

The Gender Wage Gap: Extent, Trends, and Explanations[†]

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Using Panel Study of Income Dynamics (PSID) microdata over the 1980–2010 period, we provide new empirical evidence on the extent of and trends in the gender wage gap, which declined considerably during this time. By 2010, conventional human capital variables taken together explained little of the gender wage gap, while gender differences in occupation and industry continued to be important. Moreover, the gender pay gap declined much more slowly at the top of the wage distribution than at the middle or bottom and by 2010 was noticeably higher at the top. We then survey the literature to identify what has been learned about the explanations for the gap. We conclude that many of the traditional explanations continue to have salience. Although human-capital factors are now relatively unimportant in the aggregate, women's work force interruptions and shorter hours remain significant in high-skilled occupations, possibly due to compensating differentials. Gender differences in occupations and industries, as well as differences in gender roles and the gender division of labor remain important, and research based on experimental evidence strongly suggests that discrimination cannot be discounted. Psychological attributes or noncognitive skills comprise one of the newer explanations for gender differences in outcomes. Our effort to assess the quantitative evidence on the importance of these factors suggests that they account for a small to moderate portion of the gender pay gap, considerably smaller than, say, occupation and industry effects, though they appear to modestly contribute to these differences. (JEL I26, J16, J24, J31, J71)

1. Introduction

The gender wage gap has now been intensively investigated for a number of decades, but also remains an area of active and innovative research. In this article, we

provide new empirical estimates delineating the extent of and trends in the gender wage gap and their potential explanations. We then survey the literature to identify what has been learned about the explanations of the gap, both those that can be readily

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included in conventional analyses and those that cannot; both traditional explanations and newer ones that have been offered. Our primary focus will be on the United States, although we also place the United States in a comparative perspective, particularly as such comparisons help to further our understanding of the sources of the gender wage gap. The focus on the United States is, in part, designed to make our task more manageable, as there has been an explosion of research on this topic across many countries. Nonetheless, we believe much of what we have learned for the United States is applicable to other countries, particularly other economically advanced nations. In our comprehensive review of the literature, we particularly emphasize areas where there has been exciting new research on more traditional explanations and newer explanations and trends, including research on gender differences in psychological attributes/noncognitive skills and mathematics test scores, and on the reversal of the gender education gap.

The long-term trend has been a substantial reduction in the gender wage gap, both in the United States and in other economically advanced nations (Blau and Kahn 2008). However, the shorter-term picture in the United States has been somewhat mixed. The period of strongest wage convergence between men and women was the 1980s, and progress has been slower and more uneven since then. Moreover, a number of other related trends appear to have plateaued or slowed since the 1990s, including increases in female labor-force participation rates and reductions in occupational segregation by sex.

The plan of the paper is as follows. In section 2, we begin by documenting the changes in the gender gap that have occurred in the United States since the 1950s, based on published data. We then provide new analyses for the 1980 to 2010

period that include decompositions of the changes in the gender wage gap into portions associated with key characteristics such as schooling, experience, industry, occupation, and union status. We also examine how women fared relative to men at various points in the wage distribution. Our decompositions show the importance of these measured factors in accounting for the levels and changes in the gender pay gap. We also find that an unexplained gap remains and, moreover, that it has been stable subsequent to a dramatic narrowing over the 1980s.

In the remaining sections, we probe what is known about the various factors that contribute to the gender pay gap, including the extent of and trends in these factors. Some of the variables we consider are measured in our data set and included in our analysis in section 2, as well as other similar type analyses. Other factors are not included and presumably help to provide insight into the sources of the unexplained gap. However, it is important to point out that the effects of factors that are not explicitly included in traditional regression analyses may be taken into account, to some extent, by measured variables. For example, women have been found to be more risk averse than men on average, which could lower their relative wages. However, to the extent that this factor operates through gender differences in occupational sorting, e.g., if it results in women avoiding occupations with greater variance in earnings, regression analyses that control for occupation will adjust for this factor.

Our consideration of explanatory factors begins in section 3, where we discuss variables economists have traditionally emphasized in studying the gender pay gap. These include human capital (schooling and work experience), the family division of labor, compensating wage differentials, discrimination, and issues relating to selection into the labor

force.¹ Gender differences in occupations, industries, and firms are a component of this discussion. We especially emphasize new empirical and theoretical research on these traditional factors.

We then turn in section 4 to a discussion of a relatively new field of research among economists studying gender: the impact of norms, psychological attributes, and noncognitive skills on the gender pay gap. This body of work includes both survey evidence and lab and field experiments. It has the potential to help explain not only what economists have called the unexplained gender wage gap (i.e., the portion not accounted for by gender differences in measured qualifications) but also gender differences in some of the measured factors themselves. However, a theme that emerges from some of the experimental work is that some psychological attitudes may themselves be influenced by context. For example, anticipated treatment of women in the labor market may affect their aspirations. The formation of norms and attitudes thus, in our view, is a potentially fruitful area of research that has received relatively little attention by economists.

We then turn in section 5 to a discussion of the impact of policy on the gender wage gap, including both antidiscrimination policy and family leave policies. While the discussion up to this point emphasizes gender-specific factors (i.e., gender differences in behavior, qualifications, and treatment), in section 6, we highlight that the overall structure of wages can affect the gender wage gap, given that men and women have different skills and qualifications and work in different occupations and industries. Hence, changes over time or differences across countries in

the return to various skills or to working in high-paying sectors (occupations or industries) will affect the gender pay gap. As another example, policies such as minimum wages or union-negotiated wage floors that bring up the bottom of the distribution will disproportionately affect women even if the law or union agreement is not gender specific. In section 6, we discuss wage structure and refer to evidence both in the United States and from other countries in which the wage structure is much more compressed as a result of union wage setting. Finally, section 7 presents conclusions.

2. *Overview of the US Gender Wage Gap*

In this section, we use published data, information from the Michigan Panel Study of Income Dynamics (PSID), and the annual March Current Population Survey (CPS) to establish the facts on the levels and trends in the US gender wage gap and their sources (in a descriptive sense). Accounting for the sources of the level and changes in the gender pay gap will provide guidance for understanding recent research studying gender and the labor market.

Figure 1 shows the long-run trends in the gender pay gap over the 1955–2014 period based on two published series: usual weekly earnings of full-time workers and annual earnings of full-time, year-round workers. After many years with a stable female/male earnings ratio of roughly 60 percent, women's relative wages began to rise sharply in the 1980s, with a continued, but slower and more uneven rate of increase thereafter. By 2014, women full-time workers earned about 79 percent of what men did on an annual basis and about 83 percent on a weekly basis.

To better understand the sources of the gender wage gap, we analyze data from the PSID, which is the only data source that has information on actual labor-market experience (a crucial variable in gender analyses)

¹Selection issues arise because we do not observe wage offers for people who are not currently employed and a smaller share of the female than of the male population is employed. Moreover, the share of both groups—but particularly of women—who are employed has changed over time.

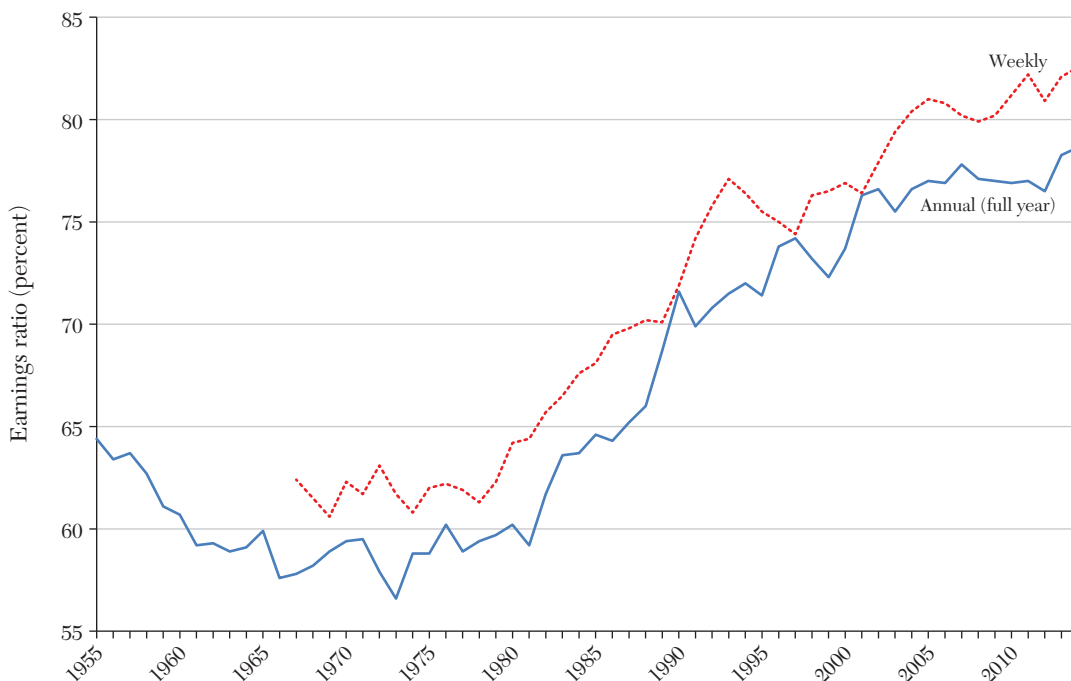


Figure 1. Female-to-Male Earnings Ratios of Full-Time Workers 1955–2014

Notes: Workers aged sixteen and over from 1979 onward, and fourteen and over prior to 1979.

Source: Fig. 7-2 “Evidence on Gender-Differences in Labor Market Outcomes,” Francine D. Blau and Anne E. Winkler, *The Economics of Women, Men, and Work*, eighth edition. (New York: Oxford University Press 2018), p.173. By permission of Oxford University Press, USA.

for the full age range of the population. We focus on men and women ages 25–64 who were full-time, non-farm, wage and salary workers and who worked at least 26 weeks during the preceding year. The focus on full-time workers and those with substantial labor-force attachment over the year is designed to identify female and male workers with fairly similar levels of labor-market commitment. However, we have repeated our analyses on the full sample of all wage and salary earners (including those employed part time or part year) and obtained very similar results to those shown here. The sample is also restricted to family heads and spouses/cohabitators because the PSID only

supplies the crucial work history information for these individuals. Due to this and other limitations in coverage by the PSID, described in the data appendix, we present some additional data on the gender pay gap using the fully nationally representative March CPS.² The empirical results in this section are of interest in and of themselves

²Additional information on the details of our data preparation and analysis is available in the online dData appendix. Means and other data presented here are for the sample used in our regression analyses. In the PSID, we exclude cases with missing data on the dependent or explanatory variables, or variables needed to construct them. In the CPS, we exclude cases with allocated earnings. See table 1 for sample sizes.

TABLE 1
UNADJUSTED FEMALE/MALE LOG HOURLY WAGE RATIOS, FULL-TIME WORKERS

Year	Sample size		Mean	Tenth percentile	Fiftieth percentile	Ninetieth percentile
	Men	Women				
<i>Panel A. Panel Study of Income Dynamics (PSID)</i>						
1980	2,282	1,491	62.1%	64.8	60.1	62.4
1989	2,617	2,068	74.0%	76.3	72.4	74.6
1998	2,391	2,146	77.2%	80.3	79.8	73.8
2010	2,368	2,456	79.3%	81.5	82.4	73.9
<i>Panel B. March current populations survey (CPS)</i>						
1980	21,428	13,484	63.5%	68.7	61.9	64.3
1989	21,343	16,487	72.4%	78.1	72.2	71.4
1998	17,520	14,231	77.1%	81.3	76.2	76.1
2010	24,229	20,718	82.3%	87.6	82.2	76.6

Notes: Sample includes nonfarm wage and salary workers ages 25–64 with at least twenty-six weeks of employment. Entries are $\exp(D)$, where D is the female mean log wage, tenth, fiftieth, or ninetieth percentile log wage minus the corresponding male log wage.

and also serve to set the stage for the literature review to follow by providing a frame of reference for how each of the measured factors discussed relates to the overall gender wage gap and changes in the gap. Our data cover the 1980–2010 period, in which, as figure 1 shows, women have made major gains in relative wages.

