays estimates using variable levels as outcome variables. Panel (d) scales estimates into percent changes by dividing level coefficient estimates by the average value of the outcome for owners of acquired firms in the year before the acquisition. "Biz Inc" is ordinary business income, "LTCG" is long-term capital gains, and "Sole Prop Inc" is sole proprietorship income. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Extensive Margin Income

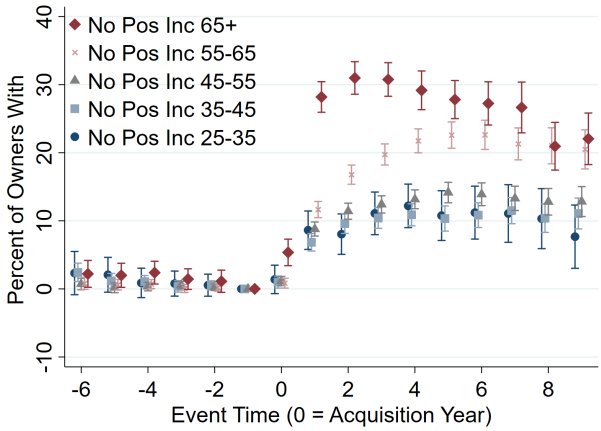
(b) Wages and Sole Prop Income

(c) Business Income

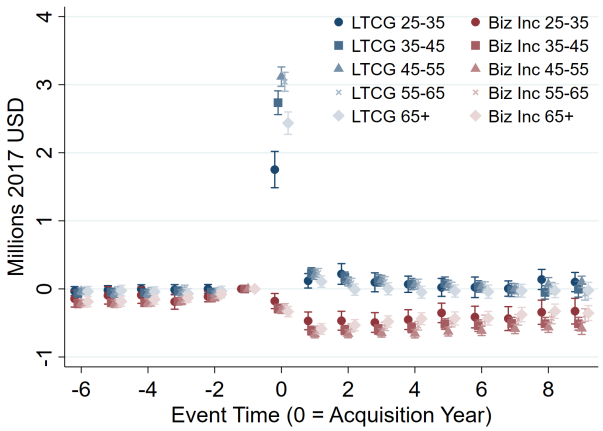
(d) Business Income

Figure 8: Impacts of PE Acquisitions on Owners New Business Activity

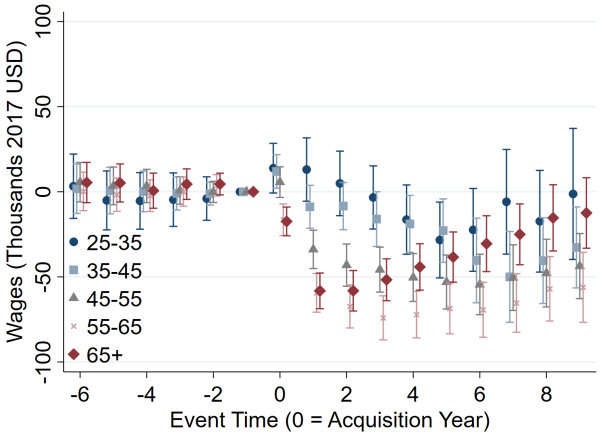
Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using our owner sample, the separate series in each panel are estimated using compensation outcome variables making distinctions between owner's compensation from the acquired entity and all other entities. Panel (a) displays estimates using dummy variables equal to 1 if an owner receives each type of income as outcome variables. Panel (b) displays estimates using variable levels as outcome variables. Panel (c) scales estimates into percent changes by dividing level coefficient estimates by the average value of the outcome for owners of acquired firms in the year before the acquistion. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Extensive Margin Income



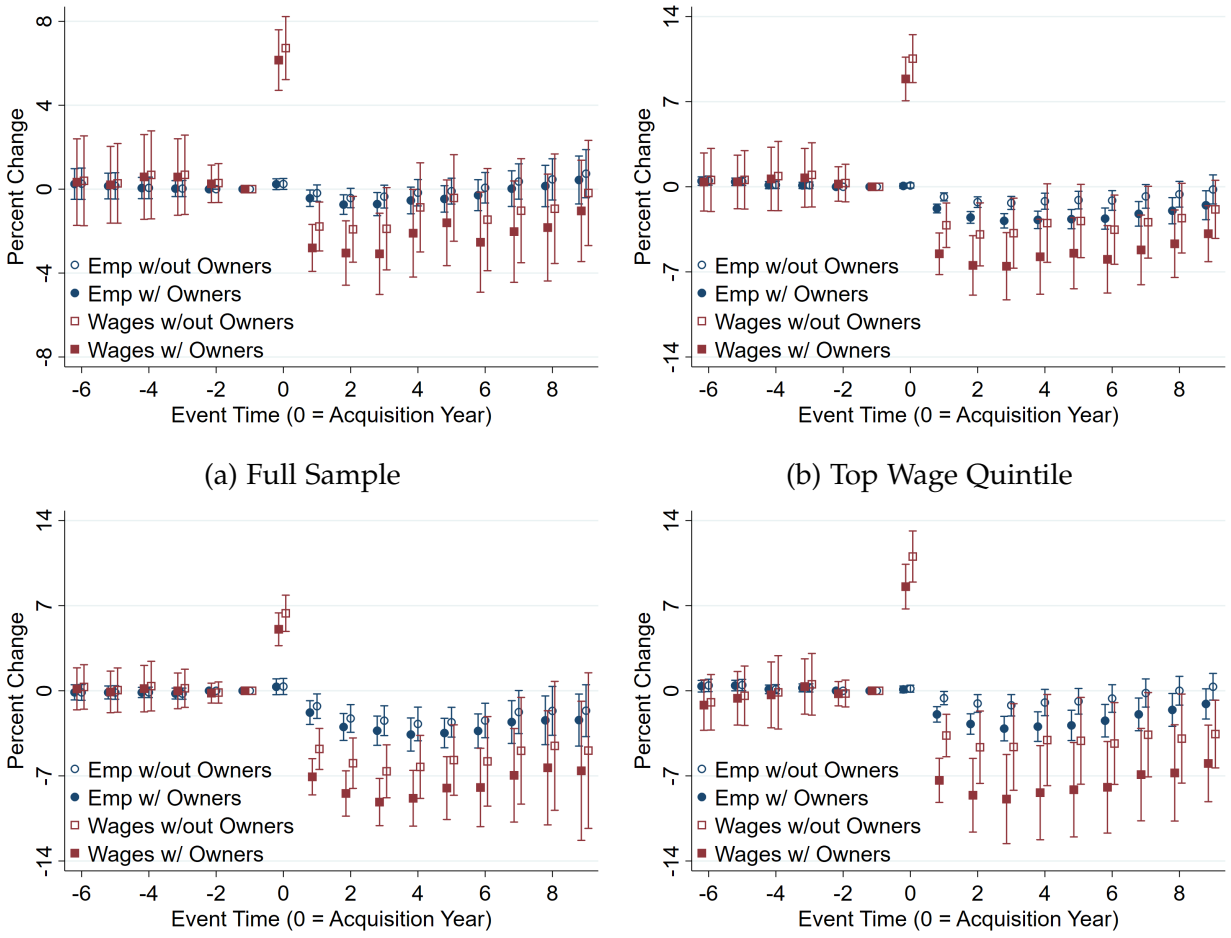
(b) Extensive Margin Any Income



(c) Level Change in Wages

Figure 9: Impacts of PE Acquisitions on Owners by Age

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using our owner sample. Panels (a) and (b) displays estimates using dummy variables equal to 1 if an owner receives each type of income as outcome variables. Panel (c) displays estimates using variable levels as outcome variables. Panel (d) scales estimates into percent changes by dividing level coefficient estimates by the average value of the outcome for owners of acquired firms in the year before the acquistion. "Biz Inc" is ordinary business income, "LTCG" is long-term capital gains, and "Sole Prop Inc" is sole proprietorship income. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Full Sample

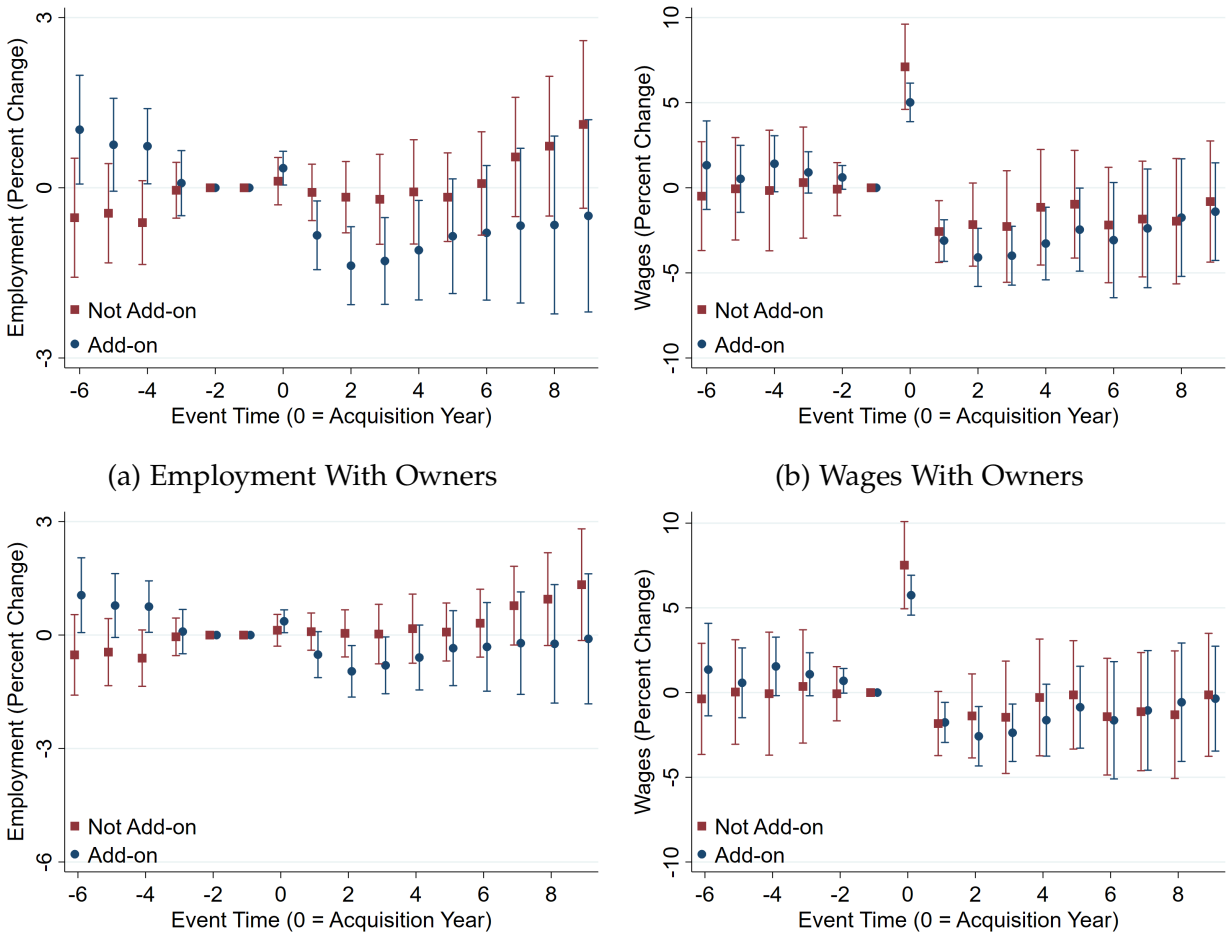
(b) Top Wage Quintile

(c) 55-65

(d) Managers

Figure 10: Impacts of PE Acquisitions With and Without Owners

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed and wages as outcome variables. Each panel displays four series of estimates, wages and employment including and excluding owners from the worker panel. Each panel displays these estimates for a different subsample of our data. Panel (a) uses the full worker sample, panel (b) uses top wage quintil workers, panel (c) uses workers ages 55-65, and panel (d) uses workers in managerial occupations. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the relevant estimation sample in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment With Owners