Table 1 shows the evolution of the female/male ratio of average hourly earnings at the mean and also the tenth, fiftieth, and ninetieth percentiles for four years—1980, 1989, 1998, and 2010—based on both PSID and CPS data.³ Because earnings refer to the previous year, we use, for example, the 1981 data to measure wages in 1980. The overall pattern is very similar across the two data sets, and also largely matches that in the published data shown in figure 1, increasing

one's confidence in the PSID.⁴ Specifically, gains in the female/male wage ratio were largest in the 1980s and occurred at a slower pace thereafter, with the ratio rising from 62 to 64 percent in 1980 to 72 to 74 percent in 1989, with a further increase to 79 to 82 percent by 2010.⁵

The time pattern at the bottom (tenth percentile), middle (fiftieth percentile), and top (ninetieth percentile) of the wage distribution is similar to that for the overall mean: the gender wage ratio rose over the period, with the largest gains during the 1980s. However,

⁴The unemployment rate was 7.1 percent in 1980, 5.3 percent in 1989, 4.5 percent in 1998, and 9.6 percent in 2010 (see http://data.bls.gov/timeseries/LNU04000000?years_option=all_years&periods_option=specific_periods&periods=Annual+Data, accessed December 27, 2015). The high level of unemployment in 2010 may raise concerns about the representativeness of that year for studying the gender pay gap. Reassuringly, however, we found similar results when we ended our PSID sample in 2006, before the great recession began.

⁵The larger female gains in relative wages during 1980s is a result we have studied in some detail in prior work (Blau and Kahn 2006), where we explicitly compared the 1980s and the 1990s.

³Entries are calculated as $\exp(D)$, where D is the female log wage at the mean, or at the indicated percentile, minus the corresponding male log wage.

TABLE 2
SCHOOLING AND ACTUAL FULL-TIME WORK EXPERIENCE BY GENDER, PSID

Year	Men	Women	Difference: Men–Women
<i>Years of schooling</i>			
1981	13.3	13.2	0.2
1990	13.8	13.7	0.0
1999	14.2	14.3	–0.1
2011	14.3	14.5	–0.2
<i>Bachelor's degree only</i>			
1981	18.1%	15.3%	2.7%
1990	20.0%	17.6%	2.3%
1999	23.4%	22.2%	1.2%
2011	26.2%	24.7%	1.5%
<i>Advanced degree</i>			
1981	10.0%	7.4%	2.5%
1990	10.3%	8.7%	1.6%
1999	11.7%	10.8%	0.9%
2011	12.9%	15.7%	–2.8%
<i>Years of full time experience</i>			
1981	20.3	13.5	6.8
1990	19.2	14.7	4.5
1999	19.8	15.9	3.8
2011	17.8	16.4	1.4

Note: Sample includes full time nonfarm wage and salary workers ages 25–64 with at least twenty-six weeks of employment.

a closer examination shows that women gained least, in a relative sense, at the top. In both the PSID and CPS, women at the top had a slightly higher pay ratio than those in the middle and a slightly lower pay ratio than those at the bottom in 1980. Yet by 2010, in both datasets, women's relative pay at the top was considerably less than that at the middle and bottom of the distribution: 8–9 percentage points less than that at the middle or bottom in the PSID, and 6–11 percentage points less in the CPS. Later in this section, we will consider the role of measured factors in accounting for the slower reduction at the top and in following sections we will attempt to shed additional light by reviewing the literature on the labor market for highly skilled workers.

At the same time that the gender pay gap has been narrowing, women have been increasing their relative labor market qualifications and commitment to work. Tables 2 and 3 show the extent of such changes among our PSID sample of full-time workers. Table 2 focuses on the prime human-capital determinants of men's and women's wages, education, and actual full-time experience. In the case of education, there was a dramatic reversal of the gender gap. In 1981, women had lower average levels of schooling than men and were less likely to have exactly a bachelor's or an advanced degree. Over the period, women narrowed the education gap with men and, by 2011, women had higher average levels of schooling and were more likely to have an advanced degree

than men.⁶ While men had a slightly higher incidence of having exactly a bachelor's degree, women were more likely to have at least a bachelor's degree (i.e., the sum of the bachelor's degree only and advanced degree categories).⁷

In the case of labor-market experience, the story is one of a substantial narrowing of the gender experience gap. In 1981, men had nearly seven more years of full-time labor-market experience on average than women. By 2011, the gap had fallen markedly to only 1.4 years, with the fastest rate of increase in women's relative experience occurring during the 1980s.⁸ Thus, on these two basic measures of human capital—schooling and actual labor market experience—women made important gains during the 1981–2011 period, reversing the education gap and greatly reducing the experience gap.

Table 3 further explores trends in the determinants of wages by showing gender differences in the incidence of high-level jobs, as well as collective-bargaining coverage. Rising employment in managerial or professional jobs may be an indicator of increasing human capital or work commitment, even controlling for levels of schooling and actual labor market experience. For example, such jobs may entail higher levels

of responsibility and pressure than other jobs, and only those with the appropriate training and commitment may be qualified to take them. Increases in women's relative representation in such jobs may then be a further indicator of their rising human capital and labor-market commitment. However, women's representation in such jobs may also be affected by employer discrimination in entry or promotions. Women's improvements may, therefore, also reflect reductions in discrimination. Both interpretations are plausible. First, it seems likely that women's increasing levels of schooling and, as discussed below, increasing representation in lucrative fields of study, as well as their rising experience levels, would be expected to lead to their greater representation in high-level positions. Second, given women's increasing qualifications and commitment to the labor market, employer incentives for statistical discrimination (this concept is discussed further below) have likely been reduced.

Under either interpretation, studying these differences can yield insights into the sources of the gender pay gap. Table 3 shows remarkable increases in women's relative representation in such high-level jobs. The male advantage in managerial jobs fell from 12 percentage points in 1981 to just two percentage points in 2011. Moreover, while women were more likely than men to work in professional jobs throughout the period, their advantage grew from five percentage points in 1981 to nine percentage points in 2011. However, many women in professional jobs remain employed in traditionally female occupations such as nursing or K–12 teaching that are generally less lucrative than traditionally male professions. We therefore also show, in table 3, gender differences in the incidence of employment in “male” professional jobs, which we define as professional jobs other than nursing or K–12 and other noncollege teaching positions, most of which were predominantly male at the start

⁶Tables 2 and 3 refer to 1981, 1990, 1999, and 2011, rather than 1980, etc., as shown in table 1, because earnings refer to the previous year, while other variables are measured as of the survey date.

⁷CPS data also show that, in 1981, men had higher levels of schooling and incidence of bachelor's or advanced degrees than women; by 2011, women in the CPS had higher levels of schooling than men, as in the PSID. However, in the 2011 CPS, women not only had a higher incidence of advanced degrees, but also a slightly higher incidence of exactly a college degree than men.

⁸Some of the small experience gap in 2011 may have resulted from the recession. For example, in 2007 (i.e., before the recession), the full-time experience gap was 2.6 years, compared to 2011's gap of 1.4 years and the 1999 gap of 3.8 years. Whether the fall to 1.4 years by 2011 was a continuation of a trend or was due to the recession is unclear, though the upshot is the same: a substantial reduction in the gender experience gap.

TABLE 3
INCIDENCE OF MANAGERIAL OR PROFESSIONAL JOBS AND COLLECTIVE-BARGAINING
COVERAGE BY GENDER, PSID

Year	Men	Women	Difference: Men–Women
<i>Managerial jobs</i>			
1981	21.5%	9.2%	12.3%
1990	21.1%	10.9%	10.2%
1999	21.8%	15.3%	6.5%
2011	18.3%	16.2%	2.2%
<i>Professional jobs</i>			
1981	17.0%	21.8%	–4.8%
1990	19.4%	26.1%	–6.6%
1999	20.4%	26.9%	–6.4%
2011	21.7%	31.1%	–9.4%
<i>“Male” professional jobs</i>			
1981	14.6%	10.1%	4.5%
1990	17.3%	14.1%	3.2%
1999	17.6%	13.2%	4.4%
2011	18.6%	17.8%	0.8%
<i>Collective-bargaining coverage</i>			
1981	34.5%	21.1%	13.3%
1990	25.4%	19.4%	6.1%
1999	21.5%	18.2%	3.3%
2011	17.4%	18.9%	–1.5%

Notes: Sample includes full time nonfarm wage and salary workers ages 25–64 with at least twenty-six weeks of employment. “Male” professional jobs are professional jobs excluding nurses and K–12 and other noncollege teachers.

of our period. While men were four percentage points more likely than women to be in such jobs in 1981, by 2011, the gender gap had been virtually eliminated. At the same time women were making these occupational gains, they were greatly reducing their concentration in administrative support and clerical jobs.⁹

In addition to these occupational changes, one notable feature of the post-1980 labor market is the steady reduction in the portion of the economy covered by collective

bargaining. Table 3 shows that this reduction hit men much harder than women. Specifically, men’s collective-bargaining coverage fell from 34 percent in 1981 to 17 percent in 2011, while women’s coverage only declined from 21 percent to 19 percent.¹⁰ As is the case with women’s gains in

⁹We obtained very similar results on the gender gaps in managerial, professional, and “male” professional employment using the March CPS.

¹⁰While the PSID data show women as now having slightly higher collective bargaining coverage than men, US Bureau of Labor Statistics (BLS) data show men continuing to retain a small edge. Specifically, in 1983, among those 16 years and older, 27.7 percent of men were covered by collective bargaining, compared to 18.0 percent of women; by 2011, men’s coverage had decreased to 13.5 percent, while women’s declined to 12.5 percent (<http://data.bls.gov/pdq/SurveyOutputServlet>, accessed August 18, 2014).

education, full-time labor-market experience, and employment in high-level occupations, we expect the elimination of the gender gap in collective bargaining coverage to contribute to a reduction in the gender pay gap.¹¹

How have gender differences in women's labor-market qualifications and employment location affected the gender wage gap? And how have improvements in women's relative characteristics affected changes in the gender wage gap? We study these questions by decomposing levels and changes in the gender wage gap over the 1980–2010 period using log wage regressions. We proceed in two stages. First, we estimate wage models that only control for education, experience, race/ethnicity, region, and metropolitan-area residence. We term this the “human capital specification,” since other than basic controls, we include only human-capital variables—education and experience. Second, we augment this model with a series of industry, occupation, and union coverage dummy variables. We term this equation the “full specification.” Because these latter variables may have an ambiguous interpretation—i.e., they may represent human capital, other labor market skills, and commitment, on the one hand, or employer discrimination, on the other hand—we present both versions. Note that we do not control for marital status or number of children, since these are likely to be endogenous with respect to women's labor-force decisions. Our decompositions can be viewed as reduced forms with respect to family formation decisions.¹²

¹¹In the PSID, the convergence in the collective-bargaining coverage of men and women was a result of both a larger fall in men's private-sector coverage and an increase in women's public-sector coverage, with men's public-sector coverage remaining stable.

¹²An additional reason we did not control for marital status and children in our basic regressions is that such variables are expected to increase male wages but decrease female wages, complicating one's assessment of gender gaps in explanatory variables. Nonetheless, when

We measure education by controlling for years of schooling, plus dummy variables for having exactly a bachelor's degree and an advanced degree. We include measures of both full-time and part-time labor-market experience and their squares. Race and ethnicity are controlled for using four mutually exclusive categories: white non-Hispanic (the excluded category), black non-Hispanic, other non-Hispanic, and Hispanic. We control for three of the four census regions, as well as including a dummy variable for residence in a metropolitan area. In the full specification, we additionally control for a series of fourteen industry and twenty occupation dummy variables, government employment, and a collective-bargaining coverage dummy variable. (In the decompositions below, government employment is included with industry.) The construction of these categories took account of changes in the PSID's coding scheme over the period and is described in the online data appendix.

2.1 *Explaining the Gender Wage Gap at the Mean*

Figure 2 shows female to male log wage ratios (i) unadjusted for covariates (i.e., reproduced from table 1), (ii) adjusted for the covariates in the human capital specification, and (iii) adjusted for the covariates in the full specification. The adjusted female/male wage ratios shown in figure 2 and analyzed in more detail in table 4 are computed using a traditional Oaxaca–Blinder decomposition of male/female differences in log wages into a component accounted for by differences in characteristics and an unexplained component (Oaxaca 1973; Blinder 1973). The latter is often taken to be an estimate of the extent of discrimination—i.e., unequal pay for equally qualified

we included these variables in our basic wage regressions, the decomposition results were very similar to those shown here.

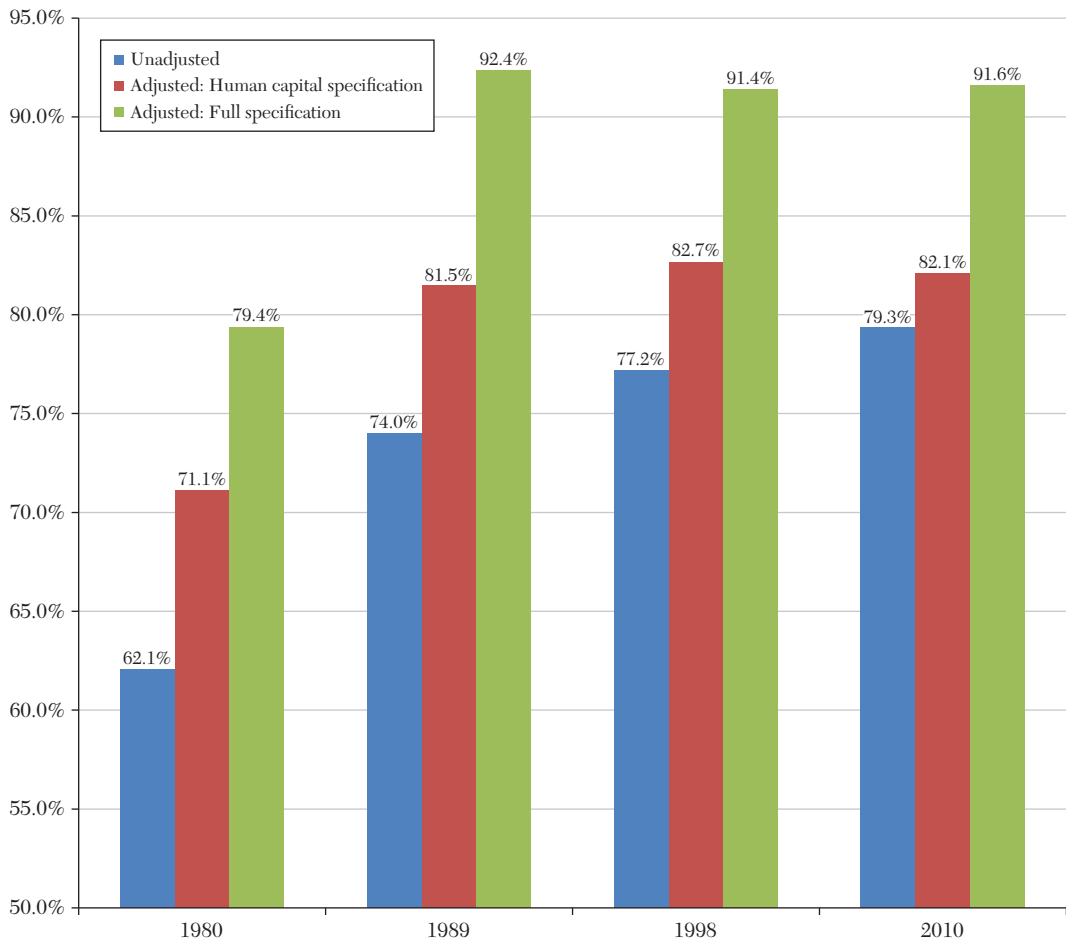


Figure 2. Female to Male log Wage Ratio, Unadjusted and Adjusted for Covariates (PSID)

Source: Authors' calculations from Panel Study of Income Dynamics (PSID) data. See text for definitions.

workers. However, the unexplained portion of the gender pay gap may include the effects of unmeasured productivity or compensating differentials, and some of the explanatory variables such as industry or occupation may be affected by discrimination. We consider this issue in greater detail in section 3.9, while our discussion of research on selection, unmeasured attri-

butes such as competitiveness or risk aversion, and possible glass ceilings will shed light on some possible sources of the pay gap that cannot be explained by measured characteristics.

The following equations illustrate the Blinder–Oaxaca decomposition. For year t , estimate separate male (m) and female (f) ordinary least squares (OLS) wage

TABLE 4
DECOMPOSITION OF GENDER WAGE GAP, 1980 AND 2010 (PSID)

Variables	1980		2010	
	Effect of gender gap in explanatory variables		Effect of gender gap in explanatory variables	
	log points	Percent of gender gap explained	log points	Percent of gender gap explained
<i>Panel A. Human-capital specification</i>				
Education variables	0.0129	2.7	-0.0185	-7.9
Experience variables	0.1141	23.9	0.0370	15.9
Region variables	0.0019	0.4	0.0003	0.1
Race variables	0.0076	1.6	0.0153	6.6
Total explained	0.1365	28.6	0.0342	14.8
Total unexplained gap	0.3405	71.4	0.1972	85.2
Total pay gap	0.4770	100.0	0.2314	100.0
<i>Panel B. Full specification</i>				
Education variables	0.0123	2.6	-0.0137	-5.9
Experience variables	0.1005	21.1	0.0325	14.1
Region variables	0.0001	0.0	0.0008	0.3
Race variables	0.0067	1.4	0.0099	4.3
Unionization	0.0298	6.2	-0.0030	-1.3
Industry variables	0.0457	9.6	0.0407	17.6
Occupation variables	0.0509	10.7	0.0762	32.9
Total explained	0.2459	51.5	0.1434	62.0
Total unexplained gap	0.2312	48.5	0.0880	38.0
Total pay gap	0.4770	100.0	0.2314	100.0

Notes: Sample includes full time nonfarm wage and salary workers ages 25–64 with at least twenty-six weeks of employment. Entries are the male–female differential in the indicated variables multiplied by the current year male log wage coefficients for the corresponding variables. The total unexplained gap is the mean female residual from the male log wage equation.

regressions for individual i (the i and t subscripts are suppressed to simplify the notation):

$$(1) \quad Y_m = X_m B_m + u_m$$

$$(2) \quad Y_f = X_f B_f + u_f$$

where Y is the log of wages, X is a vector of explanatory variables such as education and experience, B is a vector of coefficients, and u is an error term.

Let b_m and b_f be respectively the OLS estimates of B_m and B_f and denote mean values with a bar over the variable. Then, since OLS with a constant term produces residuals with a zero mean, we have:

$$(3) \quad \bar{Y}_m - \bar{Y}_f = b_m \bar{X}_m - b_f \bar{X}_f = b_m (\bar{X}_m - \bar{X}_f) + \bar{X}_f (b_m - b_f).$$

The first term on the far right-hand side of (3) is the impact of gender differences in the explanatory variables evaluated using the

male coefficients. The second term is the unexplained differential and corresponds to the average female residual from the male wage equation. In figure 2, we take the exponential of this residual and obtain the simulated female-to-male wage ratio, controlling for the indicated variables. This residual corresponds to an experiment where we compare a woman's actual wage with her predicted wage from the male equation. One might think of the predicted wage as the outcome of a discrimination case in which a firm that previously was found to have discriminated against women is now required to treat women the same as it treats men. The decomposition in (3) of course could be performed using the female coefficients and the male means, and we have performed such a decomposition as well, with similar results to the ones reported here, although the unexplained residual was somewhat larger using the male means.¹³

The results for the unadjusted ratios in figure 2 mirror the trends from the published data, showing a large increase in the female-to-male wage ratio over the 1980s, with continued but smaller gains in subsequent decades.¹⁴ Over the 1980–2010

period as a whole, the unadjusted ratio increased substantially from 62.1 to 79.3 percent. The adjusted ratios also rose considerably over this period, from 71.1 to 82.1 percent in the human-capital specification and from 79.4 to 91.6 percent in the full specification. However virtually all of these gains in the adjusted ratios occurred in the 1980s. This means that, while a reduction in the residual or unexplained gap played an important role in the narrowing of the gender wage gap over the 1980s, it has not been a factor since then (see also Blau and Kahn 2006). Figure 2 also indicates that the difference between the human capital adjusted ratio and the unadjusted ratio fell dramatically over the 1980–2010 period, reflecting women's increasing human-capital levels relative to men's. By 2010, the human-capital variables (and the other variables included in this specification) explained very little of the gender wage gap: the unadjusted ratio was 79 percent, compared to the adjusted ratio of 82 percent. As Goldin (2014) has commented, "As women have increased their productivity enhancing characteristics and as they 'look' more like men, the human capital part of the wage difference has been squeezed out." As we shall see shortly in table 4, this represents, to some extent, countervailing factors: women are now *better* educated than men but they continue to lag (slightly) in actual labor-market experience. In the full specification, the adjusted ratio (91.6 percent) remained considerably higher than in the human-capital specification (82.1 percent) in 2011,

¹³Some have argued that a wage regression pooling men and women should be used, since it is claimed that this would be the wage regression prevailing in a nondiscriminatory labor market (Cotton 1988; Neumark 1988). We have not done so here because there would likely be general-equilibrium changes if discrimination were eradicated, and we do not know what the resulting reward structure would look like. Instead, we take the more modest approach of performing the decomposition using alternative weights and comparing the results. As just mentioned, however, the experiment of taking a woman and valuing her characteristics using the male coefficients does correspond to a real-life scenario. We should also point out that in data sets such as the CPS that do not measure actual experience, the female equation will give a less accurate estimate of the return to labor market experience than the male equation.

¹⁴The US labor force aged over the 1980–2010 period, and it is well-known that gender pay gaps increase with age. To investigate whether aging has influenced our picture of the trends in the gender wage gap, we re-weighted our data with 1980 age weights using a quartic in age in a

procedure based on DiNardo, Fortin, and Lemieux (1996). Men and women in our wage samples were in fact three to four years older in 2010 than 1980. When we repeated our analyses using 1980 age weights, we found that the overall female-to-male wage ratio would have been 80.7 percent in 2010, compared to its actual value of 79.3 percent as shown in table 1 and figure 2, a slight increase, as expected. However, the adjusted ratios were very similar to those shown in figure 2.

suggesting a continued substantial role for occupation and industry in explaining the gender wage gap (recall that union differences have now been virtually eliminated).

Table 4 provides further detail on the contribution of particular labor-market characteristics to the gender wage gap. Specifically, it shows the fraction of the total gender wage gap in 1980 and 2010 accounted for by gender differences in each group of variables for both the human capital and full specifications, again based on the Oaxaca–Blinder decomposition. The entries are the male–female differences in the means of each variable multiplied by the corresponding male coefficients from the current year wage regression. In panel A, one sees the contribution of traditional human-capital variables—education and experience—not controlling for industry, occupation, or union status. This specification in effect allows human capital to affect these intervening variables and thus gives the reduced-form effect of education and experience in explaining the gender wage gap. In 1980, the male advantage in education raised the gender wage gap somewhat, while the male experience gap contributed substantially (0.114 log points) and accounted for nearly a quarter of the gap. By 2010, due to the education reversal, women’s *higher* level of education slightly *raised* their relative wage. Moreover, the much smaller (compared to 1980) male advantage in labor-market experience contributed only a small amount (0.037 log points) to the gender wage gap, accounting for 16 percent of the now much-reduced gender wage gap. Together, human-capital factors (education and experience) accounted for 27 percent of the gender wage gap in 1980 compared to only 8 percent in 2010. Another notable change was the decline in the unexplained gap—from 0.341 log points in 1980 to 0.197 log points in 2010. This also contributed substantially to the narrowing of the gender gap over the period, although, as we have seen, the decrease in

the unexplained gap occurred only during the 1980s. Nonetheless, unexplained factors accounted for a substantial share of the gender gap in both years, actually a bit larger *share* of gap in 2010 (85 percent) than in 1980 (71 percent).