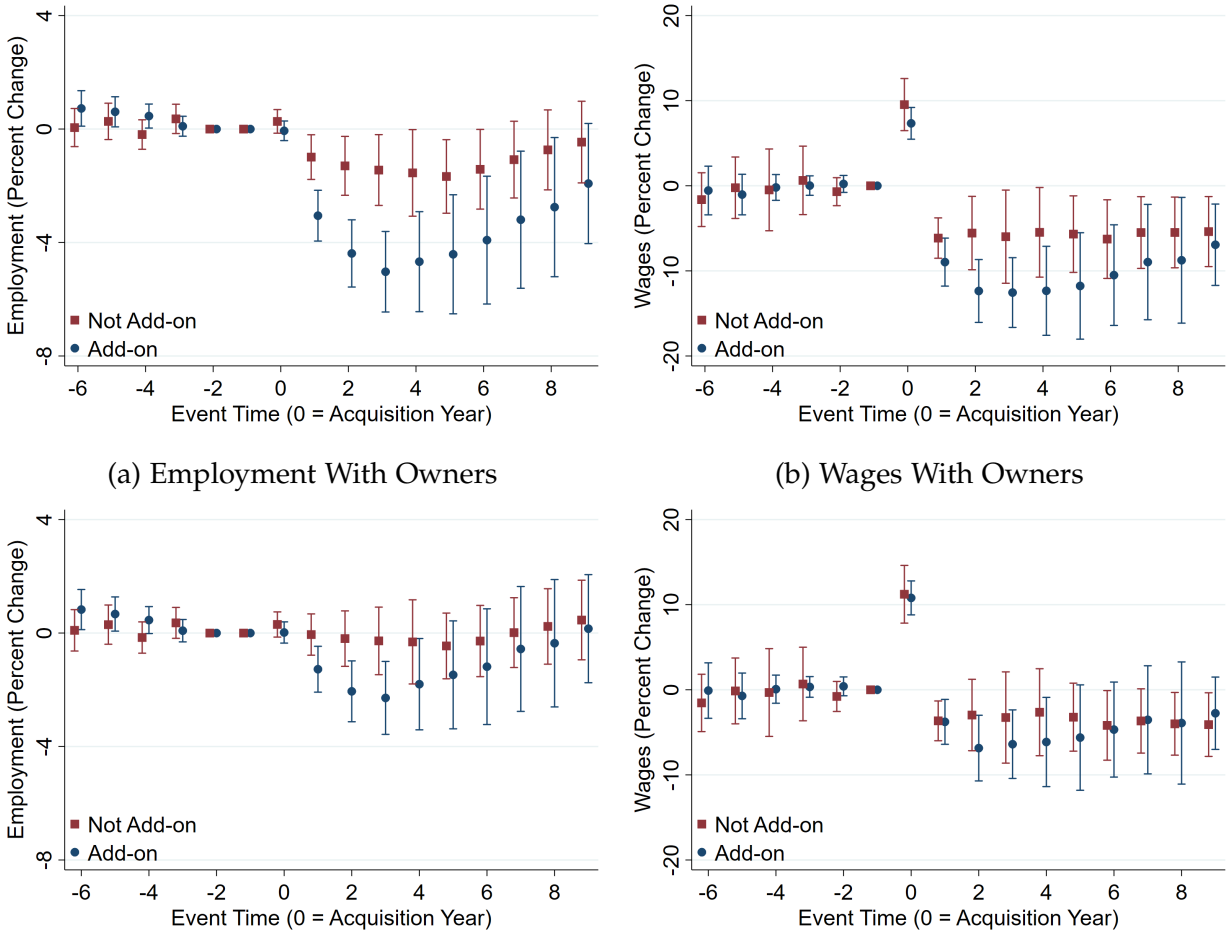
(b) Wages With Owners

(c) Employment Without Owners

(d) Wages Without Owners

Figure 11: Impacts of Add-on PE Acquisitions

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (**??**) using a dummy variable equal to 1 if a worker is employed as the outcome in Panel (a) and wages as the outcome in Panel (b). Each panel splits workers into groups that are and are not associated with an Add-on acquisition. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the relevant estimation sample in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment With Owners

(b) Wages With Owners

(c) Employment Without Owners

(d) Wages Without Owners

Figure 12: Employment Impacts of Add-on PE Acquisitions on Managers

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed as an outcome variable in panels (a) and (c), and wages as an outcome variable in panels (b) and (d). Each panel displays separate regression estimates performed on the sample of managers in our worker sample that are and are not associated with add-on acquisitions. Panels (a) and (b) include owners, while panels (c) and (d) exclude owners. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the specified age range in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.

Table 1: PE Deal Summary Statistics

Deal Type	Deal Count	Worker Count	Worker Snapshot Count
Matched Deals	11,155	2,007,409	1,318,573
Manufacturing	2,769	545,744	419,055
Service	2,742	365,587	270,124
Wholesale Trade	1,259	126,578	92,529
Health	723	105,438	73,924
Add-on	7,473	955,401	632,087

Notes: This table reports summary statistics for all private equity deals identified in the tax data, for which we succesfully find a matched control, where both the acquired firm and the matched control have more than 10 employees in the year of the buyout.

Table 2: Worker Sample Summary Statistics

	Mean	Std Dev	P10	P50	P90	Observations	Workers
Panel A: Intensive Margin							
Wages	76.1	84.7	2.6	53.1	159.2	27,841,160	1,956,890
Capital Gains	2.2	38.8	0.0	0.0	0.0	27,841,160	1,956,890
Sole Proprietor Income	0.6	9.6	0.0	0.0	0.0	27,841,160	1,956,890
Business Income	1.6	20.2	0.0	0.0	0.0	27,841,160	1,956,890
Unemployment	0.5	2.5	0.0	0.0	0.0	27,841,160	1,956,890
Disability	0.2	2.0	0.0	0.0	0.0	27,841,160	1,956,890
Social Security	1.1	5.1	0.0	0.0	0.0	27,841,160	1,956,890
Taxes	18.6	39.0	0.0	6.9	40.3	26,848,860	1,956,762
Age	43	20	28	43	59	27,757,186	1,950,896
Panel B: Extensive Margin							
Men	0.65					27,741,452	1,949,796
Managers	0.15					12,738,033	917,723
Add-on	0.48					14,391,697	1,010,253
Employed	0.91					27,841,160	1,956,890
Capital Gains	0.08					27,841,160	1,956,890
Sole Proprietor Income	0.04					27,841,160	1,956,890
Unemployment	0.08					27,841,160	1,956,890
Disability	0.01					27,841,160	1,956,890
Social Security	0.06					27,841,160	1,956,890

Notes: This table reports summary statistics for our entire worker panel data set spanning 1999-2023. Statistics are reported in thousands of 2017 US dollars. To preserve taxpayer anonymity, percentile statistics are reported as the means of all observations in the (P-1,P+1)th percentiles.

Table 3: Owner Sample Summary Statistics

	Mean	Std Dev	P10	P50	P90	Observations	Owners
Panel A: Intensive Margin							
Business Income	385.4	1,245.3	−64.5	26.7	1,107.1	654,856	47,545
Capital Gains	287.6	1,397.5	−33.9	0.0	371.2	654,856	47,545
Wages	164.3	300.1	0.0	58.0	421.1	654,856	47,545
Sole Proprietor Income	5.5	31.7	0.0	0.0	4.6	654,856	47,545
Age	55	49	37	53	71	623,762	45,294
Panel B: Extensive Margin							
Men	0.77					620,715	45,073
No Positive Income	0.15					654,856	47,545

Notes: This table reports summary statistics for our entire owner panel data set spanning 1999-2023. Statistics are reported in thousands of 2017 US dollars. To preserve taxpayer anonymity, percentile statistics are reported as the means of all observations in the (P-1,P+1)th percentiles.

Table 4: Impacts of PE Acquisitions on Workers

	(1) Wages	(2) LTCG	(3) Sched C Inc	(4) UI	(5) DI	(6) OASI
β_0	5136.9	8250.4	68.1	19.7	−2.7	−19.3
	(615.1)	(444.6)	(15.8)	(66.5)	(3.3)	(10.3)
$\beta_{1\text{-}4}$	−2316.7	991.3	56.9	115.8	0.0	−59.4
	(654.6)	(183.0)	(25.5)	(25.7)	(11.7)	(34.7)
$\beta_{5\text{-}9}$	−1542.1	581.5	43.9	37.1	5.9	−155.9
	(906.8)	(262.4)	(41.6)	(40.6)	(26.1)	(87.1)
β_0, with ϕ_{jt}	5342.5	8386.0	80.3	21.0	−3.8	−22.5
	(639.4)	(407.6)	(14.8)	(65.4)	(2.5)	(10.0)
$\beta_{1\text{-}4}$, with ϕ_{jt}	−2224.8	1001.3	76.5	109.3	−2.2	−61.2
	(666.8)	(170.9)	(22.3)	(25.5)	(10.2)	(32.5)
$\beta_{5\text{-}9}$, with ϕ_{jt}	−1391.4	630.0	74.6	28.0	1.4	−154.3
	(934.6)	(260.4)	(38.0)	(40.6)	(25.5)	(77.0)
Obs	27,841,160	27,841,160	27,841,160	27,841,160	27,841,160	27,841,160
Clusters	20,075	20,075	20,075	20,075	20,075	20,075
R^2	0.73	0.32	0.35	0.16	0.32	0.57
Pre-Deal Mean	83,487.4	934.2	195.7	223.4	16.8	485.2

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample includes our entire worker panel data set. ϕ_{jt} refers to 2 digit NAICS industry by year fixed effects. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers employed at acquired firms in the year before the acquisition.

Table 5: Extensive Margin Impacts of PE Acquisitions on Workers

	(1) Employment	(2) LTCG	(3) UI	(4) DI	(5) OASI
β_0	0.0024	0.0182	0.0032	−0.0001	−0.0007
	(0.0013)	(0.0029)	(0.0074)	(0.0002)	(0.0005)
$\beta_{1\text{-}4}$	−0.0061	0.0056	0.0145	−0.0000	−0.0025
	(0.0025)	(0.0036)	(0.0045)	(0.0005)	(0.0016)
$\beta_{5\text{-}9}$	−0.0008	0.0053	0.0102	0.0004	−0.0066
	(0.0041)	(0.0051)	(0.0057)	(0.0012)	(0.0043)
β_0, with ϕ_{jt}	0.0021	0.0187	0.0032	−0.0001	−0.0007
	(0.0013)	(0.0028)	(0.0072)	(0.0001)	(0.0005)
$\beta_{1\text{-}4}$, with ϕ_{jt}	−0.0060	0.0064	0.0139	−0.0001	−0.0026
	(0.0024)	(0.0036)	(0.0045)	(0.0005)	(0.0015)
$\beta_{5\text{-}9}$, with ϕ_{jt}	−0.0003	0.0066	0.0090	0.0001	−0.0068
	(0.0041)	(0.0049)	(0.0055)	(0.0012)	(0.0039)
Obs	27,841,160	27,841,160	27,841,160	27,841,160	27,841,160
Clusters	20,075	20,075	20,075	20,075	20,075
R^2	0.37	0.41	0.23	0.36	0.55
Pre-Deal Mean	1.0000	0.0658	0.0515	0.0015	0.0255

Notes: This table reports extensive margin difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. All outcomes are dummy variables indicating whether each worker received a W2, realized any long-term capital gains, or received UI, DI, or OASI payments. The estimation sample includes our entire worker panel data set. ϕ_{jt} refers to 2 digit NAICS industry by year fixed effects. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers employed at acquired firms in the year before the acquisition.

Table 6: Impacts of PE Acquisitions on Workers by Age Group

Outcome		(1) 25-35	(2) 35-45	(3) 45-55	(4) 55-65
Wages	β_0	3104.0	6594.6	6416.2	4635.0
		(497.1)	(891.2)	(777.6)	(631.0)
	$\beta_{1–4}$	−11.4	−1011.7	−4444.2	−7668.4
		(683.0)	(940.3)	(927.6)	(847.8)
	$\beta_{5–9}$	675.9	−802.8	−5622.3	−6675.2
		(1708.1)	(1660.3)	(1003.6)	(1710.3)
Employment	β_0	0.0013	0.0002	0.0005	0.0033
		(0.0011)	(0.0014)	(0.0013)	(0.0033)
	$\beta_{1–4}$	0.0021	−0.0018	−0.0114	−0.0289
		(0.0014)	(0.0020)	(0.0022)	(0.0055)
	$\beta_{5–9}$	0.0060	−0.0014	−0.0147	−0.0291
		(0.0025)	(0.0036)	(0.0034)	(0.0081)
LTCG	β_0	1392.0	5893.1	10606.2	16404.5
		(115.0)	(434.4)	(722.3)	(913.9)
	$\beta_{1–4}$	−5.7	728.5	1322.1	2461.2
		(136.0)	(210.7)	(282.9)	(349.9)
	$\beta_{5–9}$	−141.2	677.4	875.9	1134.2
		(164.0)	(289.4)	(420.1)	(436.3)
Obs		6,439,226	7,325,744	7,198,396	4,451,920
Clusters		19,504	19,801	19,611	18,692
Pre-Deal Wage Mean		64,988.7	91,090.8	97,051.0	91,668.1
Pre-Deal Employment Mean		1.0000	1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		228.1	707.5	1,031.7	1,545.2

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. We assign workers to an age group based on their age in the year before acquisitions and each column displays estimates from regressions performed separately on workers in each age group. Standard errors are clustered at the firm level and reported in parentheses.

Table 7: Impacts of PE Acquisitions on Workers by Wage Quintile

Outcome		(1) WQ1	(2) WQ2	(3) WQ3	(4) WQ4	(5) WQ5
Wages	β_0	660.9	1690.4	2822.7	5119.0	15083.5
		(350.3)	(408.6)	(555.4)	(845.7)	(1557.9)
	$\beta_{1–4}$	−542.1	126.3	−19.8	−658.0	−10333.6
		(478.6)	(541.1)	(650.4)	(770.3)	(2077.0)
	$\beta_{5–9}$	−217.7	663.1	811.8	−151.1	−8740.4
		(935.9)	(1179.6)	(1257.2)	(1221.0)	(2280.3)
Employment	β_0	0.0063	0.0022	0.0016	0.0011	0.0007
		(0.0027)	(0.0015)	(0.0013)	(0.0012)	(0.0010)
	$\beta_{1–4}$	−0.0018	0.0004	−0.0007	−0.0032	−0.0245
		(0.0037)	(0.0029)	(0.0026)	(0.0023)	(0.0026)
	$\beta_{5–9}$	0.0023	0.0081	0.0064	0.0024	−0.0226
		(0.0056)	(0.0050)	(0.0044)	(0.0037)	(0.0046)
LTCG	β_0	735.9	549.6	1159.8	2692.9	35408.9
		(83.6)	(85.1)	(164.4)	(285.5)	(1785.3)
	$\beta_{1–4}$	−70.0	−82.2	−151.9	−53.8	5215.5
		(66.1)	(82.5)	(121.5)	(170.3)	(669.1)
	$\beta_{5–9}$	−54.9	35.9	−132.7	−76.0	3081.9
		(89.5)	(131.0)	(208.0)	(293.1)	(752.5)
Obs		5,456,669	5,567,213	5,568,952	5,562,552	5,685,773
Clusters		20,011	20,039	20,034	20,022	20,075
Pre-Deal Wage Mean		36,093.8	52,580.7	67,333.8	88,624.1	170,092.9
Pre-Deal Employment Mean		1.0000	1.0000	1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		232.8	133.5	161.1	328.1	3,743.6

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. We assign workers to a quintile of the worker wage distribution in the year before acquisitions and each column displays estimates from regressions performed separately on workers in each quintile of the distribution. Standard errors are clustered at the firm level and reported in parentheses.

Table 8: Impacts of PE Acquisitions on Workers by Managerial Status

Outcome		(1) Occupation Sample	(2) Manager	(3) Not Manager
Wages	β_0	5534.3	11294.4	4445.6
		(728.8)	(1236.3)	(669.0)
	$\beta_{1–4}$	−2701.9	−10954.4	−1039.5
		(815.0)	(1991.2)	(676.3)
	$\beta_{5–9}$	−1323.9	−9580.9	496.5
		(1119.0)	(2421.5)	(1039.6)
Employment	β_0	0.0018	0.0011	0.0019
		(0.0011)	(0.0014)	(0.0011)
	$\beta_{1–4}$	−0.0064	−0.0267	−0.0026
		(0.0028)	(0.0045)	(0.0026)
	$\beta_{5–9}$	0.0010	−0.0208	0.0049
		(0.0048)	(0.0064)	(0.0048)
LTCG	β_0	10475.3	31948.1	6340.2
		(653.7)	(2098.5)	(461.6)
	$\beta_{1–4}$	1377.0	5580.0	519.2
		(251.1)	(638.9)	(237.4)
	$\beta_{5–9}$	1063.8	3754.7	429.3
		(301.6)	(677.1)	(277.7)
Obs		12,738,033	1,912,256	10,825,777
Clusters		18,807	16,501	18,745
Pre-Deal Wage Mean		88,320.6	131,821.5	79,999.2
Pre-Deal Employment Mean		1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		1,195.2	3,619.0	731.5

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. We assign workers to an occupation in the year before acquisitions. Column 1 displays estimates from a regression performed on all workers that we can assign an occupation code to. Columns 2 and 3 display estimates from separate regressions splitting workers with occupations into managers and not managers. Standard errors are clustered at the firm level and reported in parentheses.

Table 9: Impacts of PE Acquisitions on Owners

	(1) Wages	(2) LTCG	(3) Sched C Inc	(4) Biz Inc
β_0	−3,422.0	2,586,909.5	−34.1	−290,261.6
	(2,445.0)	(44,919.6)	(233.1)	(18,708.5)
$\beta_{1–4}$	−40,965.7	100,750.5	−1,039.0	−579,235.4
	(3,323.9)	(16,002.4)	(288.5)	(19,133.9)
$\beta_{5–9}$	−41,994.8	14,563.9	−760.1	−476,726.5
	(4,830.8)	(17,306.7)	(387.7)	(22,537.9)
β_0, with ϕ_{jt}	−2,937.8	2,586,322.0	−56.8	−289,599.5
	(2,428.2)	(44,568.1)	(234.5)	(18,460.0)
$\beta_{1–4}$, with ϕ_{jt}	−40,298.5	100,595.5	−993.8	−577,763.9
	(3,287.0)	(15,998.1)	(288.6)	(19,012.1)
$\beta_{5–9}$, with ϕ_{jt}	−41,702.1	11,855.6	−693.0	−477,595.6
	(4,727.9)	(17,103.5)	(384.8)	(22,317.4)
Obs	654,856	654,856	654,856	654,856
Clusters	15,742	15,742	15,742	15,742
R^2	0.67	0.38	0.50	0.54
Pre-Deal Mean	186,251.9	186,732.5	5,495.6	701,356.0

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample includes our entire owner panel data set. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for owners of acquired firms in the year before the acquisition.

Table 10: Extensive Margin Impacts of PE Acquisitions on Owners

	(1) Employment	(2) LTCG	(3) Sched C Inc	(4) Biz Inc	(5) No Income
β_0	0.0326	0.1838	0.0158	−0.0104	0.0261
	(0.0032)	(0.0055)	(0.0025)	(0.0032)	(0.0047)
$\beta_{1–4}$	−0.1252	0.0776	0.0161	−0.1963	0.1731
	(0.0054)	(0.0049)	(0.0031)	(0.0060)	(0.0049)
$\beta_{5–9}$	−0.1707	0.0463	0.0114	−0.1802	0.1781
	(0.0074)	(0.0058)	(0.0045)	(0.0084)	(0.0061)
β_0, with ϕ_{jt}	0.0340	0.1857	0.0159	−0.0102	0.0255
	(0.0033)	(0.0054)	(0.0025)	(0.0031)	(0.0047)
$\beta_{1–4}$, with ϕ_{jt}	−0.1223	0.0792	0.0165	−0.1975	0.1713
	(0.0052)	(0.0049)	(0.0031)	(0.0057)	(0.0048)
$\beta_{5–9}$, with ϕ_{jt}	−0.1672	0.0484	0.0121	−0.1810	0.1760
	(0.0072)	(0.0058)	(0.0045)	(0.0080)	(0.0060)
Obs	654,856	654,856	654,856	654,856	654,856
Clusters	15,742	15,742	15,742	15,742	15,742
R^2	0.68	0.61	0.58	0.42	0.48
Pre-Deal Mean	0.7027	0.6094	0.1883	0.9999	0.0519

Notes: This table reports extensive margin difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. All outcomes are dummy variables indicating whether each worker received a W2, realized any long-term capital gains, received any schedule C income, received any business income, or received any positive income of these four types. The estimation sample includes our entire owner panel data set. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for owners of acquired firms in the year before the acquisition.

Table 11: Impacts of PE Acquisitions on Owners by Age Group

Outcome		(1) 25-35	(2) 35-45	(3) 45-55	(4) 55-65	(5) 65+
Wages	β_0	13,873.0	11,968.2	5,660.1	−16,444.1	−17,408.4
		(7,435.9)	(5,024.4)	(4,596.7)	(4,742.3)	(4,301.0)
	$\beta_{1–4}$	5.5	−12,846.3	−43,026.6	−68,079.5	−53,402.8
		(8,691.1)	(6,770.9)	(5,931.8)	(6,000.1)	(5,729.2)
	$\beta_{5–9}$	−16,931.8	−36,322.1	−50,647.0	−64,715.3	−27,403.3
		(12,309.2)	(10,567.7)	(8,291.7)	(7,915.9)	(8,163.8)
Emp	β_0	0.0703	0.0610	0.0481	0.0275	0.0002
		(0.0147)	(0.0076)	(0.0054)	(0.0053)	(0.0057)
	$\beta_{1–4}$	−0.0104	−0.0485	−0.0961	−0.1922	−0.2205
		(0.0180)	(0.0108)	(0.0085)	(0.0091)	(0.0104)
	$\beta_{5–9}$	−0.0452	−0.1062	−0.1633	−0.2740	−0.1990
		(0.0239)	(0.0140)	(0.0112)	(0.0126)	(0.0140)
Biz Inc	β_0	−178,551.3	−288,225.9	−310,851.9	−267,810.0	−333,723.8
		(56,666.1)	(32,326.0)	(25,615.6)	(26,215.7)	(38,255.0)
	$\beta_{1–4}$	−471,060.0	−597,072.6	−657,275.8	−566,701.2	−512,705.2
		(66,928.8)	(31,286.1)	(27,753.4)	(27,947.2)	(39,228.5)
	$\beta_{5–9}$	−377,668.2	−518,939.6	−600,927.9	−453,091.2	−397,379.4
		(71,461.6)	(36,846.8)	(32,004.4)	(34,596.7)	(47,015.4)
LTCG	β_0	1,752,534.2	2,734,622.5	3,117,834.5	3,042,059.2	2,434,644.5
		(135,844.1)	(88,830.2)	(72,484.0)	(70,994.5)	(83,781.4)
	$\beta_{1–4}$	127,346.4	153,261.7	130,557.9	127,539.0	15,335.4
		(46,316.9)	(30,677.2)	(25,298.2)	(27,700.0)	(35,891.6)
	$\beta_{5–9}$	49,503.3	19,057.9	49,331.9	650.2	−29,732.4
		(50,566.9)	(33,100.4)	(27,301.9)	(30,713.0)	(40,038.1)
Obs		26,684	102,823	182,483	169,479	114,177
Clusters		1,360	4,524	7,363	7,347	5,298
Pre-Deal Wage Mean		100,876.9	198,501.0	227,050.5	236,436.6	152,963.4
Pre-Deal Emp Mean		0.7779	0.7968	0.8139	0.8154	0.5785
Pre-Deal Biz Inc Mean		471,772.2	608,183.4	733,498.4	732,917.6	696,326.4
Pre-Deal LTCG Mean		81,529.7	174,369.8	196,131.6	208,279.1	269,563.9

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample includes our entire owner panel data set. We assign owners to an age group based on their age in the year before acquisitions and each column displays estimates from regressions performed separately on owners in each age group. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for owners of acquired firms in the year before the acquisition.

Table 12: Impacts of PE Acquisitions on Working Owners and Non-Owners

	(1)	(2)	(3)	(4)	(5)	(6)
	Owners			Not Owners		
	Wages	Emp	LTCG	Wages	Emp	LTCG
β_0	−23,343.9	−0.0076	389,678.7	5,474.1	0.0025	3,602.0
	(2,074.3)	(0.0024)	(7,140.2)	(624.1)	(0.0013)	(264.7)
$\beta_{1–4}$	−87,227.2	−0.2686	62,675.3	−1,329.0	−0.0029	266.1
	(2,792.6)	(0.0066)	(4,266.6)	(649.9)	(0.0025)	(165.2)
$\beta_{5–9}$	−87,015.9	−0.3107	20,839.8	−672.0	0.0026	311.9
	(3,781.4)	(0.0088)	(4,644.1)	(902.9)	(0.0040)	(265.1)
Obs	341,673	341,673	341,673	27,499,486	27,499,486	27,499,486
Clusters	11,284	11,284	11,284	20,070	20,070	20,070
R^2	0.67	0.51	0.41	0.73	0.36	0.31
Pre-Deal Mean	253,454.2	1.0000	37,810.7	81,410.1	1.0000	483.5

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample in the first 3 columns includes all owners in our workers panel, while the estimation sample in columns 4-6 includes all non-owners in our workers panel. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers at acquired firms in the year before the acquisition.

Table 13: Impacts of PE Acquisitions on Workers With and Without Owners

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		With Owners				Without Owners			
Outcome		Full	WQ5	55-65	Manager	Full	WQ5	55-65	Manager
Wages	β_0	5,136.9	15,083.5	4,635.0	11,294.4	5,474.1	17,307.0	5,560.2	13,758.1
		(615.1)	(1,557.9)	(631.0)	(1,236.3)	(624.1)	(1,651.5)	(663.7)	(1,335.1)
	$\beta_{1–4}$	−2,316.7	−10,333.6	−7,668.4	−10,954.4	−1,329.0	−5,720.1	−5,144.4	−5,304.9
		(654.6)	(2,077.0)	(847.8)	(1,991.2)	(649.9)	(2,105.1)	(911.8)	(1,808.5)
	$\beta_{5–9}$	−1,542.1	−8,740.4	−6,675.2	−9,580.9	−672.0	−4,605.2	−4,581.0	−4,920.4
		(906.8)	(2,280.3)	(1,710.3)	(2,421.5)	(902.9)	(2,255.3)	(1,851.5)	(2,042.0)
Employment	β_0	0.0024	0.0007	0.0033	0.0011	0.0025	0.0010	0.0035	0.0017
		(0.0013)	(0.0010)	(0.0033)	(0.0014)	(0.0013)	(0.0011)	(0.0034)	(0.0015)
	$\beta_{1–4}$	−0.0061	−0.0245	−0.0289	−0.0267	−0.0029	−0.0115	−0.0217	−0.0095
		(0.0025)	(0.0026)	(0.0055)	(0.0045)	(0.0025)	(0.0024)	(0.0057)	(0.0039)
	$\beta_{5–9}$	−0.0008	−0.0226	−0.0291	−0.0208	0.0026	−0.0082	−0.0208	−0.0034
		(0.0041)	(0.0046)	(0.0081)	(0.0064)	(0.0040)	(0.0044)	(0.0081)	(0.0054)
LTCG	β_0	8,250.4	35,408.9	16,404.5	31,948.1	3,602.0	15,181.5	6,416.3	11,349.0
		(444.6)	(1,785.3)	(913.9)	(2,098.5)	(264.7)	(1,009.2)	(497.5)	(950.8)
	$\beta_{1–4}$	991.3	5,215.5	2,461.2	5,580.0	266.1	1,932.7	740.5	2,011.7
		(183.0)	(669.1)	(349.9)	(638.9)	(165.2)	(601.3)	(289.7)	(434.9)
	$\beta_{5–9}$	581.5	3,081.9	1,134.2	3,754.7	311.9	1,858.2	435.7	2,181.0
		(262.4)	(752.5)	(436.3)	(677.1)	(265.1)	(782.0)	(418.7)	(607.1)
Obs		27,841,160	5,685,773	4,451,920	1,912,256	27,499,486	5,392,906	4,344,591	1,813,885
Clusters		20,075	20,075	18,692	16,501	20,070	19,798	18,464	15,871
Pre-Deal Wage Mean		83,487.4	170,092.9	91,668.1	131,821.5	81,410.1	164,196.4	87,245.7	124,591.6
Pre-Deal Employment Mean		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		934.2	3,743.6	1,545.2	3,619.0	483.5	1,960.6	730.4	1,709.3

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample in the first 4 columns includes all workers in our workers panel, while the estimation sample in columns 5-8 excludes all owners from the workers panel. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers at acquired firms in the year before the acquisition.