Table 4, panel B, shows the decomposition of the gender pay gap using the full specification. Interestingly, the effects of education and experience are quite similar to that in panel A, implying that the impact of these measures of human capital operates primarily within industries, occupations, and union coverage status. In 1980, gender gaps in industry and occupation together accounted for 0.097 log points, or 20 percent of the gender pay gap, with gender differences in union coverage contributing an additional 0.03 log points or 6 percent of the gap. By 2010, the convergence in male and female unionization rates had virtually eliminated the contribution of this factor, but occupation and industry continued to account for a substantial gender gap of 0.117 log points or 51 percent of the smaller 2011 gender gap. Indeed, whether taken separately or combined, occupation and industry now constitute the largest measured factors accounting for the gender pay gap. In both years, the unexplained gap was considerably smaller in the full specification than in the human-capital specification, also highlighting the importance of industry and occupation. As in the case of the human-capital specification, a marked decline in the unexplained gap (from 0.231 log points in 1980 to 0.088 log points in 2010) contributed to the narrowing of the gender wage gap, and, again, this decrease occurred over the 1980s. However, as in the case of the human capital specification, unexplained factors continue account for a substantial share of the gender gap in 2010 (38 percent) as they had in 1980 (49 percent). The continued importance of occupation and industry in accounting for the gender gap, and the rise in the

TABLE 5
EFFECT OF CHANGES IN EXPLANATORY VARIABLES AND MALE WAGE COEFFICIENTS ON THE CHANGE IN THE GENDER WAGE GAP, 1980–2010

Variables	Base: 1980 male wage equation; 2010 male–female gap in explanatory variables		Base: 2010 male wage equation; 1980 male–female gap in explanatory variables	
	Human capital specification	Full specification	Human capital specification	Full specification
<i>Effect of changing means</i>				
Education variables	–0.0219	–0.0219	–0.0461	–0.0343
Experience variables	–0.0767	–0.0674	–0.0460	–0.0433
Region variables	–0.0058	–0.0030	–0.0004	0.0002
Race variables	–0.0018	–0.0017	0.0006	0.0003
Unionization	—	–0.0331	—	–0.0303
Industry variables	—	–0.0080	—	0.0032
Occupation variables	—	–0.0253	—	–0.0369
All Xs	–0.1062	–0.1603	–0.0920	–0.1411
<i>Effect of changing coefficients</i>				
Education variables	–0.0095	–0.0041	0.0148	0.0083
Experience variables	–0.0004	–0.0006	–0.0310	–0.0246
Region variables	0.0042	0.0037	–0.0011	0.0005
Race variables	0.0096	0.0049	0.0071	0.0030
Unionization	—	0.0003	—	–0.0025
Industry variables	—	0.0031	—	–0.0082
Occupation variables	—	0.0506	—	0.0622
All Bs	0.0039	0.0579	–0.0103	0.0386
Effect of changing unexplained gaps	–0.1433	–0.1432	–0.1433	–0.1432
Change in the total wage gap	–0.2456	–0.2456	–0.2456	–0.2456

Notes: Effect of changing means is the change over the 1980–2010 period in the male–female difference in the indicated variables multiplied by the indicated male log wage coefficients for the corresponding variables. Effect of changing coefficients is the change over the 1980–2010 period in the male wage coefficients for the indicated variables, multiplied by the corresponding male–female difference in the means of the indicated variables.

relative importance of these factors, suggests that future research on explanations might fruitfully focus on gender differences in employment distributions and their causes. This meshes well with increased attention to the role of firms as firm–worker matched data increasingly become available.

One puzzling finding in table 4 is that, despite the occupational improvements of

women shown in table 3, gender differences in occupation accounted for a larger pay gap in 2010 than in 1980 (0.076 versus 0.051 log points). However, while women upgraded their occupations during this period, the wage consequences of gender differences in occupations became larger as well. We study these consequences formally in table 5. There we provide estimates of the impact

of changes in the gender gaps in covariates on the change in the gender wage gap using a constant set of male wage coefficients (for 1980 or 2010). To do this, we adapt an approach developed by Juhn, Murphy, and Pierce (1991) (see also Blau and Kahn 1997), which also yields estimates of the effect of changing coefficients and the effect of changes in the unexplained gap.

We begin with male (m) wage and female (f) wage equations as in (1) and (2) above for each of the two years (0, 1). Then,

- (4) Effect of Changing Means

$$= (\Delta \bar{X}_1 - \Delta \bar{X}_0) b_{1m}$$

- (5) Effect of Changing Coefficients

$$= \Delta \bar{X}_0 (b_{1m} - b_{0m})$$

- (6) Effect of Changing Unexplained Gaps

$$= \bar{X}_{1f} (b_{1m} - b_{1f}) - \bar{X}_{0f} (b_{0m} - b_{0f}),$$

where X and b have been defined previously and a Δ prefix signifies the (mean) male–female difference for the variable immediately following. The effect of changing means measures the contribution of changes in male–female differences in measured labor market characteristics (X s) on changes in the gender wage gap. So, for example, if women move into higher-paying occupations it will reduce the gender wage gap. The effect of changing coefficients reflects the impact of changes in prices of measured labor market characteristics, as indexed by male coefficients, on changes in the gender wage gap. For example, given that women are located in different occupations than men, an increase in the return to occupations in which men are more heavily represented weights the gender difference in occupations more heavily and

hence raises the gender wage gap, all else equal. Finally, the effect of changing unexplained gaps measures the impact of this factor on changes in the gender wage gap, with, e.g., a declining unexplained gap working to decrease the gender wage gap. The impact of changing means, changing coefficients, and changes in the unexplained gap together sum to the observed change in the total wage gap.

The first two columns of table 5 use the 1980 male wage equation and 2010 male–female differences in the means of the covariates as the base, while the second two columns use the opposite values as base, in each case chosen to exhaust the total change in the gender pay gap.

In the human-capital specification (giving the largest estimate of the impact of these variables), women’s improvements in education and experience taken together are shown to narrow the gender pay gap by 0.092 to 0.098 log points, or about 38–40 percent of the actual closing of the gender pay gap. Thus, improvements in these traditional measures of human capital were a very important part of the story explaining the decrease in the gender pay gap. Results for the full specification illuminate the role of industry, occupation, and unionism. Taken together, these variables narrowed the gender gap by 0.064–0.066 log points or 26–27 percent of the closing. This reflects convergence in men’s and women’s occupations and union status in roughly equal measure, with relatively little evidence of narrowing of industry differentials. In terms of occupational convergence, women reduced their concentration in administrative support and service jobs, relative to men, and, as we have seen, increased their representation in managerial and professional jobs, including traditionally male professions. As well as occupational upgrading of women, the female relative gains reflect some adverse trends for men, including in production jobs and the increase

in their employment in service positions, as well as their considerably larger loss of union employment.

In both specifications, the decline in the unexplained gender wage gap plays a substantial role in accounting for the wage convergence of women and men, explaining 58 percent of the closing.¹⁵ (As we have noted previously, this decrease occurred almost entirely in the 1980s.) Of course, this begs the question as to what caused this decrease. There are a number of possible sources. The two most straightforward are that the decline represents a decrease in discrimination against women and/or a decrease in gender differences in unmeasured characteristics. Also potentially important are demand shifts favoring women relative to men and trends in the extent and type of selection of women and men into the labor force. In Blau and Kahn (2006), we present some evidence consistent with each of these possible explanations, suggesting that all might have played a role. These are all issues that we address below.

The decomposition presented in table 5 also permits us to identify the role of changes in overall prices (coefficients) in affecting the trends. In general, for the 1980–2010 period, price changes are not found to play a major role in the human-capital specification, but adverse price movements did negatively affect women's gains in the full specification, almost entirely due to rising returns to occupations in which women were underrepresented. However, female improvements in the explanatory variables and a narrowing of the unexplained gap more than outweighed these adverse price changes. This analysis highlights the

notion that shifts in labor-market prices can affect women's progress in narrowing the gender wage gap. The role of wage structure in affecting changes over time in relative wages of women, as well as differences across countries in the magnitude of the gender wage gap, is considered in section 6.

2.2 *Explaining the Gender Wage Gap Across the Wage Distribution*

As we saw in table 1, as of 2010, (i) there was a relatively large gender gap at the top of the distribution and (ii) the wage gap fell more slowly over the 1980–2010 period at the top than at other portions of the distribution. These two patterns suggest the notion of a “glass ceiling” in which women face barriers in entering the top levels of the labor market and which we discuss in more detail in section 3. To provide some further evidence on this phenomenon, we decompose the gender pay gap at specific percentiles of the distribution into portions due to covariates and portions due to wage coefficients. The latter component corresponds to the unexplained gap and, while as noted above, is sometimes taken to be a measure of discrimination, may be a biased estimate.

To study the unexplained gap across the distribution, we use a method developed by Chernozhukov, Fernández-Val, and Melly (2013), which decomposes unconditional intergroup gaps (in our case, male–female gaps) at a given percentile into a portion due to the distribution of characteristics and a portion due to different wage functions conditional on characteristics. This latter portion corresponds to the unexplained gap. As discussed by the authors, the method involves computing the distribution of characteristics and the conditional wage distribution by gender. For example, as above, let log wages be denoted by Y , y be a specific value of log wages, m represent males, f represent

¹⁵ Coincidentally, the female residual fell by almost identical amounts in the human capital and full specifications (0.1432–0.1433 log points). Using the female coefficients as the base yielded qualitatively similar results for the changes in characteristics; however, the effects of price changes were very small.

females, and X be a vector of characteristics affecting wages. Then,

$$(7) \quad F_{Y[m,m]}(y) = \int F_{Ym|Xm}(y|x) dF_{Xm}(x)$$

$$(8) \quad F_{Y[f,f]}(y) = \int F_{Yf|Xf}(y|x) dF_{Xf}(x)$$

$$(9) \quad F_{Y[m,f]}(y) = \int F_{Ym|Xm}(y|x) dF_{Xf}(x)$$

where $F_{Y[m,m]}$ refers to the unconditional distribution of log wages with the male wage function and the male characteristics, with a corresponding definition for $F_{Y[f,f]}$; $F_{Y[m,f]}$ is the hypothetical wage distribution that would face women if they were rewarded according to the male wage function; $F_{Ym|Xm}$ refers to the conditional distribution of male wages given their characteristics; and F_{Xm} refers to the distribution of male characteristics, with corresponding definitions for $F_{Yf|Xf}$ and F_{Xf} .

To decompose the differences between the unconditional male and female wage distributions, we note that:

$$(10) \quad F_{Y[m,m]} - F_{Y[f,f]} = \{F_{Y[m,m]} - F_{Y[m,f]}\} \\ + \{F_{Y[m,f]} - F_{Y[f,f]}\}.$$

The first term in brackets in equation (10) shows the effect of differing distributions of personal characteristics, while the second term shows the wage function effect. To implement the decomposition, Chernozhukov, Fernández-Val, and Melly (2013) suggest computing the empirical distribution of the X variables and using quantile regressions for the conditional wage distribution. We follow that procedure and estimate one hundred quantile regressions. In addition, we compute the standard errors using bootstrapping with one hundred repetitions.

In table 6, we present the decomposition results for the tenth, fiftieth, and ninetieth percentiles.¹⁶ At each percentile, women's covariates improved relative to men's over the period in both the human capital and full specifications, resulting in comparable declines of 0.09–0.10 log points in the gender wage gap across the distribution. The lesser progress of women at the top was entirely due to much larger reductions in the unexplained gap (coefficient effects) at the tenth and fiftieth percentiles than at the ninetieth percentile. In the human-capital specification, the unexplained gap fell by 0.18 to 0.20 log points at the tenth and fiftieth percentiles, but only by 0.06 log points at the ninetieth percentile; in the full specification, the corresponding reductions in the unexplained gap were 0.16 to 0.18 log points at the tenth and fiftieth percentiles but only 0.05 log points at the ninetieth percentiles. By 2010, the unexplained gap was larger at the ninetieth percentile than at the tenth or fiftieth percentile in both specifications; in contrast, in 1980, the unexplained gap was smaller at the ninetieth than at the fiftieth, although still larger than at the tenth percentile.¹⁷

These coefficient effects suggest the possibility of a glass ceiling among highly skilled women, although they could also result from unmeasured factors leading highly skilled

¹⁶The decomposition allows us to recover the unconditional distribution of wages by adding the effects of the covariates and wage coefficients, and the results closely match the actual percentiles. The Chernozhukov, Fernández-Val, and Melly (2013) approach is similar in principle to the method of unconditional quantile regressions suggested by Firpo, Fortin, and Lemieux (2009).

¹⁷While the unexplained gap in the full specification for 2010 appears very low at the tenth percentile, we are reluctant to place a strong interpretation on this in light of its relatively large standard error. Taking the coefficient effect at face value suggests a larger role for differences by occupation, industry, and unionism in accounting for gender wage gaps at the bottom than at the other percentiles (especially the ninetieth) where gender difference in wages within occupation, industry, and union status appear to play a relatively large role.