Table 14: Impacts of Add-on and Non-Add-on PE Acquisitions on Workers With Owners

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		Add-on				Not Add-on			
Outcome		Full	WQ5	55-65	Manager	Full	WQ5	55-65	Manager
Wages	β_0	4,005.5	12,320.2	3,972.0	9,309.6	6,178.0	17,689.4	5,252.6	12,978.8
		(461.2)	(1,241.5)	(569.3)	(1,208.2)	(1,110.3)	(2,793.5)	(1,089.9)	(2,124.9)
	$\beta_{1–4}$	−2,895.0	−12,047.5	−8,681.7	−14,612.9	−1,788.7	−8,746.7	−6,771.9	−7,887.3
		(636.1)	(2,498.6)	(957.6)	(2,439.7)	(1,120.7)	(3,304.1)	(1,361.4)	(2,909.6)
	$\beta_{5–9}$	−1,843.4	−8,314.1	−6,148.6	−12,298.3	−1,358.1	−9,191.7	−7,345.5	−7,744.3
		(1,146.9)	(3,413.9)	(2,504.3)	(3,943.4)	(1,390.5)	(3,189.5)	(2,384.1)	(2,881.1)
Employment	β_0	0.0035	0.0011	0.0025	−0.0006	0.0012	0.0002	0.0040	0.0027
		(0.0015)	(0.0010)	(0.0053)	(0.0018)	(0.0021)	(0.0018)	(0.0042)	(0.0022)
	$\beta_{1–4}$	−0.0115	−0.0344	−0.0469	−0.0427	−0.0013	−0.0153	−0.0115	−0.0131
		(0.0036)	(0.0042)	(0.0064)	(0.0067)	(0.0035)	(0.0032)	(0.0077)	(0.0059)
	$\beta_{5–9}$	−0.0072	−0.0329	−0.0489	−0.0341	0.0039	−0.0141	−0.0120	−0.0113
		(0.0064)	(0.0082)	(0.0086)	(0.0117)	(0.0052)	(0.0052)	(0.0118)	(0.0068)
LTCG	β_0	10,899.4	46,414.7	20,632.0	43,646.8	5,751.1	24,926.9	11,892.0	21,840.6
		(741.1)	(2,948.4)	(1,598.1)	(2,803.4)	(504.4)	(2,042.7)	(976.4)	(2,522.0)
	$\beta_{1–4}$	1,359.0	6,552.5	2,929.2	7,763.7	643.0	3,951.0	1,932.7	3,609.1
		(256.3)	(1,058.0)	(574.6)	(750.1)	(259.5)	(817.2)	(400.9)	(915.2)
	$\beta_{5–9}$	243.1	1,887.9	251.0	3,489.5	821.6	3,937.6	1,918.9	3,503.2
		(318.8)	(1,077.7)	(595.2)	(862.8)	(397.3)	(1,037.4)	(581.2)	(1,060.9)
Obs		13,148,466	2,704,640	2,171,677	882,765	14,532,266	2,947,669	2,254,406	1,019,217
Clusters		13,042	13,042	12,049	10,664	6,836	6,836	6,466	5,690
Pre-Deal Wage Mean		79,839.8	161,226.8	89,298.2	126,889.6	86,905.1	178,512.3	94,193.7	136,044.4
Pre-Deal Employment Mean		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		1,044.8	3,939.2	1,685.9	4,134.8	830.5	3,557.9	1,395.3	3,177.4

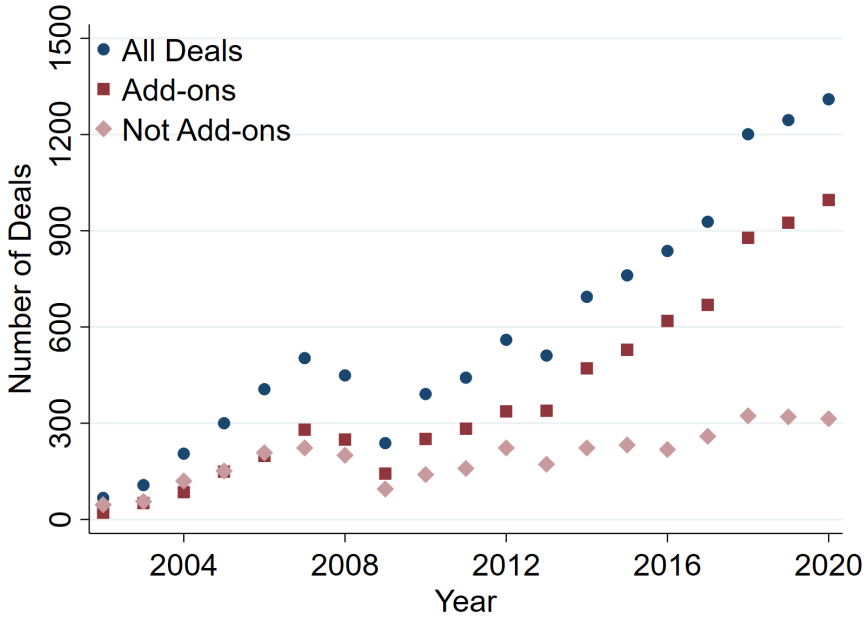
Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample in the first 4 columns includes all workers in our workers panel that are associated with add-on acquisitions, while the estimation sample in columns 5-8 includes all workers that are associated with acquisitions that are not add-ons. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers at acquired firms in the year before the acquisition.

Table 15: Impacts of Add-on and Non-Add-on PE Acquisitions on Workers Without Owners

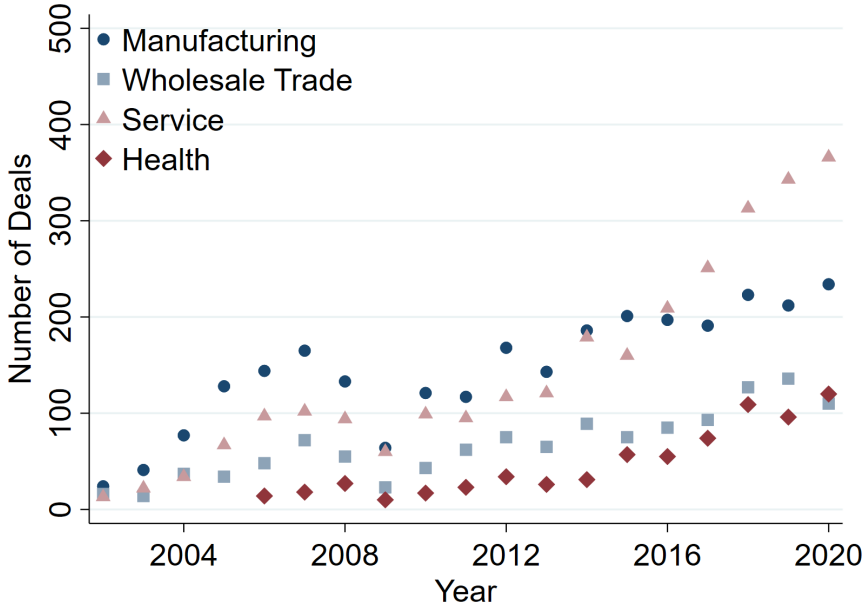
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		Add-on				Not Add-on			
Outcome		Full	WQ5	55-65	Manager	Full	WQ5	55-65	Manager
Wages	β_0	4,430.4	15,110.4	5,023.2	12,628.7	6,422.1	19,283.6	6,005.1	14,683.6
		(462.9)	(1,342.7)	(608.6)	(1,190.3)	(1,121.5)	(2,899.0)	(1,125.3)	(2,262.6)
	$\beta_{1–4}$	−1,619.6	−6,150.2	−5,625.0	−6,750.1	−1,075.4	−5,383.6	−4,856.9	−4,112.5
		(607.4)	(2,489.6)	(1,019.6)	(2,222.9)	(1,119.9)	(3,343.2)	(1,445.6)	(2,703.4)
	$\beta_{5–9}$	−735.1	−2,995.8	−3,731.3	−4,994.8	−706.6	−6,112.5	−5,634.7	−4,980.3
		(1,122.7)	(3,297.9)	(2,756.9)	(3,431.1)	(1,391.0)	(3,181.1)	(2,546.1)	(2,419.0)
Employment	β_0	0.0036	0.0016	0.0028	0.0002	0.0013	0.0004	0.0042	0.0030
		(0.0015)	(0.0010)	(0.0054)	(0.0019)	(0.0021)	(0.0018)	(0.0042)	(0.0023)
	$\beta_{1–4}$	−0.0072	−0.0175	−0.0377	−0.0186	0.0008	−0.0063	−0.0065	−0.0021
		(0.0035)	(0.0037)	(0.0068)	(0.0058)	(0.0034)	(0.0030)	(0.0078)	(0.0053)
	$\beta_{5–9}$	−0.0026	−0.0139	−0.0381	−0.0080	0.0063	−0.0039	−0.0062	−0.0005
		(0.0063)	(0.0078)	(0.0089)	(0.0101)	(0.0051)	(0.0050)	(0.0118)	(0.0059)
LTCG	β_0	4,508.1	19,176.1	7,524.4	14,474.3	2,745.2	11,503.2	5,274.2	8,635.4
		(409.8)	(1,562.1)	(791.9)	(1,139.4)	(334.5)	(1,281.8)	(610.6)	(1,348.7)
	$\beta_{1–4}$	381.1	2,219.2	665.4	2,590.9	154.9	1,674.8	810.9	1,358.9
		(228.1)	(1,003.2)	(481.9)	(494.7)	(241.3)	(708.1)	(332.4)	(687.6)
	$\beta_{5–9}$	43.7	990.7	−278.2	1,715.6	507.5	2,488.9	1,089.4	2,142.3
		(327.6)	(1,191.2)	(591.7)	(908.4)	(400.9)	(1,038.3)	(564.8)	(876.0)
Obs		12,924,503	2,514,803	2,100,768	819,343	14,416,692	2,846,526	2,218,716	984,902
Clusters		13,039	12,822	11,879	10,184	6,834	6,782	6,412	5,545
Pre-Deal Wage Mean		77,092.3	153,322.7	83,709.1	116,982.4	85,419.8	174,144.2	90,950.6	130,830.5
Pre-Deal Employment Mean		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		446.9	1,645.0	677.7	1,464.8	517.5	2,249.5	785.5	1,909.8

Notes: This table reports difference in difference estimates of β from equation (1), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample in the first 4 columns includes all workers in our workers panel except for owners that are associated with add-on acquisitions, while the estimation sample in columns 5-8 includes all workers except for owners that are associated with acquisitions that are not add-ons. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers at acquired firms in the year before the acquisition.

A Additional Tables and Figures



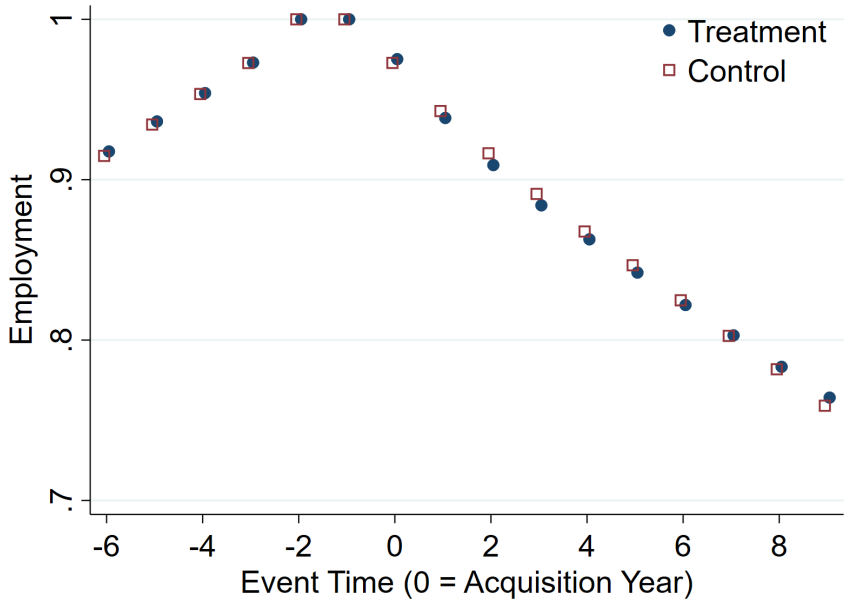
(a) Employment



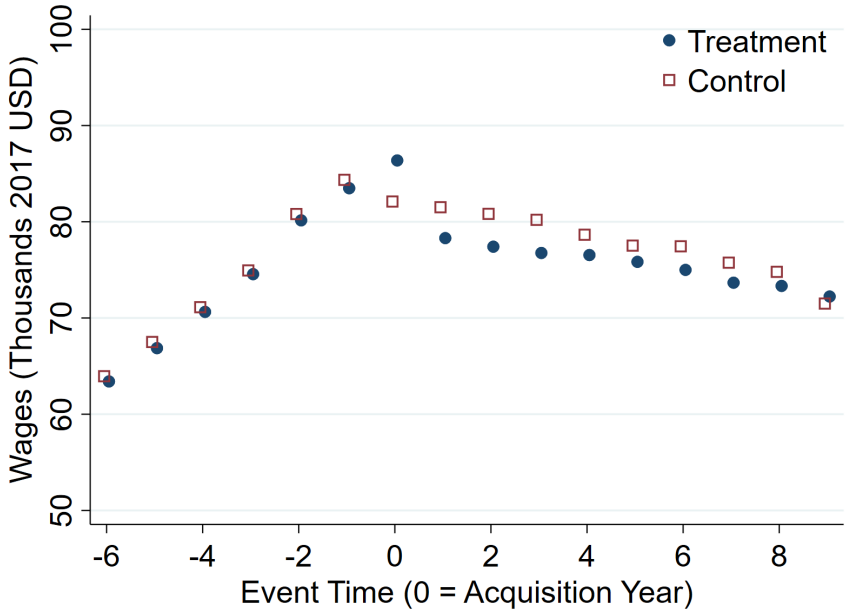
(b) Wages

Figure A.1: Number of PE Deals

Notes: This figure displays the number of matched private equity deals in each year in our sample.