TABLE 6
DECOMPOSITION OF THE GENDER LOG WAGE GAP BY UNCONDITIONAL DISTRIBUTION PERCENTILE (PSID)

Percentile	1980		2010	
	Specification		Specification	
	Human capital	Full	Human capital	Full
<i>Panel A. Effect of covariates</i>				
Tenth percentile	0.1767 (0.0234)	0.2729 (0.0374)	0.0721 (0.0249)	0.1648 (0.0453)
Fiftieth percentile	0.1215 (0.0167)	0.2381 (0.0279)	0.0237 (0.0151)	0.1274 (0.0235)
Ninetieth percentile	0.1139 (0.0188)	0.2281 (0.0260)	0.0265 (0.0203)	0.1246 (0.0329)
<i>Panel B. Effect of wage coefficients</i>				
Tenth percentile	0.2958 (0.0429)	0.1886 (0.0487)	0.1134 (0.0359)	0.0319 (0.0511)
Fiftieth percentile	0.3876 (0.0220)	0.2598 (0.0275)	0.1836 (0.0231)	0.0835 (0.0255)
Ninetieth percentile	0.3316 (0.0269)	0.2336 (0.0285)	0.2749 (0.0341)	0.1790 (0.0357)
<i>Panel C. Sum of covariate and wage coefficient effects</i>				
Tenth percentile	0.4725 (0.0367)	0.4615 (0.0353)	0.1855 (0.0266)	0.1967 (0.0314)
Fiftieth percentile	0.5091 (0.0226)	0.4979 (0.0232)	0.2073 (0.0236)	0.2109 (0.0211)
Ninetieth percentile	0.4455 (0.0314)	0.4617 (0.0311)	0.3014 (0.0346)	0.3036 (0.0342)

Notes: Sample includes full time nonfarm wage and salary workers ages 25–64 with at least twenty-six weeks of employment. Entries are based on the decomposition of the unconditional gender log wage gap at each indicated percentile, based on methods in Chernozhukov, Fernández-Val, and Melly (2013). Standard errors are in parentheses and are computed by bootstrapping with one hundred repetitions.

men to earn particularly high relative wages. We discuss research on discrimination in section 3.8, as well as work suggesting an important role for penalties for flexibility (shorter hours and work-force interruptions) in explaining gender gaps in skilled occupations in section 3.4. However, we note here that such a result—either a relatively large unexplained gender gap at the top or more slowly falling gender pay gaps at the top than elsewhere in the distribution—is a common

finding in the recent literature on the gender gap that uses quantile regression methods to study these issues. For example, in earlier work (Blau and Kahn 2006), we used PSID data and found that the unexplained gender pay gap in 1998 at the ninetieth percentile was larger than at lower percentiles and that it had fallen less since 1979. Similarly, also using PSID data, Kassenboehmer and Sinning (2014) found that the unexplained gender gap fell by less at the ninetieth

percentile than at lower regions of the distribution over the 1993–95 to 2004–08 periods and that, in 2004–08, there was a somewhat larger unexplained gap at the ninetieth than at the fiftieth percentile. Moreover, European research also typically finds a larger unexplained gap at the top than the middle of the distribution (e.g., Arulampalam, Booth, and Bryan 2007 using microdata on eleven countries for 1995–2001 and Albrecht, Björklund, and Vroman 2003 using Swedish data for the 1990s).

2.3 Summary

Our overview of the US gender wage gap shows a substantially decreased but persistent wage gap between men and women. Decompositions indicate the importance of changes in gender differences in education and experience, as well as occupation and union status in accounting for the reduction in the gender pay gap. They also highlight the diminished role of human-capital factors in accounting for the gender wage gap over time—due both to the reversal of the education gap between men and women and the narrowing of the gender gap in experience. Gender differences in occupation and industry remain important in explaining the gender wage gap, despite occupational upgrading of women relative to men. However, the role of unions in accounting for gender differences in wages has virtually disappeared, as have gender differences in unionization. While a decrease in the unexplained gap played a role in narrowing the gender wage gap in the 1980s, an unexplained gender wage gap remains and has been roughly stable since the 1980s decline. We also found that the gender wage gap is currently larger at the top of the wage distribution and has decreased more slowly at the top than at other points in the distribution. This remains the case even after accounting for measured characteristics. We now turn to a discussion of the underlying factors affecting the observed

sources of the gender pay gap, as well as in factors that may be included in the unobserved gap in accounting exercises like this one. We also probe for insights on why the gap is larger at the top.

3. *Traditional Factors Affecting the Gender Pay Gap*

3.1 *Labor-Force Participation*

Labor-force participation is a crucial factor in understanding developments in women's wages. This is the case both because the receipt of wages is conditional on employment, and also because women's labor-force attachment is a key factor influencing the gender wage gap. US women's labor force participation rates increased dramatically in the five decades following World War II and this increase, driven by rising participation rates of married women, underlies what Goldin (2006) has termed the “quiet revolution” in gender roles that underlies women's progress in narrowing the gender wage gap and other dimensions of labor market outcomes. For that reason, we briefly summarize the trends in female labor-force participation in the United States.

The sharp increase in female participation rates is illustrated in figure 3, which shows the rate rising from 31.8 percent in 1947 to 57.2 percent in 2013. The *gender gap* in participation rates was further reduced by the steady decline in male participation rates over this period. As may be seen in figure 3, the growth in female participation rates began to slow and then plateau in the 1990s. Female participation rates have fallen in the wake of the great recession, mirroring a similar pattern among men.

There is a voluminous literature on the sources of rising female labor-force participation rates dating at least from Mincer's (1962) insightful analysis of the early post-World War II increase. Consistent

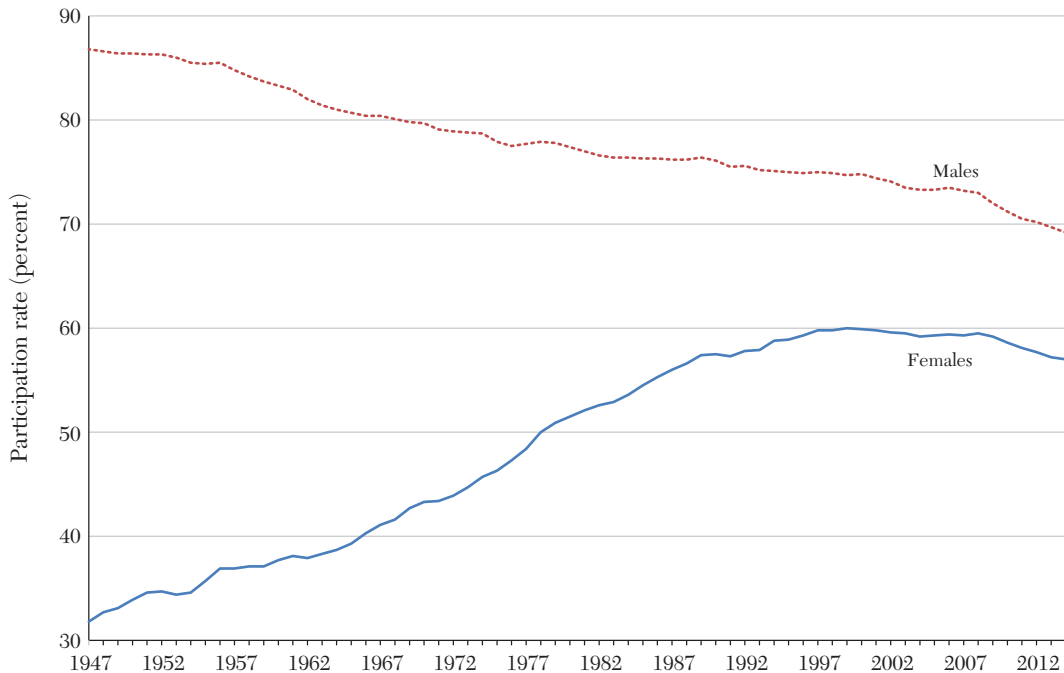


Figure 3. Trends in Female and Male Labor-Force Participation Rates, 1947–2014 (age sixteen and over)

Notes: Based on data from the Current Population Survey available at www.bls.gov and *Employment and Earnings*, various issues.

Source: Fig. 5-2 “The Labor Force: Definitions and Trends,” Francine D. Blau and Anne E. Winkler, *The Economics of Women, Men, and Work*, eighth edition. (New York: Oxford University Press 2018), p. 95. By permission of Oxford University Press, USA.

with Mincer’s original analysis, numerous studies have continued to find that rising real wages for women have played a major role in explaining the rise in married women’s labor-force participation. The substitution effect due to increases in female wages more than outweighed the negative income effect due to increases in their husbands’ incomes during periods of rising male wages.¹⁸ Moreover, during the 1970s and 1980s, husbands’ real incomes stagnated overall and declined for less-educated men. While this

factor contributed to increases in women’s labor-force participation during this period, consistent with Mincer’s initial insight, it accounted for relatively little of the increase, with rising female wages continuing to play the more important role (Juhn and Murphy 1997; Blau and Kahn 2007). Indeed, the married women with the largest increase in market hours since 1950 were those with high-wage husbands (see Juhn and Murphy 1997 and McGrattan and Rogerson 2008), likely drawn in by widening wage inequality and rising returns to skill (e.g., Autor, Katz, and Kearney 2008). Rising returns to skill likely also underlie the much larger increases in labor-force participation rates for highly

¹⁸See, e.g., Blau and Kahn (2007) and references therein. For an excellent discussion of longer term factors, see Goldin (2006).

educated women relative to their less educated counterparts (Blau 1998; Blau, Ferber, and Winkler 2014, figure 6-6).

A number of other factors apart from rising wages and increasing educational attainment have also been found to be important in explaining women's increasing labor-force participation. These include the greater availability of market substitutes for home work and improvements in household technology (e.g., Greenwood, Seshadri, and Yorukoglu 2005), the development and dissemination of the birth control pill (Goldin and Katz 2002; Bailey 2006; Bailey, Hershbein, and Miller 2012), and demand shifts that favored occupations like clerical work where women were well represented (Goldin 1990; Oppenheimer 1976).¹⁹ At the same time, however, studies focused on conventional economic variables (wages, nonlabor or husband's income, education, and demographic variables) for periods of rapid increase in female participation rates (i.e., prior to the 1990s) generally find that measured variables, including the key wage and income variables, cannot fully explain the observed increases.²⁰ This suggests an important role for shifts in preferences and other unmeasured factors. Cotter, Hermesen, and Vanneman (2011) and Fortin (2015) provide some evidence on attitudes, although establishing causation in this relationship is challenging, since people may adjust their attitudes in light of their labor-force behavior and outcomes as well as vice versa.

A final point to note is that, between 1980 and 2000, females' own wages and income elasticities declined substantially in magnitude (Blau and Kahn 2007; Heim 2007). This is of significance in that it has brought female elasticities closer to male elasticities, and,

though a gender difference remains, may be interpreted as an indicator that women are coming to more closely approximate men in terms of the role that market work plays in their lives (Goldin 2006; Blau and Kahn 2007).

3.2 *Selection and the Gender Wage Gap*

Changes over time in female participation rates raise the issue of selection bias (Heckman 1979; Gronau 1974), since data on wages are available only for a self-selected group of labor-force participants. As noted above, inclusion in the wage sample requires employment and, depending on the study, there may be additional requirements, for example, being a wage and salary worker (i.e., not self-employed), working full-time, working full-year or a minimum number of weeks in a year, etc. Selection bias is likely to be a more serious issue for women's than men's wages because the closer the wage sample is to 100 percent of the underlying population, the smaller the selection bias.²¹

In considering wage differences between men and women, the focus would ideally be on wage offers rather than observed wages; selection bias arises because the latter are influenced by individuals' decisions about whether or not to participate in the wage and salary sector. Self-selection into the wage sample may take place on either measured or unmeasured factors, and both may affect trends in observed wages. Our decompositions in section 2 and other similar work are able to standardize for shifts in measured factors; however selection on unmeasured factors can bias the estimated coefficients in wage regressions and potentially result in misleading estimates of levels and trends in adjusted gender wage gaps. If inclusion in the wage sample is selective of those with

¹⁹Female labor-force participation may also be affected by changes in cohort size that cause imbalances in marriage markets (Amuedo-Dorantes and Grossbard 2007).

²⁰See Blau and Kahn (2007) and references therein.

²¹See Mulligan and Rubinstein's (2008) discussion of the identification-at-infinity method of correcting for selection and associated references.

higher (lower) wage offers, the mean of observed wages will be higher (lower) than the mean of wage offers. And, further, there are plausible scenarios under which the magnitude and even the sign of the selection bias may change over time. For example, intuitively we would expect changes in labor-force participation rates to change the extent of selection bias and, as we have seen, not only have female participation rates increased over time, the pace of the increase has varied, with rapid rises prior to 1990, followed by slower growth and eventual plateauing thereafter. Moreover, as Mulligan and Rubinstein (2008) point out, selection patterns may change over time even in the absence of changing participation rates with, for example, changes in skill prices.²² Or, as another example, Blau and Kahn (2006) point to changes in public policies, specifically welfare and the Earned Income Tax Credit (EITC), as affecting selection in the 1990s. Thus, the direction of any potential selection bias on either wage levels or trends is unclear, *a priori*.

Does selection produce misleading estimates of levels and trends in the gender wage gap and is the effect sizable? The evidence on this is mixed. Blau and Beller (1988) examine the impact of selection bias on the trends in the gender earnings gap over the 1970s (1971–81), using a standard Heckman two-step selectivity bias correction for both the male and female wage equations. The first stage was identified by the inclusion of the individual's nonlabor income, a dummy for whether s/he was age sixty-two or over (and hence entitled to early social security benefits), and the number of family members who were aged eighteen to sixty-four. Demographic variables such as marital status

and number of children that are sometimes used to identify the selection correction were included in the wage equation, as well as the selection equation.

Blau and Beller found that, while published data on the median earnings of year-round, full-time workers showed little change in the gender pay gap during the 1970s, expanding the sample to include all workers (i.e., part-year and part-time) and using a regression approach to standardize for weeks and hours worked increased the estimate of earnings gains in an OLS context. When they corrected for selectivity bias, they found that wage offers resulted in substantially higher estimates of wage gains for white women, relative to white men, than did observed wages. Although the effect of the selectivity bias correction was to lower the estimated increase in the earnings ratio for blacks, the coefficients on the selectivity variables were not significant.

Blau and Kahn (2006) examined the gender wage gap over the 1979–1998 period, using wage data from the PSID for 1979, 1989, and 1998. They adjusted for selection in several stages. They began by progressively expanding their wage sample, first by adding part-time workers to their base sample of full-time workers; then, for those still lacking wage observations, by using the longitudinal nature of their data set to recover real wages for the most recent year available in a four-year window. For the remaining individuals, in the spirit of Neal and Johnson's (1996) and Neal's (2004) analyses of black–white wage differentials, they estimated median wage regressions and included some additional individuals by making assumptions about whether they placed above or below the median of real-wage offers. Specifically, they assumed that individuals with at least a college degree and at least eight years of actual full-time labor-market experience had above median wage offers for their gender, and that those with less than a high school degree

²² Similarly in his comparison of black and white wages for women, Neal (2004) points out that selection may operate differently even for two groups that have roughly similar participation rates.

and less than eight years of actual full-time labor-market experience had below median wage offers for their gender.

For each year, Blau and Kahn (2006) find that selection bias is positive, i.e., that the raw and human capital adjusted gender gaps in wage offers are larger than the corresponding gaps for observed wages. However, their results suggest that the direction of the selectivity effect on wage *growth* differed between the 1980s and 1990s. In the 1980s, convergence was slower after correcting for selection; however, in the 1990s, convergence was faster after the correction. They argue that the results for the 1980s are consistent with evidence that employment gains for married women were largest for wives of higher-wage men who themselves are likely to be more skilled (on both measured and unmeasured characteristics). In contrast, the pattern for the 1990s may reflect the large entry of relatively low-skilled, female single-family heads during this decade (as we have seen increases in married women's participation rates had slowed), which has been linked to changes in welfare policies and the expansion of the EITC (e.g., Meyer and Rosenbaum 2001). For the 1979–98 period as a whole, their results suggest the selectivity adjustment had a nontrivial but small impact on the trends in either the unadjusted or adjusted differential.

In contrast Mulligan and Rubinstein (2008) obtain a much more significant role for selection in accounting for the convergence in observed wages between 1975–79 and 1995–99. Using data from the Current Population Survey and focusing on workers employed full time and full year, they implement two approaches: a Heckman two-step estimator and an identification-at-infinity method. Their Heckman two-step estimator is identified by inclusion of number of children aged 0–6 interacted with marital status in the first stage. The identification-at-infinity method entails estimating some of the wage equation parameters on a sample that is

selected based on observed characteristics such that nearly all of the sample is predicted to be employed full time and full year. In most cases, they find virtually no evidence of closing of the gender wage gap once selection has been accounted for. Mulligan and Rubinstein (2008) explain their findings in terms of rising wage inequality that has increased the returns to skill. In response, women with less human capital may drop out of the workforce, while those with more human capital may enter. While it is possible to control for some indicators of human capital in their CPS data (e.g., formal education), it is also quite possible that some indicators are unmeasured, giving rise to a change in the composition of the female workforce based on unmeasured characteristics, and hence, an important role for the selectivity bias adjustment. Consistent with this story, they find that selection of women into the full-time, full-year workforce was negative in the 1970s and shifted to positive in the 1990s.

Finally, Jacobsen, Khamis, and Yuksel (2014) estimate wage equations for each year in the 1964–2013 period using March CPS data in order to construct a measure of lifetime earnings. Using a similar method and specification to that in Mulligan and Rubinstein (2008), they find increasingly positive selection into employment toward the end of their sample period, like Mulligan and Rubinstein (2008). However, in contrast to Mulligan and Rubinstein's (2008) wage results, they find that the gender gap in lifetime earnings closed in the 1980s, although it then stopped converging. These findings for lifetime earnings are broadly similar to the adjusted-wage trends reviewed in section 2.

Possible selection bias in measuring the gender wage gap is an important and complex issue. Thus, it may not be surprising that efforts to address it have not yet achieved a consensus. Some differences arise because each of the reviewed studies not only focuses

on a different data set or time period, but each uses a different approach to correcting for selection or implements it differently—including different definitions of the wage sample and different specifications of estimating equations. The PSID (used by Blau and Kahn 2006 and our data source in section 2) permits a control for actual labor-market experience, which will perforce be an unmeasured factor in a study based on the CPS (e.g., Blau and Beller 1988; Mulligan and Rubinstein 2008; and Jacobsen, Khamis, and Yuksel 2014), which does not contain this information. More fundamentally, available approaches to correcting for selection bias each have their own strengths and weaknesses. One issue raised by estimation of the Heckman two-step estimator is that an exclusion restriction (i.e., a variable that affects labor supply but does not affect wages) is needed (or at least desirable). The studies employing this approach reviewed here based identification on variables that could be argued to directly affect wages (such as nonlabor income in the case of Blau and Beller 1988 or marriage and children in the cases of Mulligan and Rubinstein 2008 and Jacobsen, Khamis, and Yuksel 2014). Moreover, while it doesn't require exclusion restrictions, the identification-at-infinity method used by Mulligan and Rubinstein (2008) raises some concern because the experience of the groups identified as having a high probability of year-round, full-time employment may not be representative of the larger male and female wage samples.²³ Finally, while the approach used by Blau and Kahn (2006) of adding observations above and below the median based on high

education, high experience or low education, low experience does not raise identification issues, it does require the assumption that the wage offers for the identified groups are above median or below median, *conditional* on their measured human-capital levels. This is an assumption that may reasonably be questioned, particularly at the high end.²⁴

Thus, we see the issue of selection bias as an area where continued research, and perhaps new methodologies, are needed to resolve the debate,²⁵ though we note that with the substantial upgrading of women's education, experience levels, and occupations that we documented in section 2, it seems highly unlikely to us that unadjusted gaps, at least, have failed to rise.

3.3 *Education and Mathematics Test Scores*

Education is an area that has seen a reversal of the gender differential, as our analysis of the PSID in section 2 showed. In the United States, traditionally, men were more likely than women to go to college and beyond. So, for example, in 1971, women received 43 percent of associate and bachelor's degrees, 40 percent of master's degrees, 14 percent of PhDs, and 6 percent of first professional degrees (awarded in postcollege professional training programs, including medicine, law, dentistry, pharmacy,

²⁴Blau and Kahn argue that this assumption is more likely to be valid for the low-education, low-experience group (placed below the median). When they repeat the analyses adding only the low-education, low-experience group, their results are virtually identical.

²⁵Blundell et al. (2007) propose a method that uses bounds, tightened by restrictions based on economic theory, to estimate changes in the distributions of wages that allow for the nonrandom selection into work. Applying this method to the United Kingdom, they find evidence of increases in the relative wages of women. Olivetti and Petrongolo (2008) explore the role of selection in employment in accounting for international differences in the gender wage gap using alternative assumptions on the position of imputed wages of the nonemployed in the spirit of Neal (2004) and Blau and Kahn (2006).

²³For example, Mulligan and Rubinstein (2008) find that when the sample is restricted to those with characteristics that predict a 0.8 or higher probability of being employed, it includes 0.8 percent (1970s), 0.5 percent (1980s), and 1.2 percent (1990s) of the white female full-time, full-year observations. This amounts to roughly 300 female observations per five year CPS cross-section.

veterinary medicine, and theology). By 1980, women had caught up to men in college graduation and subsequently they have surpassed them. As of 2011, women earned 57 percent of bachelor's degrees and 62 percent of associate degrees. There have been comparable gains at the postgraduate level—with women receiving 61 percent of master's degrees, 51 percent of PhDs, and 49 percent of first professional degrees (Blau, Ferber, and Winkler 2014, chapter 8).²⁶ The broad outlines of these trends prevail across the economically advanced nations and many developing countries as well (Goldin, Katz, and Kuziemko 2006, and Becker, Hubbard, and Murphy 2010).

In addition, the type of education women receive has changed toward more mathematics and career-oriented programs. Substantial gender differences in college majors remain, but college majors are considerably less gender segregated than they were in the 1960s (Blau, Ferber, and Winkler 2014, chapter 8). Many of these gains were achieved by the 1980s, however, with less progress since then (England and Li 2006; Bronson 2015). Significantly, women continue to lag in the STEM (science, technology, engineering, and mathematics) fields, particularly in mathematically intensive fields (Ceci et al. 2014). And gender differences in college major have been found to be an important determinant of the pay gap between college-educated men and women (Black et al. 2008).

As relatively more highly educated female cohorts have replaced earlier ones, women have now become more highly educated than men in the overall population (Blau,

Ferber, and Winkler 2014, chapter 8). The female advantage is particularly evident in the labor force (see section 2), which is still more highly selected on education for women than for men. The reasons why women have overtaken men in education are not fully understood, but seem to take in both pecuniary and nonpecuniary factors. The edge men traditionally enjoyed in college and beyond could be rationalized within a human-capital investment framework. Women's shorter expected worklife reduced their gains to investing in large amounts of formal schooling, although other factors, including familial attitudes, social gender norms, and discrimination by educational institutions could be factors as well. From the human-capital perspective, women's rising labor-force attachment is expected to raise the returns to their investment in higher education and thus to narrow the educational gender gap. Working in the same direction, reductions in occupational segregation associated with the increased entry of college women into higher-paying, formerly male managerial and professional jobs likely provided a further economic incentive for women to invest in college; of course, rising college attendance by women increased their likelihood of qualifying for high-level positions as well.²⁷ These employment gains likely reflect, at least in part, the government's antidiscrimination in employment effort spearheaded by the enforcement of Title VII of the Civil Rights Act and the implementation of Affirmative Action

²⁶These figures are based on published data from the Department of Education. In 2011, women also received 46 percent of master's degrees in business, which are not included in the tabulation of first professional degrees in the Department of Education data.

²⁷Decreases in occupational segregation were especially pronounced among the college educated (Blau, Brummund, and Liu 2013a, 2013b). It is unclear whether the college wage premium is higher for women than men. Earlier work by Dougherty (2005) and others suggested that returns measured in this way were higher for women, but Hubbard (2011) presents evidence that this is not the case when topcoding in the major dataset used in these studies, the CPS, is corrected.

for government contractors (evidence on this is discussed in section 5).

A number of additional factors likely contributed to the increase in women's educational attainment. First is the development of "the pill" and its growing availability to young, unmarried women beginning in the late 1960s and early 1970s. The availability of the pill was associated with and facilitated a delay in marriage and childbearing, which in turn enabled women to pursue professional training after college (Goldin and Katz 2002 and Bailey 2006). Second, passage and enforcement of Title IX of the Civil Rights Act, which banned discrimination in educational institutions, led to changes in admission and other practices that facilitated and encouraged women's increased participation in higher education. Third, social norms and views on gender-appropriate education investments most likely also changed. Finally, as Goldin, Katz, and Kuziemko (2006) show, girls were well-positioned to increase their college attendance in terms of their high school grade point averages and class rank, which surpassed those of boys even during the era in which boys' college going exceeded girls'. Moreover, while girls' high-school preparation and test scores in science and mathematics initially lagged those of boys', these gaps were reduced as girls' expectations of attending college increased.

While the above considerations may help to explain why women have caught up to men in education, or at least why they have *reduced* the gender education gap (since women's expected labor-force attachment is still less than men's), women's surpassing men is more puzzling—especially since, as noted earlier, this is an international phenomenon. A number of possible explanations for this have been offered, and all may play a role to some extent.

First, a college education not only increases one's own income but also results

in family-related income gains due to assortative mating. Such gains are likely to be larger for women than men, since, in the majority of couples, men are still the higher earners. Moreover, college-educated women have lower divorce rates and a lower incidence of out-of-wedlock births, making them less likely to become lower income, single-family heads. To the extent this association is causal, this factor would also increase family-related returns to college more for women than men. DiPrete and Buchmann (2006) find that such family-related income gains (adjusted for family size) increased more for women than for men, suggesting that this may be part of the reason for the increase in women's college going. Further, in the event of a divorce, Bronson (2015) argues that college provides insurance value and presents evidence that this consideration helps to explain the growth in women's college attendance.