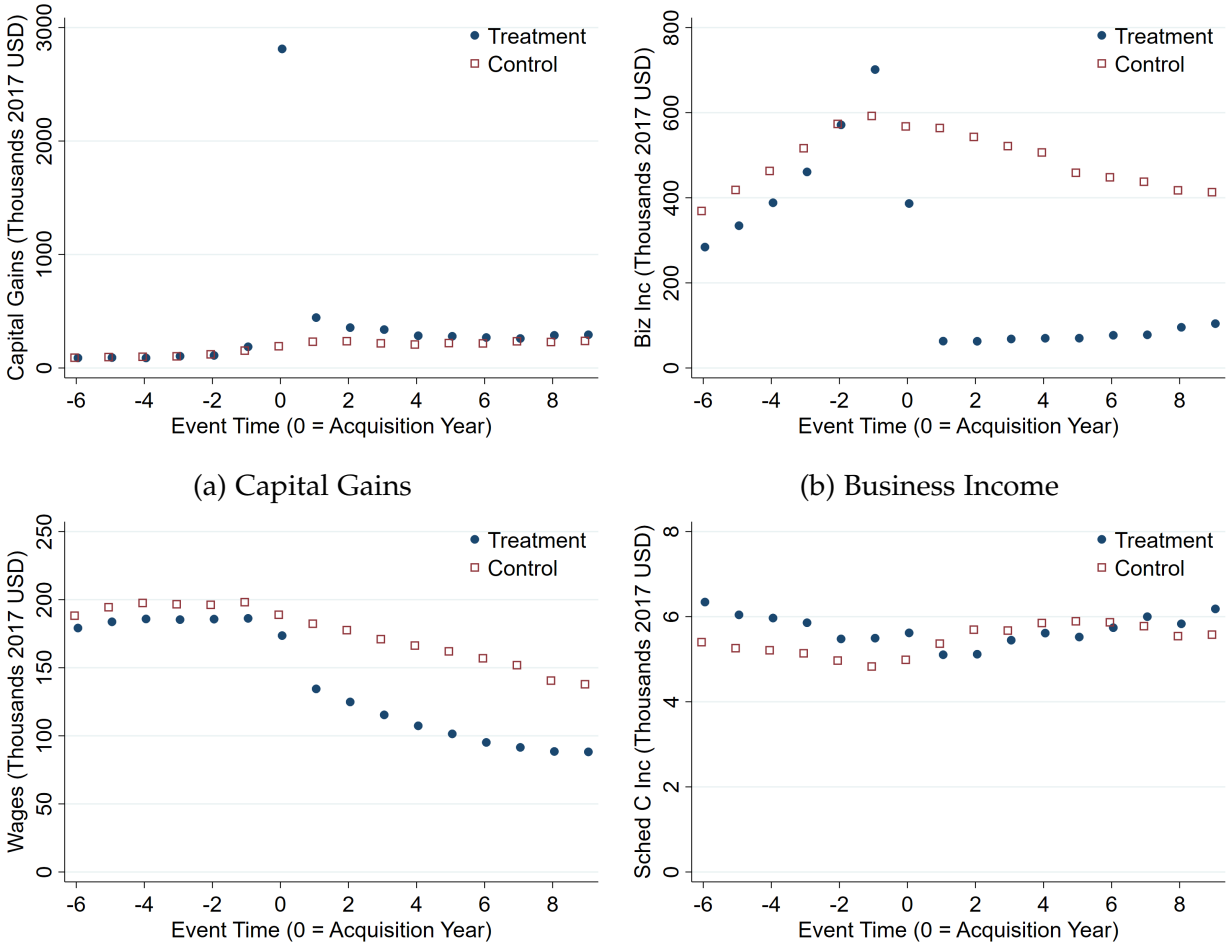
(a) Employment



(b) Wages

Figure A.2: Worker Treatment and Control Raw Means

Notes: This figure displays average raw means of employment and wages by event time for all treatment and control workers in our workers panel. Workers are matched conditional on employment two-years prior to the buyout.



(a) Capital Gains

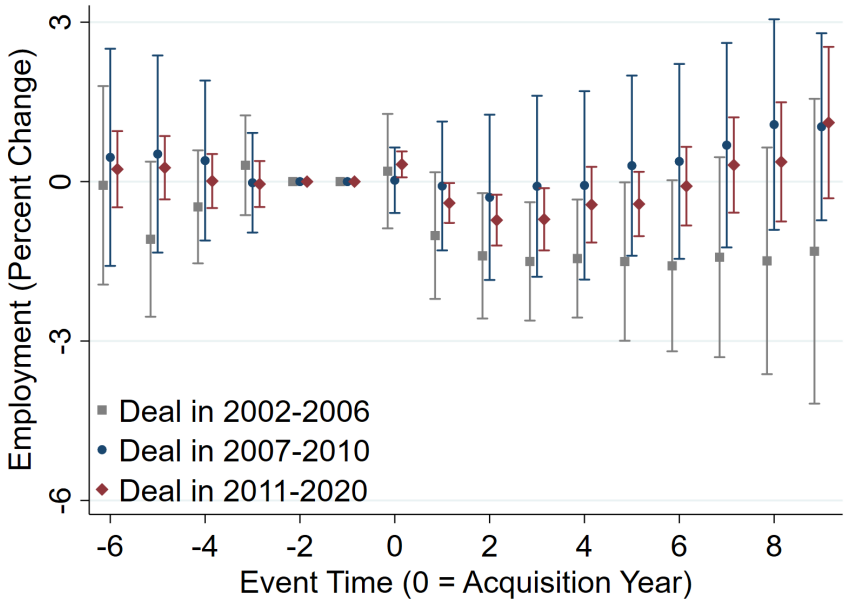
(b) Business Income

(c) Wages

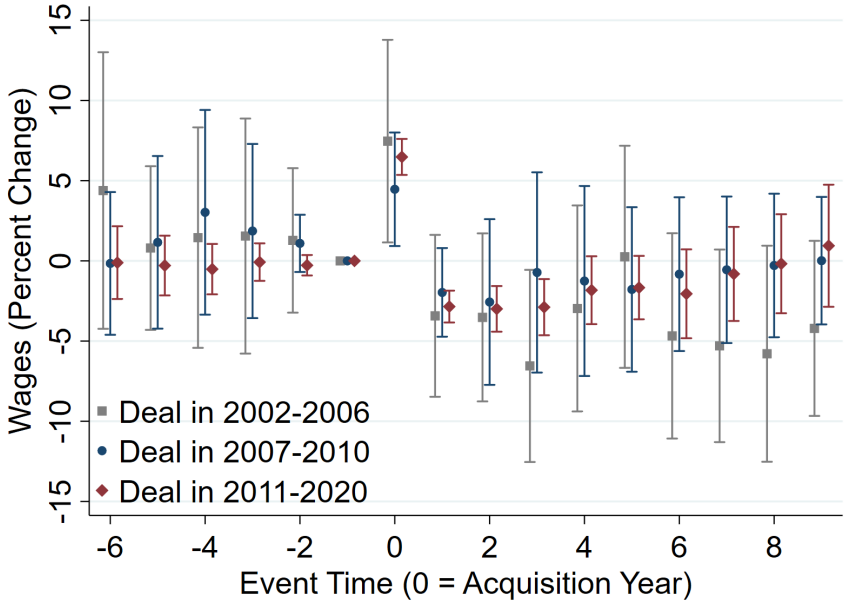
(d) Sole Proprietor Income

Figure A.3: Owner Treatment and Control Raw Means

Notes: This figure displays average raw means of long-term capital gains, business income, wages, and sole proprietor income by event time for all treatment and control owners in our owners panel.



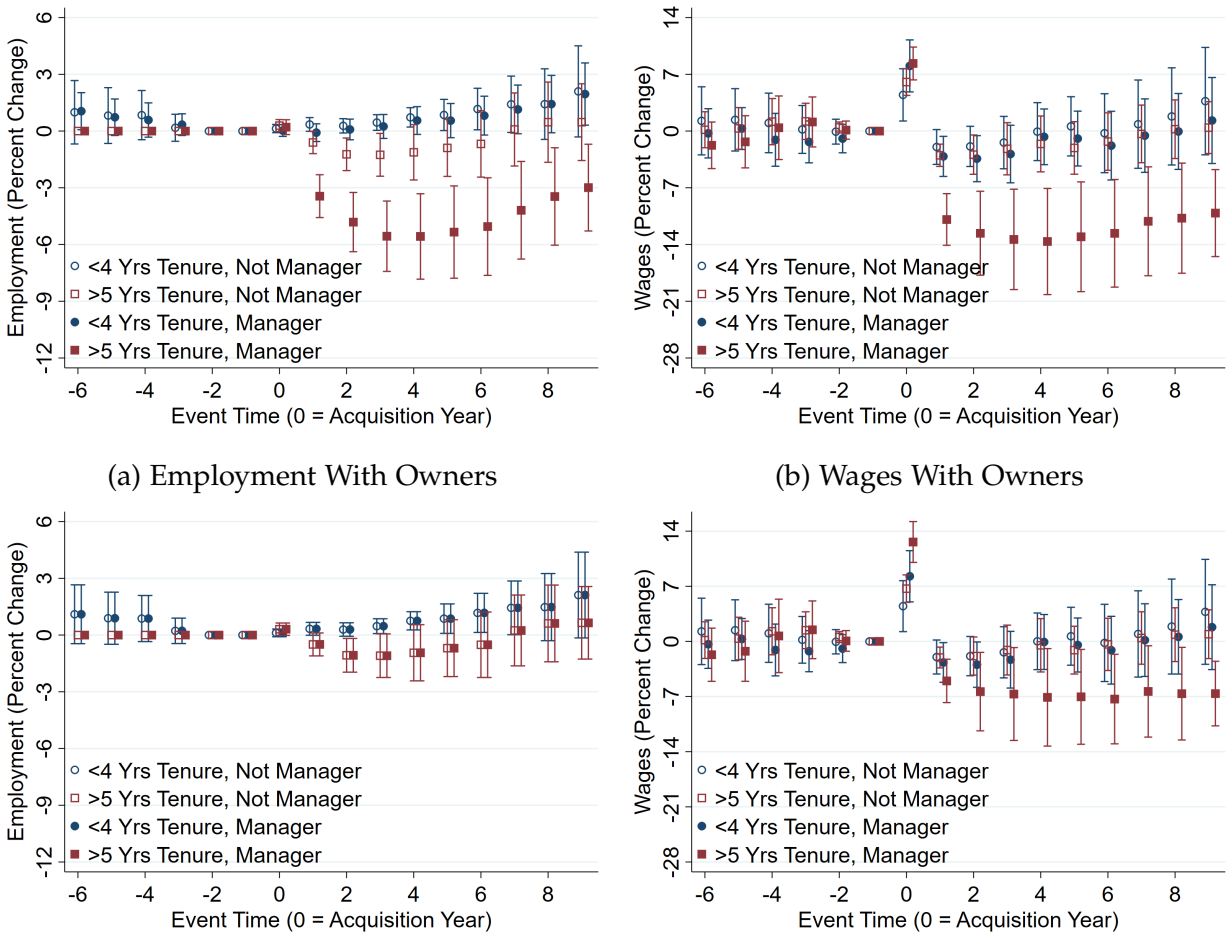
(a) Employment



(b) Wages

Figure A.4: Impacts of PE Acquisitions by Time Period

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using employment as an outcome variable in panel (a) and wages in panel (b). The three series in each panel display estimates from separate regressions restricting to the sample of workers associated with deals taking place in different time periods. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment With Owners

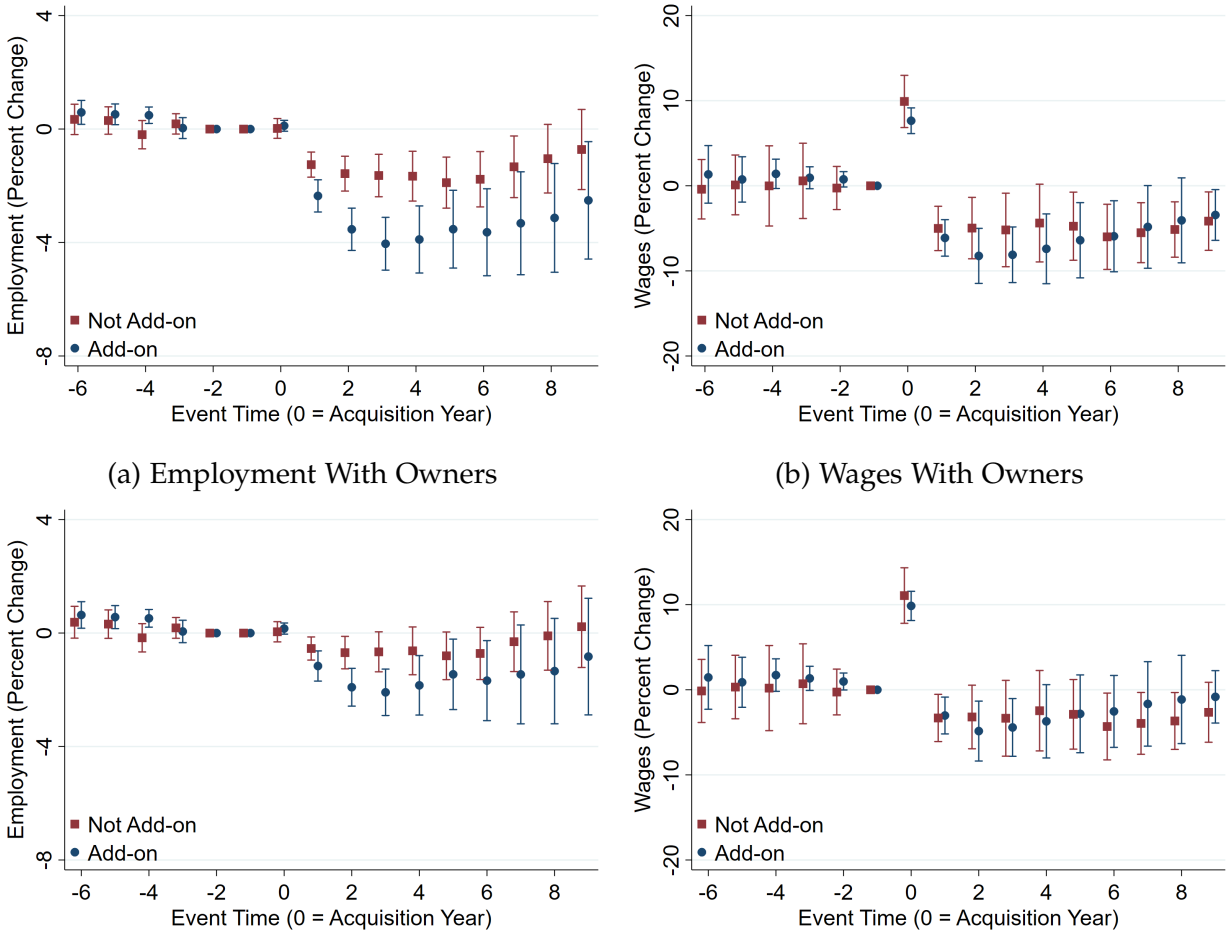
(b) Wages With Owners

(c) Employment Without Owners

(d) Wages Without Owners

Figure A.5: Impacts of PE Acquisitions by Managerial Status and Tenure

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using employment as an outcome variable in panels (a) and (c) and wages in panels (b) and (d). The four series in each panel display estimates from separate regressions restricting to the sample of workers that are and are not managers, with less than 4 and more than 5 years of tenure. Panels (a) and (b) show estimates from our worker sample including owners, while panels (c) and (d) exclude owners from the sample. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment With Owners

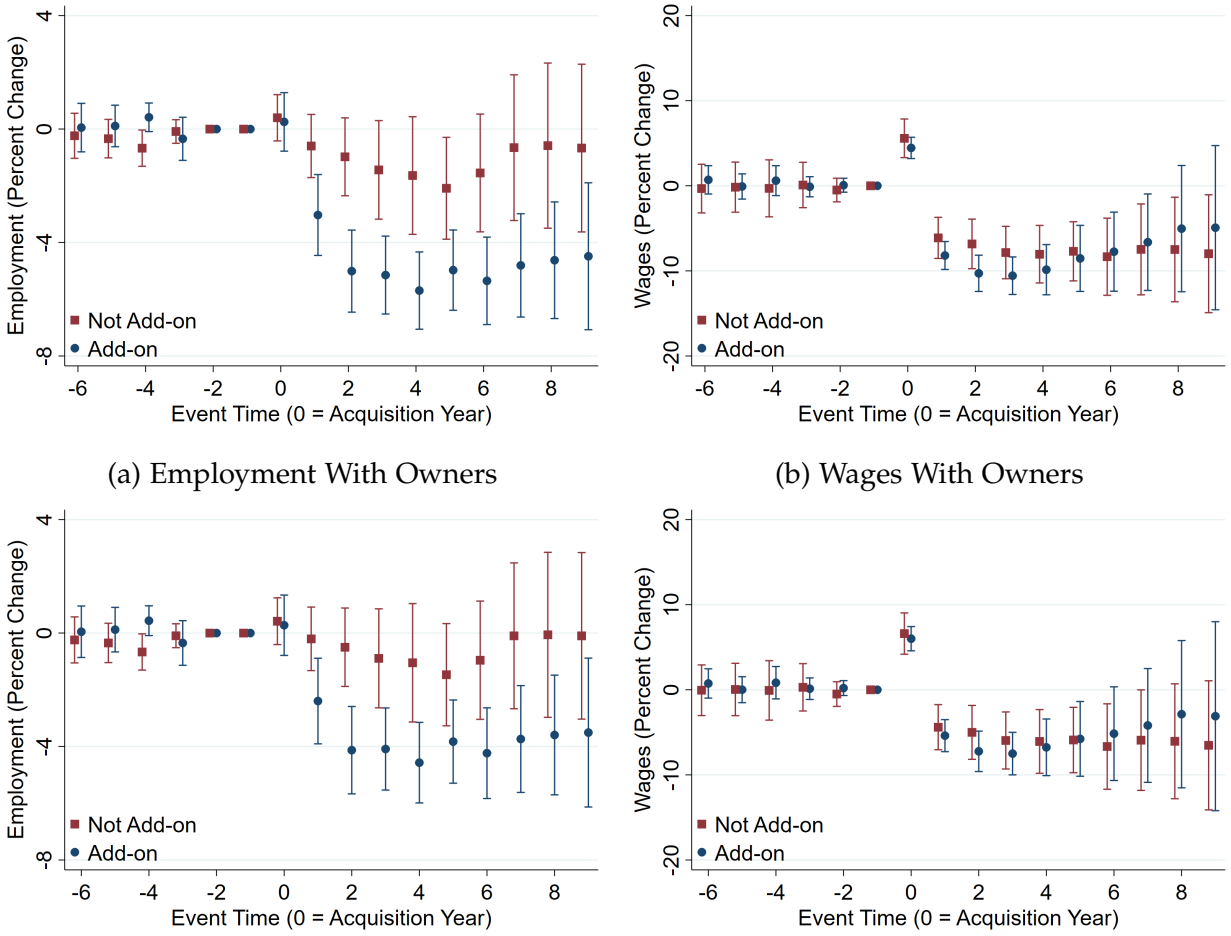
(b) Wages With Owners

(c) Employment Without Owners

(d) Wages Without Owners

Figure A.6: Employment Impacts of Add-On PE Acquisitions on High Wage Workers

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed as an outcome variable in panels (a) and (c), and wages as an outcome variable in panels (b) and (d). Each panel displays separate regression estimates performed on the sample of top wage quintile workers in our worker sample that are and are not associated with add-on acquisitions. Panels (a) and (b) include owners, while panels (c) and (d) exclude owners. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the specified age range in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment With Owners

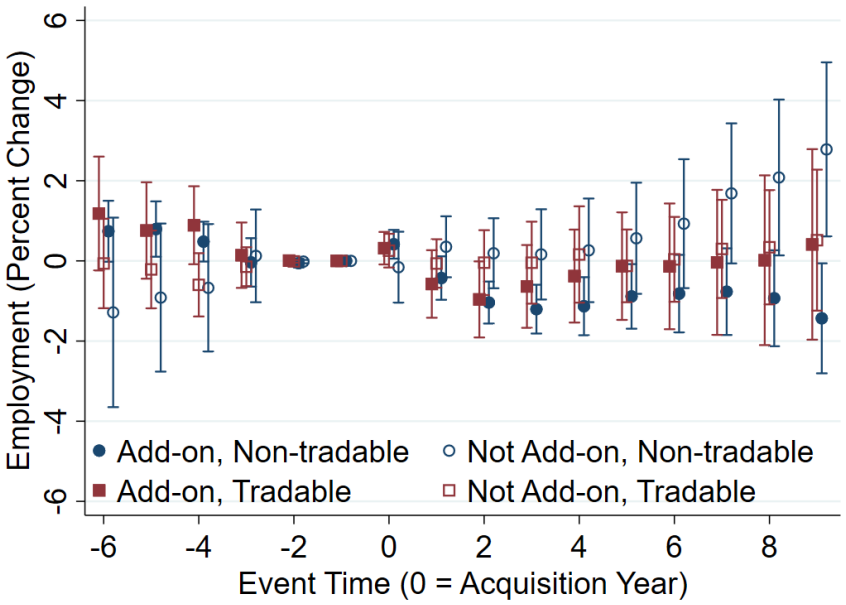
(b) Wages With Owners

(c) Employment Without Owners

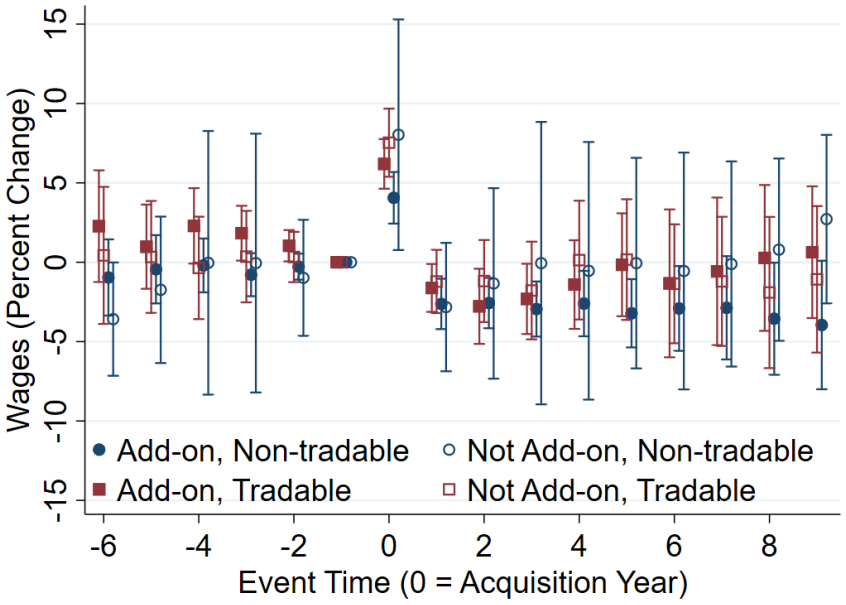
(d) Wages Without Owners

Figure A.7: Employment Impacts of Add-On PE Acquisitions on Older Workers

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using a dummy variable equal to 1 if a worker is employed as an outcome variable in panels (a) and (c), and wages as an outcome variable in panels (b) and (d). Each panel displays separate regression estimates performed on the sample of age 55-65 workers in our worker sample that are and are not associated with add-on acquisitions. Panels (a) and (b) include owners, while panels (c) and (d) exclude owners. To scale estimates into percent changes we divide coefficient estimates by the average value of the outcome variable for workers employed at acquired firms in the specified age range in the year before the acquisition. 95% Confidence intervals are constructed from standard errors clustered at the firm level.



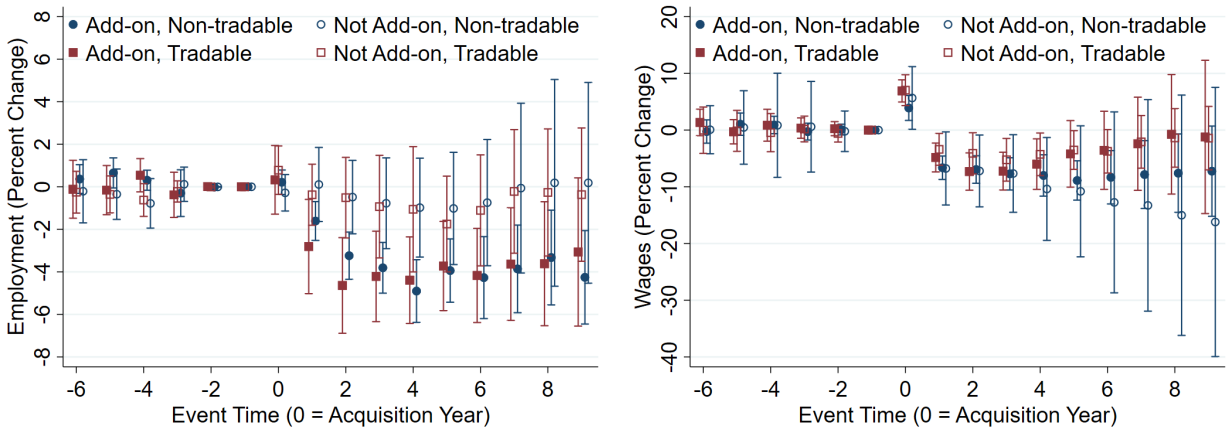
(a) Employment



(b) Wages

Figure A.8: Impacts of Add-on PE Acquisitions by Sector

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using employment as an outcome variable in panel (a) and wages in panel (b). The four series in each panel display estimates from separate regressions restricting to the sample of works involved in Add-on deals or not, in tradable industries or not, using the geographic tradable definition from Mian and Sufi (2014). 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) 55-65 Employment

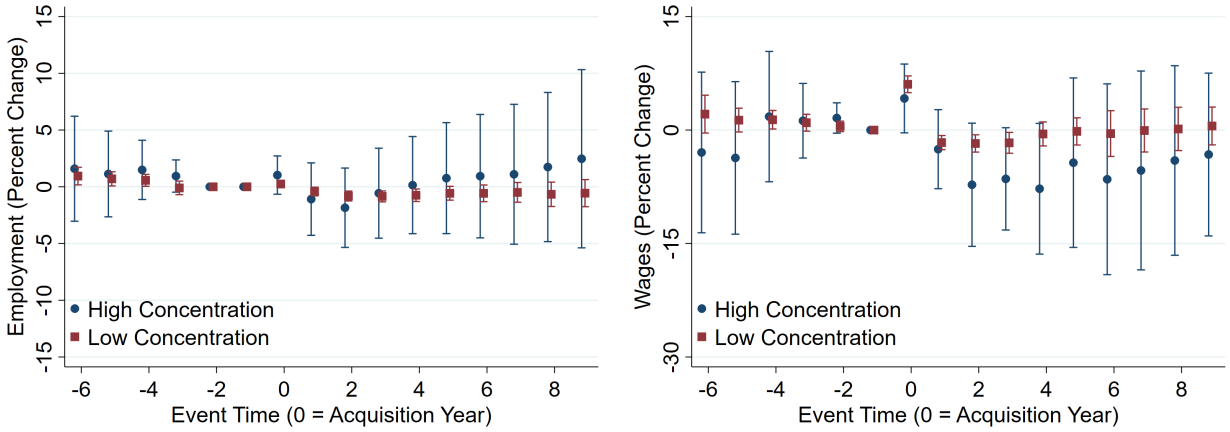
(b) 55-65 Wages

(c) WQ5 Employment

(d) WQ5 Wages

Figure A.9: Impacts of Add-on PE Acquisitions by Sector, Age, and Wage Quintile

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using employment as an outcome variable in panels (a) and (c) and wages in panels (b) and (d). Panels (a) and (b) restrict to workers ages 55-65 in the year before acquisitions, and panels (c) and (d) restrict to workers in the top quintile of the wage distribution in the year before acquisitions. The four series in each panel display estimates from separate regressions restricting to the sample of workers involved in Add-on deals or not, in tradable industries or not, using the geographic tradable definition from Mian and Sufi (2014). 95% Confidence intervals are constructed from standard errors clustered at the firm level.