Second, there are gender differences in noncognitive skills—for summaries and discussions, see Goldin, Katz, and Kuziemko (2006) and Becker, Hubbard, and Murphy (2010)—that suggest girls have lower *nonpecuniary* costs of investing in college than boys. For one thing, as noted earlier, girls have traditionally excelled relative to boys in secondary school academic performance and this was the case even when they were less likely than boys to go to college. This suggests that girls find school less difficult or unpleasant than boys. There is evidence, for example, that boys spend much less time doing homework than girls (Porterfield and Winkler 2007). In addition, boys have a much higher incidence of school disciplinary and behavioral problems, ranging from minor infractions to school suspensions and participation in criminal activity, and boys are also two to three times more likely to be diagnosed with attention deficit hyperactivity disorder (Goldin,

Katz, and Kuziemko 2006). The reasons for these gender differences have not been fully determined, but one factor suggested by Goldin, Katz, and Kuziemko (2006) may be the later maturation of boys. Regardless of their source, to the extent that females have lower total (pecuniary plus nonpecuniary) costs of investing in education on average than males, they will have a larger response to given increases in the benefits of college.

Becker, Hubbard, and Murphy (2010) also focus on noncognitive skills, but emphasize gender differences in their *distribution*. They present evidence that the variance in noncognitive (or what they call nontraditional) skills is smaller for women than men, suggesting that under some circumstances, the elasticity of supply to college will be higher for women than men. This depends on the location of the relevant portion of the distribution of costs. If, as appears likely, the relevant portion is close to the mean of costs, the density of individuals that can respond to an increase in benefits is larger for a lower-variability distribution that peaks around the mean—as is the case for women. If women have a higher elasticity of supply to college, then even for equal changes in the benefits, women can overtake men in college attainment.

Gender differences in one cognitive skill, mathematics, have gotten particular attention. A gender differential in mathematics ability and preparation as indicated by test scores is potentially linked to gender differences in wages and occupations. Traditionally, US males have had higher average mathematics test scores than females, as well as higher representation at top performance levels. As noted earlier, the gender difference in math scores has narrowed as high school curricula of boys and girls have gotten more similar. Indeed, some evidence indicates that boys no longer have higher average math test scores

during their high-school years than girls.²⁸ However, there is continuing evidence of a gender difference at top performance levels, with males outnumbering females at the very high ranges of science and math tests, and females outnumbering males at the very high ranges of reading and language tests (e.g., Pope and Sydnor 2010). The male advantage at the upper end of math test scores has been cited as a factor in the underrepresentation of women in STEM fields, although this contention has been the focus of considerable debate.²⁹ Of particular interest, a significant strand of recent research focuses on the social determinants of these differences and implicitly asks whether gender differences in math performance may be influenced by educational policy and other environmental factors.

Evidence that social influences matter comes from a variety of sources. For example, several studies document considerable geographic variation in the gender gap in measured mathematics ability at the mean and at the top levels of performance, both within the United States (Pope and Sydnor 2010) and across countries (Guiso et al. 2008; Fryer and Levitt 2010; and Nollenberger, Rodríguez-Planas, and Sevilla 2016). Of

²⁸Hyde et al. (2008); this study used data from state assessments of cognitive performance. However, Fryer and Levitt (2010) continue to find a gender gap at the high-school level using the Early Childhood Longitudinal Study kindergarten cohort, which is a sample of children entering kindergarten in 1998. Both studies are critical of SAT data since the pool of students taking the test is not representative of the full population and selection into the test may differ by gender.

²⁹For example, while Hyde et al. (2008) note the slightly greater variance of male test scores in their data, they argue that gender differences along this dimension “are insufficient to explain lopsided gender patterns in participation in some STEM fields.” In their extensive review, Ceci et al. (2014) are also skeptical that math differences can account for the female underrepresentation in math-intensive fields. For an early study delineating the relationship between mathematical ability and field choice and its relationship to male–female differences in earning and occupations, see Paglin and Rufolo (1990).

particular interest, Guiso et al. (2008) find that girls' math scores were positively related to indicators of country-level gender equity,³⁰ and Nollenberger, Rodríguez-Planas, and Sevilla (2016) report parallel findings that the mathematical performance of girls relative to boys among second-generation immigrants (i.e., native-born children of immigrants) is positively related to an indicator of gender-equity indexes in the *parents'* source country. In addition, the falling gender gap in math performance mentioned earlier also suggests that gender differences in math scores are affected by environmental factors. Moreover, the framing of the test can affect females' performance, as found by Spencer, Steele, and Quinn's (1999) research on stereotype threat: they found that women did as well as men on a difficult math test if they were told that men and women tended to do equally well; however, if women were told that women tend to perform less well than men, then they did worse than men on the test. And, in some cases, teachers may discriminate against girls in their assessment of math tests, as found by Lavy and Sand's (2015) study of Israeli schools.

Is the gender gap in math test scores sufficient to account for an important portion of the gender pay gap? In her study of the impact of psychological factors on the gender pay gap, Fortin (2008) estimated wage regressions for two cohorts (the National Longitudinal Study of the High School Class of 1972—NLS 72—and the National Education Longitudinal Study

of 1988/94—NELS 88) and controlled for their scores on a math test taken while they were seniors in high school. Fortin's (2008) focus was on the impact of psychological factors, but her inclusion of math scores in her wage regressions allows us to assess their quantitative importance.³¹ Her tabulations show that, while males outscored females on the math test, consistent with our earlier discussion, the gap in standardized scores was smaller for the later cohort. For workers in their mid-twenties in the earlier cohort, in 1979, the difference in scores accounted for 4.4 percent of the raw pay gap (of 0.237 log points), not controlling for completed schooling, and 3.0 percent controlling for completed schooling.³² For workers in their mid-twenties in the later cohort, in 2000, the effects were much smaller: 1.4 percent of the raw pay gap (of 0.181 log points) not controlling for completed schooling, and 0.7 percent controlling for schooling. Notably, these small effects do not control for occupation, which is a likely route through which math ability can affect earnings. Thus, differences in math scores do not appear to account for much of the raw gender pay at a point in time. However, our calculations based on the Fortin study suggest that the declining gender difference in math scores between the two cohorts can account for 10–14 percent of the 0.056 log point decrease in the gender wage gap across cohorts.

³⁰ However, Fryer and Levitt (2010) report that the finding that the gender math gap is linked to measures of gender equality is sensitive to the inclusion of Muslim countries where, although women have very low measured status, there is little or no gender gap in math. Hoffman, Gneezy, and List (2011) provide intriguing experimental evidence in support of the role of environment with their finding that the gender gap in spatial abilities disappears when one compares a matrilineal to an adjacent patrilineal society in Northeast India.

³¹ We multiply the gender gap in the test score by the estimated wage coefficient on the test score, which comes from a regression that pools men and women.

³² These regressions control for part-time employment, experience, and personal characteristics (race, marital status, and presence of children), as well as a number of noncognitive traits (self-esteem, external locus of control, importance of money/work and family/people). However the estimated effect of math score is similar in the fully specified model when the noncognitive traits are excluded.

3.4 Labor-Force Experience and Work Hours

In this section, we focus on the empirical literature that illuminates the importance for the gender wage gap of work experience and work hours. Dating from the seminal work of Mincer and Polachek (1974), gender differences in experience and labor-force attachment have been seen as central to the understanding of the gender wage gap. Under a traditional division of labor by gender in the family, women will anticipate shorter and more discontinuous work lives as a consequence of their family responsibilities; they will thus have lower incentives to invest in on-the-job training than men. Their resulting smaller human-capital investments and reduced labor-market experience will lower their relative earnings. Human capital depreciation during workforce interruptions will further lower the wages of women upon their return to market work. Women are also expected to choose occupations for which human-capital investments are less important and in which the skill depreciation that occurs during time spent out of the labor force is minimized (Polachek 1981).

Further insights are obtained by distinguishing between general training (which is transferable across firms) and firm-specific training (which imparts skills that are unique to a particular enterprise).³³ Women will especially avoid jobs requiring large investments in firm-specific skills because the returns to such investments are reaped only as long as one remains with a particular employer. At the same time, employers are expected to be reluctant to hire women for such jobs because they bear some of the costs of firm-specific training. (Since general

training is transferable, a simple model predicts that employees will bear the costs and reap the returns to such training, although under certain circumstances firms may share the costs and benefits here as well; see Acemoglu and Pischke 1999). Employer discrimination for jobs requiring firm-specific training would be consistent with models of statistical discrimination where, given employer uncertainty about worker productivity or stability, firms may discriminate against groups like women or minorities based on real or perceived average differences (Phelps 1972; Aigner and Cain 1977; Royalty 1996). As Altonji and Blank (1999) point out, such discrimination is plausible, given evidence that firms face uncertainty about the productivity of their workers.³⁴

Recent work by Goldin (2014) continues to highlight the role of work-force interruptions in lowering women's wages but outlines a different mechanism for this effect. Goldin (2014) analyzes the impact of interruptions in the context of a broader analysis of the impact of temporal flexibility (or the lack thereof) in impacting the gender wage gap. In particular, she focuses on the disproportionate rewards in some occupations/firms for working long hours and particular hours.³⁵ Her main focus is on hours of work, but as she notes, interruptions can also be analyzed in this context. She argues that

³⁴See, for example Farber and Gibbons 1996; and Altonji and Pierret 2001; or, more recently, Kahn (2013) and Kahn and Lange (2014).

³⁵In related work, Cha and Weeden (2014) examine the role of an increase in the prevalence of long (fifty or more) work hours and the rising returns to long hours in slowing convergence in the gender wage gap during the 1979–2009 period. They find that this factor worked to increase the gender wage gap by about 10 percent of the total change over this period—mainly due to the rising return to long hours (the gender gap in the incidence of long hours was relatively constant). This factor was particularly important in managerial and professional occupations. Cortés and Pan (2016) provide evidence on the impact of long hours on the gender wage gap among skilled workers, taking into account the endogeneity of hours.

³³See Becker (1993) for this distinction and Blau, Ferber, and Winkler (2014) for a graphical development of its application to gender differences in on-the-job training investments.

the explanation for a high wage penalty for temporal flexibility can best be understood through the lens of personnel economics rather than human-capital theory. In particular, she sees such pay differences as arising because of differences across workplaces in the value of long hours, rather than of differences across individuals in amounts of human capital. The result is a classic compensating differential equilibrium à la Rosen (1986). Workers place different values on temporal flexibility (with women placing a higher value on it than men) and firms or sectors confront different cost to providing it—workers sort across workplaces accordingly.³⁶

Goldin points to (and presents empirical support for) the importance of occupational characteristics that make providing flexibility extremely costly in some sectors and relatively inexpensive in others. So, the wage penalty for flexibility is likely to be high in jobs that require meeting deadlines (time pressure), being in contact with others to perform the job, maintaining and establishing interpersonal relationships, adhering to preset schedules, and doing work for which other workers are not close substitutes. As an example, there may be a high penalty to shorter hours or workforce interruptions for lawyers at a large, high-powered firm, not because of the smaller amount of human capital acquired by those working fewer hours or the depreciation of their human capital stock during time out of work, but rather due to interruptions in servicing clients and the inability to smoothly hand over work to other employees. We shall return to her findings below in the context of our discussion of individual occupations.

³⁶Flabbi and Moro (2012) build a search model in which women's demand for flexibility leads to the kind of compensating differential Goldin (2014) discusses. Interestingly, Flabbi and Moro (2012) define flexibility as having a part-time job, explicitly making the connection between work hours and flexibility.

The Goldin analysis is interesting in itself and also highlights that findings showing returns to long hours and labor-market experience and penalties to workforce interruptions are susceptible to other interpretations than human capital. In addition to the factors that Goldin highlights affecting the costs of providing flexibility, others include signaling or screening³⁷—longer hours and workforce continuity may signal greater willingness to work hard, as well as greater motivation and commitment, and be used by employers to screen for those traits. Related to the signaling argument, discrimination may be due to statistical discrimination against the “type” of worker who puts a high premium on temporal flexibility.

As we have seen in section 2, and as borne out in a wide literature, there is considerable evidence that overall gender differences in labor-market experience account for a significant, though shrinking, portion of the gender wage gap, and that decreases in the gender experience gap help to account for the corresponding decline in the gender wage gap that we have observed in recent decades (e.g., Blau and Kahn 1997; Blau and Kahn 2006; O'Neill and Polachek 1993; Gayle and Golan 2012).³⁸ Our results in section 2 imply that gender differences in experience explained 24 percent of the gender gap in 1980 compared to 16 percent of the (considerably smaller) gender gap in 2010,

³⁷See, for example, Landers, Rebitzer, and Taylor (1996); see Goldin (2014) for additional references.