(a) Employment

(b) Wages

Figure A.10: Impacts of Add-on PE Acquisitions by Concentration

Notes: This figure displays difference-in-difference estimates of the β_e coefficients from equation (1) using employment as an outcome variable in panel (a) and wages in panel (b). The two series in each panel display estimates from separate regressions restricting to the sample of workers involved in Add-on deals associated with larger and smaller levels and changes in concentration. 95% Confidence intervals are constructed from standard errors clustered at the firm level.

Table A.1: Worker Sample Balance

	Treatment		Control	
	Mean	Median	Mean	Median
Wages	83,487	59,749	84,357	58,346
LTCG	934	0	1327	0
Sched C Inc	196	0	224	0
Unemployment	223	0	233	0
Disability	17	0	16	0
OASI	485	0	599	0
Taxes	17,781	7,054	18,285	6,794
Age	42.9	42.5	43.7	43.5
Observations	1,015,380		955,640	
% Male	65.0		64.8	
% Manager	16.1		14.0	
% Add-on	48.4		.	

Notes: This table reports means and medians separately for the treatment and control groups in a cross section of the worker sample from the year before private equity acquisitions. Statistics are expressed in 2017 USD, except for counts, ages, and explicitly stated percentages. The bottom section of the table reports the number of observations in the treatment and control groups and the percent of the treatment and control groups that are male, that work in managerial occupations, and that are employed at a firm acquired in an addon acquisition. As discussed in the text, our occupation flag is only available for a subset of workers. To preserve taxpayer anonymity, percentile statistics are reported as the means of all observations in the (P-1,P+1)th percentiles.

Table A.2: Owner Sample Balance

	Treatment		Control	
	Mean	Median	Mean	Median
Wages	186,252	94,327	198,157	86,860
Business Inc	701,356	209,210	592,305	151,805
LTCG	186,733	0	153,173	0
Sched C Inc	196	0	224	0
Taxes	342,260	101,090	305,765	86,817
Age	55.7	53.5	54.5	53.5
Observations	23,002		24,969	
% Male	77.4		76.7	

Notes: This table reports means and medians separately for the treatment and control groups in a cross section of the owner sample from the year before private equity acquisitions. Statistics are expressed in 2017 USD, except for counts, ages, and explicitly stated percentages. The bottom section of the table reports the number of observations in the treatment and control groups and the percent of the treatment and control groups that are male. To preserve taxpayer anonymity, percentile statistics are reported as the means of all observations in the (P-1,P+1)th percentiles.

Table A.3: Sample Overlap for High Incidence Groups

	(1) Full Samp	(2) Owners	(3) WQ5	(4) 55-65	(5) Managers
Panel A: Full Worker Sample					
Total Count	1,971,020	25,024	402,726	319,762	
% Owners	1	100	5	2	
% WQ5	20	86	100	27	
% 55-65	16	32	21	100	
Panel B: Occupation Sample					
Total Count	921,463	15,164	202,162	152,232	138,685
% Owners	2	100	6	3	5
% WQ5	22	87	100	29	45
% 55-65	17	33	22	100	18
% Managers	15	49	31	17	100

Notes: This table reports the total number of workers, owners, top wage quintile workers, 55-65 workers, and managers, and the fraction of each group that are owners, top wage quintile, 55-65, and managers. Panel A reports statistics for the entire worker sample, while Panel B reports statistics for our occupation sample.

Table A.4: Net Present Value Impacts of PE Acquisitions on Workers

	(1) Full Sample	(2) WQ5	(3) 55-65	(4) Manager	(5) Rank & File
			Panel A: 5% Discount Rate		
Wages	−8,480.7	−52,235.4	−46,021.8	−61,244.6	2,715.3
	(5,116.9)	(15,114.5)	(8,816.1)	(15,223.0)	(5,975.7)
	[−2.9, 0.2]	[−6.7, −1.9]	[−12.6, −5.7]	[−9.2, −3.2]	[−1.7, 2.7]
LTCG	13,868.9	64,943.6	29,183.5	65,054.1	619.5
	(1,530.4)	(5,229.8)	(3,002.5)	(5,725.6)	(962.7)
	[50.3, 78.1]	[71.3, 98.0]	[70.1, 105.5]	[75.9, 107.6]	[−18.0, 35.6]
			Panel B: 7% Discount Rate		
Wages	−7,482.6	−46,925.6	−41,943.9	−55,442.6	2,477.7
	(4,641.7)	(13,824.8)	(7,925.0)	(13,883.4)	(5,382.9)
	[−2.8, 0.3]	[−6.5, −1.8]	[−12.2, −5.6]	[−8.9, −3.1]	[−1.7, 2.7]
LTCG	13,481.0	62,910.1	28,385.2	62,677.3	609.2
	(1,411.1)	(4,887.9)	(2,795.6)	(5,405.5)	(871.7)
	[54.0, 81.8]	[75.5, 102.6]	[74.8, 110.5]	[79.7, 112.1]	[−17.1, 36.0]
			Panel B: 9% Discount Rate		
Wages	−6,597.5	−42,239.1	−38,349.5	−50,326.8	2,283.5
	(4,229.0)	(12,693.8)	(7,159.5)	(12,711.1)	(4,871.1)
	[−2.7, 0.3]	[−6.3, −1.6]	[−11.8, −5.5]	[−8.7, −2.9]	[−1.6, 2.6]
LTCG	13,138.1	61,109.9	27,673.6	60,577.4	602.7
	(1,309.5)	(4,596.3)	(2,617.9)	(5,129.7)	(793.8)
	[57.6, 85.6]	[79.8, 107.4]	[79.5, 115.7]	[83.5, 116.7]	[−16.1, 36.5]

Notes: This table reports the net present value of cumulative post-reform difference in difference estimates of β from equation (1) for each year from the year of the acquisition through 9 years after the acquisition, using a discount rate of 5% in Panel A, 7% in Panel B, and 9% in Panel C. The estimation sample in column 1 includes our entire worker panel data set. Columns 2, 3, and 4 restrict to top wage quintile workers, 55-65 year old workers at the time of the acquisition, and managers. Column 5 restricts to all workers that are not in the top wage quintile, are less than 55 years old at the time of the acquisition, and are not managers. Standard errors are clustered at the firm level and reported in parentheses. We report 95% confidence intervals in percentage terms in brackets, scaling the coefficient estimate by the net present value of the sum of the outcome variable for the control group from the year of the acquisition through 9 years after the acquisition.

Table A.5: Net Present Value Impacts of PE Acquisitions on Workers Excluding Owners

	(1) Full Sample	(2) WQ5	(3) 55-65	(4) Manager	(5) Rank & File
			Panel A: 5% Discount Rate		
Wages	−1,583.3	−19,103.0	−28,794.2	−22,414.3	2,794.0
	(5,078.7)	(15,121.0)	(9,619.0)	(13,106.6)	(5,978.4)
	[−1.8, 1.3]	[−4.0, 0.9]	[−9.5, −2.0]	[−4.8, 0.3]	[−1.7, 2.8]
LTCG	5,667.3	28,636.3	10,556.0	26,276.9	370.2
	(1,403.4)	(4,589.2)	(2,434.2)	(3,726.1)	(874.0)
	[13.5, 39.0]	[25.6, 49.1]	[17.4, 46.1]	[26.8, 47.4]	[−19.1, 29.6]
			Panel B: 7% Discount Rate		
Wages	−1,110.7	−16,284.6	−26,002.9	−19,461.7	2,546.9
	(4,606.9)	(13,841.9)	(8,651.6)	(11,978.4)	(5,385.5)
	[−1.7, 1.3]	[−3.8, 1.0]	[−9.1, −1.9]	[−4.6, 0.4]	[−1.6, 2.7]
LTCG	5,481.8	27,518.4	10,268.7	24,988.2	349.3
	(1,274.9)	(4,203.3)	(2,227.7)	(3,432.0)	(787.7)
	[15.0, 40.2]	[27.3, 50.6]	[19.3, 47.8]	[27.9, 48.5]	[−18.6, 29.4]
			Panel B: 9% Discount Rate		
Wages	−689.0	−13,793.6	−23,544.1	−16,863.9	2,344.5
	(4,197.5)	(12,719.7)	(7,820.0)	(10,990.3)	(4,873.5)
	[−1.6, 1.4]	[−3.7, 1.1]	[−8.7, −1.8]	[−4.5, 0.5]	[−1.6, 2.6]
LTCG	5,319.8	26,536.6	10,013.0	23,859.7	333.8
	(1,164.6)	(3,872.4)	(2,050.0)	(3,180.1)	(713.9)
	[16.6, 41.4]	[29.0, 52.3]	[21.1, 49.5]	[29.1, 49.7]	[−18.0, 29.3]

Notes: This table reports the net present value of cumulative post-reform difference in difference estimates of β from equation (1) for each year from the year of the acquisition through 9 years after the acquisition, using a discount rate of 5% in Panel A, 7% in Panel B, and 9% in Panel C. The estimation sample in column 1 includes our entire worker panel data set. Columns 2, 3, and 4 restrict to top wage quintile workers, 55-65 year old workers at the time of the acquisition, and managers. Column 5 restricts to all workers that are not in the top wage quintile, are less than 55 years old at the time of the acquisition, and are not managers. All samples exclude owners. Standard errors are clustered at the firm level and reported in parentheses. We report 95% confidence intervals in percentage terms in brackets, scaling the coefficient estimate by the net present value of the sum of the outcome variable for the control group from the year of the acquisition through 9 years after the acquisition.

Table A.6: Net Present Value Impacts of Add-on PE Acquisitions on Workers Excluding Owners

	(1) Full Sample	(2) WQ5	(3) 55-65	(4) Manager	(5) Rank & File
			Panel A: 5% Discount Rate		
Wages	−3,799.1	−16,701.9	−27,645.8	−28,546.2	−3,056.4
	(5,877.9)	(20,909.1)	(13,586.6)	(20,595.3)	(6,041.3)
	[−2.5, 1.3]	[−5.0, 2.1]	[−11.3, −0.2]	[−7.5, 1.3]	[−2.8, 1.7]
LTCG	6,014.3	30,567.2	8,811.4	29,855.5	392.7
	(1,881.7)	(7,328.8)	(3,801.5)	(4,557.4)	(931.0)
	[14.7, 61.1]	[29.4, 81.4]	[5.8, 69.9]	[45.3, 83.9]	[−23.8, 36.8]
			Panel B: 7% Discount Rate		
Wages	−3,257.1	−14,572.7	−25,241.6	−25,391.8	−2,799.0
	(5,318.3)	(19,105.6)	(12,118.3)	(18,755.0)	(5,437.1)
	[−2.4, 1.3]	[−4.9, 2.1]	[−10.8, −0.3]	[−7.2, 1.3]	[−2.8, 1.6]
LTCG	5,941.2	29,819.6	8,872.5	28,696.5	432.5
	(1,718.4)	(6,714.2)	(3,494.3)	(4,124.7)	(858.0)
	[17.6, 63.8]	[32.8, 84.6]	[9.4, 73.4]	[48.3, 86.2]	[−22.6, 38.2]
			Panel B: 9% Discount Rate		
Wages	−2,771.1	−12,663.0	−23,104.4	−22,594.5	−2,564.9
	(4,834.4)	(17,525.8)	(10,858.2)	(17,147.5)	(4,916.3)
	[−2.3, 1.3]	[−4.7, 2.2]	[−10.4, −0.4]	[−7.0, 1.4]	[−2.7, 1.6]
LTCG	5,874.8	29,156.3	8,917.4	27,680.7	467.3
	(1,578.3)	(6,186.6)	(3,228.9)	(3,757.7)	(795.4)
	[20.6, 66.5]	[36.3, 87.9]	[13.1, 76.9]	[51.4, 88.7]	[−21.4, 39.7]

Notes: This table reports the net present value of cumulative post-reform difference in difference estimates of β from equation (1) for each year from the year of the acquisition through 9 years after the acquisition, using a discount rate of 5% in Panel A, 7% in Panel B, and 9% in Panel C. The estimation sample in column 1 includes our entire worker panel data set. Columns 2, 3, and 4 restrict to top wage quintile workers, 55-65 year old workers at the time of the acquisition, and managers. Column 5 restricts to all workers that are not in the top wage quintile, are less than 55 years old at the time of the acquisition, and are not managers. All samples exclude owners and restrict to workers associated with add-on acquisitions. Standard errors are clustered at the firm level and reported in parentheses. We report 95% confidence intervals in percentage terms in brackets, scaling the coefficient estimate by the net present value of the sum of the outcome variable for the control group from the year of the acquisition through 9 years after the acquisition.

Table A.7: Net Present Value Impacts of Non-Add-on PE Acquisitions on Workers Excluding Owners

	(1) Full Sample	(2) WQ5	(3) 55-65	(4) Manager	(5) Rank & File
			Panel A: 5% Discount Rate		
Wages	74.7	−21,534.9	−31,271.4	−17,693.4	7,604.5
	(8,112.2)	(22,137.0)	(13,727.6)	(16,589.6)	(9,880.0)
	[−2.5, 2.5]	[−5.4, 1.8]	[−12.4, −0.9]	[−5.1, 1.5]	[−2.2, 5.1]
LTCG	5,103.0	26,233.6	11,990.5	21,013.6	190.6
	(2,067.3)	(5,793.3)	(2,953.7)	(5,798.4)	(1,424.8)
	[6.3, 55.1]	[27.2, 68.8]	[30.0, 86.0]	[19.9, 66.8]	[−34.9, 40.0]
			Panel B: 7% Discount Rate		
Wages	523.3	−18,083.9	−28,002.8	−14,877.9	6,975.7
	(7,368.8)	(20,278.7)	(12,412.6)	(15,204.4)	(8,911.0)
	[−2.3, 2.5]	[−5.2, 1.9]	[−11.9, −0.8]	[−4.9, 1.6]	[−2.1, 5.0]
LTCG	4,838.8	24,848.8	11,387.4	19,833.8	129.2
	(1,873.2)	(5,296.8)	(2,688.7)	(5,354.3)	(1,277.6)
	[7.7, 55.9]	[28.8, 70.2]	[32.2, 87.6]	[21.0, 68.1]	[−35.0, 38.8]
			Panel B: 9% Discount Rate		
Wages	920.3	−15,057.8	−25,141.4	−12,418.1	6,441.5
	(6,722.2)	(18,646.9)	(11,280.1)	(13,989.5)	(8,073.3)
	[−2.2, 2.5]	[−4.9, 2.1]	[−11.3, −0.7]	[−4.7, 1.8]	[−2.1, 4.9]
LTCG	4,610.1	23,637.7	10,858.6	18,800.1	80.5
	(1,706.4)	(4,871.4)	(2,461.6)	(4,971.0)	(1,151.1)
	[9.0, 56.8]	[30.5, 71.8]	[34.4, 89.3]	[22.1, 69.5]	[−35.0, 37.6]

Notes: This table reports the net present value of cumulative post-reform difference in difference estimates of β from equation (1) for each year from the year of the acquisition through 9 years after the acquisition, using a discount rate of 5% in Panel A, 7% in Panel B, and 9% in Panel C. The estimation sample in column 1 includes our entire worker panel data set. Columns 2, 3, and 4 restrict to top wage quintile workers, 55-65 year old workers at the time of the acquisition, and managers. Column 5 restricts to all workers that are not in the top wage quintile, are less than 55 years old at the time of the acquisition, and are not managers. All samples exclude owners and restrict to workers not associated with add-on acquisitions. Standard errors are clustered at the firm level and reported in parentheses. We report 95% confidence intervals in percentage terms in brackets, scaling the coefficient estimate by the net present value of the sum of the outcome variable for the control group from the year of the acquisition through 9 years after the acquisition.

Table A.8: Impacts of PE Acquisitions on Owners With Large Stakes

	(1) Wages	(2) LTCG	(3) Sched C Inc	(4) Biz Inc
Panel A: > 5% Ownership Stakes				
β_0	−9,574.3	3,320,207.8	−51.7	−362,997.0
	(2,955.1)	(53,239.8)	(276.2)	(22,235.1)
$\beta_{1–4}$	−46,281.5	115,855.8	−1,176.9	−722,087.0
	(3,823.2)	(19,268.7)	(326.5)	(23,046.3)
$\beta_{5–9}$	−42,919.7	8,852.2	−520.3	−606,732.4
	(5,114.4)	(21,051.5)	(414.8)	(27,439.7)
Obs	485,867	485,867	485,867	485,867
Clusters	15,602	15,602	15,602	15,602
R^2	0.66	0.38	0.46	0.53
Pre-Deal Mean	198,336.2	198,850.8	4,774.1	855,019.8
Panel B: > 10% Ownership Stakes				
β_0	−15,396.5	3,739,142.5	−70.1	−399,044.7
	(3,253.1)	(60,186.8)	(311.4)	(24,301.7)
$\beta_{1–4}$	−52,571.9	125,370.8	−1,282.9	−801,023.3
	(4,193.2)	(21,485.8)	(354.5)	(25,154.9)
$\beta_{5–9}$	−48,345.4	−9,033.5	−562.5	−682,874.8
	(5,571.0)	(24,041.2)	(445.6)	(30,432.1)
Obs	402,446	402,446	402,446	402,446
Clusters	15,318	15,318	15,318	15,318
R^2	0.66	0.39	0.44	0.54
Pre-Deal Mean	206,809.7	203,161.3	4,331.3	944,580.2

Notes: This table reports difference in difference estimates of β from equation (**??**), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample includes our entire owner panel data set, requiring owners have 5% ownership stakes in Panel A and 10% ownership stakes in Panel B. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for owners of acquired firms in the year before the acquisition.

Table A.9: Extensive Margin Impacts of PE Acquisitions on Owners With Large Stakes

	(1) Employment	(2) LTCG	(3) Sched C Inc	(4) Biz Inc	(5) No Income
Panel A: > 5% Ownership Stakes					
β_0	0.0382	0.1955	0.0233	−0.0104	0.0221
	(0.0035)	(0.0054)	(0.0030)	(0.0031)	(0.0035)
$\beta_{1–4}$	−0.1446	0.0933	0.0226	−0.2012	0.1864
	(0.0055)	(0.0051)	(0.0036)	(0.0052)	(0.0046)
$\beta_{5–9}$	−0.1911	0.0623	0.0199	−0.1892	0.1929
	(0.0074)	(0.0061)	(0.0050)	(0.0070)	(0.0060)
Obs	485,867	485,867	485,867	485,867	485,867
Clusters	15,602	15,602	15,602	15,602	15,602
R^2	0.66	0.60	0.57	0.42	0.47
Pre-Deal Mean	0.7306	0.6165	0.1820	0.9998	0.0447
Panel A: > 10% Ownership Stakes					
β_0	0.0386	0.2032	0.0267	−0.0108	0.0227
	(0.0037)	(0.0058)	(0.0033)	(0.0030)	(0.0034)
$\beta_{1–4}$	−0.1660	0.0989	0.0264	−0.2044	0.1969
	(0.0058)	(0.0055)	(0.0040)	(0.0051)	(0.0046)
$\beta_{5–9}$	−0.2151	0.0708	0.0269	−0.1942	0.2031
	(0.0077)	(0.0065)	(0.0055)	(0.0071)	(0.0062)
Obs	402,446	402,446	402,446	402,446	402,446
Clusters	15,318	15,318	15,318	15,318	15,318
R^2	0.65	0.59	0.56	0.41	0.47
Pre-Deal Mean	0.7565	0.6260	0.1788	0.9999	0.0381

Notes: This table reports extensive margin difference in difference estimates of β from equation (**??**), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. All outcomes are dummy variables indicating whether each worker received a W2, realized any long-term capital gains, received any schedule C income, received any business income, or received any positive income of these four types. The estimation sample includes our entire owner panel data set, requiring owners have 5% ownership stakes in Panel A and 10% ownership stakes in Panel B. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for owners of acquired firms in the year before the acquisition.

Table A.10: Impacts of PE Acquisitions on Workers With and Without Low Stake Owners

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		With Owners				Without Owners			
Outcome		Full	WQ5	55-65	Manager	Full	WQ5	55-65	Manager
Wages	β_0	5,136.9	15,083.5	4,635.0	11,294.4	5,425.3	17,184.1	5,460.6	13,614.3
		(615.1)	(1,557.9)	(631.0)	(1,236.3)	(625.0)	(1,661.0)	(663.4)	(1,339.8)
	$\beta_{1–4}$	−2,316.7	−10,333.6	−7,668.4	−10,954.4	−1,316.4	−5,699.5	−5,102.8	−5,237.2
		(654.6)	(2,077.0)	(847.8)	(1,991.2)	(650.4)	(2,116.7)	(917.3)	(1,812.4)
	$\beta_{5–9}$	−1,542.1	−8,740.4	−6,675.2	−9,580.9	−648.7	−4,543.3	−4,445.6	−4,938.4
		(906.8)	(2,280.3)	(1,710.3)	(2,421.5)	(904.9)	(2,262.1)	(1,865.4)	(2,035.3)
Employment	β_0	0.0024	0.0007	0.0033	0.0011	0.0025	0.0011	0.0035	0.0016
		(0.0013)	(0.0010)	(0.0033)	(0.0014)	(0.0013)	(0.0011)	(0.0034)	(0.0015)
	$\beta_{1–4}$	−0.0061	−0.0245	−0.0289	−0.0267	−0.0028	−0.0112	−0.0214	−0.0093
		(0.0025)	(0.0026)	(0.0055)	(0.0045)	(0.0025)	(0.0024)	(0.0057)	(0.0040)
	$\beta_{5–9}$	−0.0008	−0.0226	−0.0291	−0.0208	0.0027	−0.0078	−0.0204	−0.0032
		(0.0041)	(0.0046)	(0.0081)	(0.0064)	(0.0041)	(0.0044)	(0.0081)	(0.0054)
LTCG	β_0	8,250.4	35,408.9	16,404.5	31,948.1	3,341.7	14,136.6	6,018.7	10,687.1
		(444.6)	(1,785.3)	(913.9)	(2,098.5)	(255.4)	(971.9)	(480.7)	(909.3)
	$\beta_{1–4}$	991.3	5,215.5	2,461.2	5,580.0	316.2	2,182.1	854.1	1,972.7
		(183.0)	(669.1)	(349.9)	(638.9)	(150.6)	(490.0)	(244.5)	(433.8)
	$\beta_{5–9}$	581.5	3,081.9	1,134.2	3,754.7	318.3	1,872.8	429.2	2,176.4
		(262.4)	(752.5)	(436.3)	(677.1)	(263.7)	(775.3)	(410.3)	(607.1)
Obs		27,841,160	5,685,773	4,451,920	1,912,256	27,418,096	5,342,871	4,324,999	1,801,925
Clusters		20,075	20,075	18,692	16,501	20,070	19,758	18,446	15,842
Pre-Deal Wage Mean		83,487.4	170,092.9	91,668.1	131,821.5	81,165.2	163,692.4	86,833.9	124,123.9
Pre-Deal Employment Mean		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Pre-Deal LTCG Mean		934.2	3,743.6	1,545.2	3,619.0	457.8	1,875.0	678.3	1,618.8

Notes: This table reports difference in difference estimates of β from equation (**??**), replacing post-match year indicators with indicators for an observation being in the acquisition year, the first 4 years after the acquisition, and years 5–9 after the acquisition. The estimation sample in the first 4 columns includes all workers in our workers panel, while the estimation sample in columns 5-8 excludes all owners from the workers panel, defining owners as anyone with a nonzero ownership stake in an S-corporation or partnership, and anyone receiving $> 0.1\%$ of a dividend distribution or ownership stake on an 1120 Schedule G for C-corporations. Standard errors are clustered at the firm level and reported in parentheses. The pre-reform mean is the average value of the outcome variable in each column for workers at acquired firms in the year before the acquisition.

Table A.11: Net Present Value Impacts of PE Acquisitions on Owners

	(1) Full Sample	(2) 55-65	(3) 65+	(4) <55
		Panel A: 5% Discount Rate		
Wages	−295,755.4	−484,125.3	−295,575.2	−238,129.4
	(28,773.4)	(50,023.8)	(49,738.1)	(39,406.3)
	[−26.2, −17.8]	[−39.8, −26.4]	[−39.6, −20.0]	[−19.6, −10.0]
LTCG	2,991,032.0	3,474,153.5	2,384,739.2	3,427,138.5
	(132,946.8)	(230,379.1)	(298,954.7)	(162,153.6)
	[152.2, 181.2]	[136.4, 177.2]	[70.9, 117.1]	[193.6, 233.1]
Biz Inc	−4,021,617.5	−3,863,742.0	−3,532,390.5	−4,383,654.5
	(153,428.3)	(229,139.7)	(321,252.2)	(171,127.9)
	[−107.6, −92.6]	[−111.4, −88.2]	[−104.8, −73.1]	[−122.5, −105.1]
		Panel B: 7% Discount Rate		
Wages	−271,410.9	−445,790.1	−277,438.1	−215,557.4
	(26,219.6)	(45,728.7)	(45,327.0)	(35,873.2)
	[−25.8, −17.6]	[−39.1, −26.0]	[−39.3, −20.2]	[−19.1, −9.7]
LTCG	2,973,159.8	3,462,700.2	2,398,467.8	3,393,043.5
	(124,173.0)	(214,664.2)	(277,867.0)	(151,664.9)
	[164.4, 193.7]	[148.7, 189.8]	[78.5, 124.7]	[208.9, 249.0]
Biz Inc	−3,729,488.0	−3,585,009.0	−3,290,072.8	−4,053,754.8
	(141,024.6)	(210,119.1)	(295,492.3)	(157,259.4)
	[−106.9, −92.1]	[−110.6, −87.8]	[−104.1, −72.9]	[−121.8, −104.6]
		Panel B: 9% Discount Rate		
Wages	−250,004.2	−412,048.1	−261,189.0	−195,825.8
	(24,005.0)	(42,001.7)	(41,502.8)	(32,810.3)
	[−25.4, −17.3]	[−38.5, −25.7]	[−38.9, −20.4]	[−18.7, −9.4]
LTCG	2,956,778.2	3,451,305.8	2,410,271.8	3,362,417.2
	(116,597.9)	(201,068.5)	(259,608.9)	(142,645.0)
	[176.8, 206.5]	[161.1, 202.6]	[86.2, 132.4]	[224.5, 265.2]
Biz Inc	−3,471,953.2	−3,339,071.0	−3,076,072.2	−3,763,516.0
	(130,229.0)	(193,586.6)	(273,041.0)	(145,190.6)
	[−106.2, −91.7]	[−109.8, −87.4]	[−103.4, −72.8]	[−121.0, −104.0]

Notes: This table reports the net present value of cumulative post-reform difference in difference estimates of β from equation (1) for each year from the year of the acquisition through 9 years after the acquisition, using a discount rate of 5% in Panel A, 7% in Panel B, and 9% in Panel C. The estimation sample in column 1 includes our entire owner panel data set. The other columns restrict to owners in the given age ranges at the time of the acquisition. Standard errors are clustered at the firm level and reported in parentheses. We report 95% confidence intervals in percentage terms in