³⁸Bailey, Hershbein, and Miller (2012) explore the role of access to the pill in altering women's human-capital investments (labor-market experience and education) and hence lowering the gender wage gap. Weinberger and Kuhn (2010) examine the extent to which the decline in the gender wage gap was associated with changes across cohorts in the relative rate of wage growth after labor market entry (slopes), versus changes in relative earnings levels at labor-market entry (levels). They find that the former (plausibly associated with post-school investments including experience) accounts for about one-third of the decline, with the remainder associated with changes across cohorts (i.e., each entry cohort faring better than its predecessor).

while the declining gender difference in experience accounted for 18–31 percent of wage convergence between men and women over the 1980–2010 period.³⁹

As we have seen, Mincer and Polachek (1974) also point to a negative effect on women's wages of workforce interruptions. Some evidence has been found in support of this expectation. For example, Light and Ureta (1995) analyzed young workers over the 1966–84 period and found that the *timing* of labor-market experience accounted for as much as 12 percent of the unadjusted gender pay gap. However, it is possible that the role of workforce interruptions has diminished as women have become more firmly attached to the labor force. Consistent with this, Blau and Kahn (2013b) find that, although coefficients on variables measuring time out of the labor force are generally negative (though not always significant), estimates of the unexplained gender wage gap are not sensitive to their inclusion, not only in 1999, but in 1990 and 1980 as well.⁴⁰ Their data from the PSID did not permit them to look at the timing of interruptions, but Spivey (2005), using data from the National Longitudinal Survey of Youth 1979, found that timing of experience can explain only a negligible

portion of the gender wage gap among workers observed over the 1979–2000 period.⁴¹

The foregoing results suggesting a relatively small and diminished role for workforce experience and interruptions in explaining the gender wage gap currently are for the labor market as a whole. In contrast, recent influential work has highlighted the particular importance of labor-force experience, interruptions, and hours worked in some occupations, including business and professions like law, where work histories and current hours seem to be a particularly important determinant of gender wage differences. Also of interest are findings from Goldin (2014) that point to the high penalty for flexibility in some high-wage occupations. This work is of particular interest in that the findings are applicable to the upper end of the wage distribution where, as we have seen, the gender wage gap has declined more slowly than at other regions.

Looking first at lawyers, Noonan, Corcoran, and Courant (2005) focused on two cohorts of graduates of the University of Michigan Law School fifteen years after graduation; the first cohort was surveyed between 1987 and 1993 and the second between 1994 and 2000.⁴² The results for the two cohorts were quite similar. The gap in pay between women and men was found to be relatively small at the outset of their careers, but fifteen years later, men earned over 50 percent more. A considerable portion of this difference reflected choices that male and female workers made, including the greater propensity of women lawyers to currently work shorter hours and to have worked part time in the past or to have taken some time out after childbirth.

³⁹Published government data on tenure (length of time with a particular employer) also indicate a precipitous drop in the gender gap. In 1966, men's median tenure was 2.4 years more than women's; by 2012, the gender gap had fallen to only 0.1 years. And the share of long-term workers, those with tenure of 10 or more years, was only slightly higher for men (35 percent) than for women (33 percent). See, US Department of Labor, Bureau of Labor Statistics, "Job Tenure of Workers, January 1966," *Special Labor Force Report* No. 77 (1967); and US Department of Labor, Bureau of Labor Statistics, "Employee Tenure in 2012," News Release (September 18, 2012), available at <http://www.bls.gov/news.release/pdf/tenure.pdf> (accessed December 1, 2012). Note median tenure data are for workers sixteen and over; the share of long tenure is for workers twenty-five and over.

⁴⁰Data are for full-time workers aged 18–65 in the indicated year.

⁴¹Respondents were 14–22 in 1979. Spivey provides a useful review of the literature on the wage effects of workforce interruptions.

⁴²See also Goldin's (2014) reexamination of these data that arrives at broadly consistent findings.

Also important was job setting (type and size of employer).

Bertrand, Goldin, and Katz (2010) examined earnings of MBAs who graduated between 1990 and 2006 from the Booth School of Business of the University of Chicago (they were surveyed in 2006–07). Like the study of lawyers, the researchers reported a relatively small gender differential at the outset of the career. However, averaged across the full set of MBA graduates (individuals who had been out for one to sixteen years), men earned 0.29 log points (33 percent) more than women. By 10–16 years post-degree, men earned 0.60 log points (82 percent) more. The study found that the gender gap could largely be explained by labor-supply factors like weekly hours and actual post-MBA work experience, which were in turn related to career–family tradeoffs.

This research suggests substantial penalties for shorter hours, lesser experience, and workforce interruptions among JDs and MBAs. With respect to hours, it should be noted that both of these decompositions focus on annual earnings, leaving open whether the importance of current hours reflects simply a proportional reduction in earnings or an additional hourly wage penalty for shorter hours. Moreover, these results could be seen in the context of the human-capital model, and the particular importance of human capital in these occupations. Goldin (2014), however, views such results as more consistent with her analysis of the high penalties to *flexibility* in these and other high-level occupations, including a convex return to current hours.⁴³

⁴³Goldin (2014) notes that about two-thirds of the total penalty from job interruptions among those in the Chicago MBA sample who were ten to sixteen years out is due to taking *any* time out. Cumulative time not working is only about one year for these women, which would seem a relatively modest interruption to elicit large penalties in a human-capital context.

More generally, for college graduates in the ninety-five highest-earnings occupations, she found that an index of occupational characteristics associated with high costs of flexibility was positively related to (i.e., increased) the (adjusted) gender log wage gap, as was the estimated elasticity of annual earnings with respect to weekly hours in the occupation. Business occupations and law had high values on the inflexibility index and high elasticities of annual earnings with respect to weekly hours, while technology and science jobs scored much lower on the inflexibility measure and had smaller elasticities.⁴⁴ The latter finding is surprising in a human-capital context in that it might be expected that human-capital acquisition and depreciation of skills would be particularly important in science and technology jobs. As a further contrast to business and law, Goldin provides a case study of pharmacists (see also Goldin and Katz 2016) in which industry developments and technological factors have greatly reduced the costs of flexibility and the gender pay gap has fallen accordingly.

At the other end of the spectrum from long hours among full-time workers is the large gender difference in the incidence of part-time work. For example, among wage and salary workers in 2013, 25.6 percent of women and 13.0 percent of men worked part time, defined as usually working less than thirty-five hours per week (BLS 2014, p. 27). The gender gap in the incidence of part-time work was slightly larger in 1998, with 25.8 percent of women and 10.7 percent of men working part time (BLS 1999, p. 2). Because part-time workers have lower hourly earnings than full-time workers (Blank 1990; Hirsch 2005), the higher incidence of

⁴⁴Hersch (2013) found that the presence of children reduced labor-market activity more for married women from elite colleges than for married women from less selective institutions, with MBAs having the largest difference.

part-time work among women than among men has the potential to increase our estimate of overall gender pay gap compared to the data on full-time workers we presented in section 2. Recall, however, that when we extended the sample of workers in the PSID to include all wage earners, the conclusions were largely unchanged. Nonetheless, given the greater concentration of women in part-time work, it is instructive to consider wage determination among part-time workers and look explicitly at the extent of the part-time penalty.

A simple economic view of part-time work is similar to that offered by Goldin (2014) described above, namely that it is an amenity for those who value flexibility in their work schedule. Since it may cost firms something to allow workers to choose part-time hours (e.g., additional hiring and training expenses), workers' desires for flexibility suggest the formation of an equilibrium-compensating wage differential for part-time work, in this case a penalty in hourly wages. Some support for this view of part-time work can be seen by noting that, in 2014, of 25.1 million workers who usually worked part time, 19.5 million (78 percent) did so for noneconomic reasons, according to the BLS (<http://www.bls.gov/cps/cpsaat20.htm>, accessed August 9, 2015).⁴⁵ Thus, most workers chose part-time work for reasons other than the lack of availability of full-time jobs, although involuntary part-time employment can be important, especially during recessions (Blank 1990). In addition, the possibility of discrimination may influence the family division of labor and lead women to choose part-time employment for some of the reasons listed by the BLS as voluntary (such as child care).

Estimates of the impact of part-time status on wages confront the issue of selection, since the type of worker choosing

part-time employment may well have different measured and unmeasured productivity characteristics from full-time workers. While research is not extensive, it does not appear to support the finding of a part-time penalty, once measured characteristics and selection on unobservables have been taken into account.

For instance, an early analysis of the part-time penalty by Blank (1990) for 1987 used both instrumental variables and selectivity bias-correction to address the selection problem. She found that taking into account personal and job characteristics in an OLS regression led to a 0.21 log point (24 percent) part-time penalty for women and a 0.30 log point (35 percent) penalty for men. However, the results were mixed when she took into account selection and she stressed that unmeasured worker and job heterogeneity were likely important in explaining the observed penalty.

An alternative method for addressing selection that does not require exclusion restrictions is to use longitudinal data and individual fixed effects. Using this approach, Hirsch (2005) found for 1995–2002 data that there was a raw 0.22 log point part-time wage shortfall for women and a 0.46 log point part-time shortfall for men. However, after controlling for worker and job characteristics, including occupational-skill requirements, in an OLS regression, the estimated part-time penalty fell to 0.09 log points for women and 0.19 log points for men. Thus, most of the observed part-time shortfall in wages was associated with observed worker and job characteristics. Moreover, using the longitudinal nature of the CPS rotation group structure, he found, in wage change equations, part-time penalties of only 0.015 log points for women and 0.019 for men (the latter estimate was statistically insignificant). Thus, Hirsch (2005) concludes that the observed difference between part-time and full-time workers' wages is fully explained

⁴⁵Noneconomic reasons included child care, health, family obligations, school attendance, and the like.

by measured worker and job characteristics and unobserved worker heterogeneity.⁴⁶ Of course, part-time work could adversely affect one's career progression relative to full-time work, which is a separate issue.

3.5 Gender Differences in Formal Training and Turnover

Considerable empirical evidence supports the prediction of the human-capital model that women will receive less on-the-job training than men, although much of it is not very recent (e.g., Altonji and Spletzer 1991; Barron, Black, and Loewenstein 1993). This finding is consistent with employer and worker decisions based on a lower expected probability of women remaining with the firm or in the workforce. A study by Royalty (1996) is particularly illuminating in that she explicitly examined the role of women's higher (predicted) probability of turnover in explaining the gender training difference. While Royalty supports the expectation that anticipated turnover helps to account for the gender difference in training, interestingly, she finds that a major portion of the training gap remains unexplained even after this and other determinants of training are taken into account. This finding, which is analogous to an unexplained gap in an analysis of the gender wage differential, is consistent with a role for discrimination, although, as in that case, it may also be due to omitted factors.

As in the case of experience, it would be interesting to see this literature updated to account for the impact of rising women's labor-force attachment on the findings. This is especially the case in that younger cohorts of women now have higher educational attainment than men, and more-educated workers are believed to get more on-the-job training

than less-educated workers as implied by their steeper experience-earnings profiles.⁴⁷

Since gender differences in quit behavior can differentially impact the wages and occupations of men and women, it is important to ascertain the extent and sources of such differences. In general, while some evidence suggests that women workers may have higher quit rates on average than men, most of this difference has been found to be due to the types of jobs they are in and the worker's personal characteristics.⁴⁸ That is, *all else equal*, women are no more likely to quit than their male counterparts. Indeed, it is unclear that even the average gender difference in quitting still prevails. Using data on young workers from the 1987 wave of the National Longitudinal Survey of Youth (NLSY) 1979, Royalty (1998) finds the average probability of staying on the job is not significantly different for men and women.

However, consistent with women placing a greater priority on family responsibilities to the detriment of their labor market outcomes, evidence indicates that women are more likely to quit their jobs for family-related reasons or to exit to nonemployment, while men are more likely to quit for job-related reasons (Sicherman 1996; Royalty 1998; and Keith and McWilliams 1995), adversely affecting women's wages relative to men's (Keith and McWilliams 1995). It would be of interest to see analyses of both quitting and the reasons for quitting updated to see whether the outlines of the earlier findings still hold. In light of the declining gender differences in

⁴⁷In a study using data from the NLSY1979 through 2006, Kosteas (2013) found that, consistent with expectations based on the human capital model, women with more traditional gender role attitudes (as measured in 1979) were less likely to invest in training. While Kosteas did not examine results for men, this finding suggests that gender roles are still relevant for some women.

⁴⁸This finding dates back to the first detailed work on this topic by Viscusi (1980) and Blau and Kahn (1981) and is reflected in the findings of more recent studies, e.g., Sicherman (1996); and Royalty (1998).

⁴⁶There are also a number of studies that look within industries and occupations and find the part-time penalty is small after accounting for selection; see Hirsch (2005) for a review.

labor-force attachment, it is reasonable to expect that gender differences in quit behavior have further diminished.

3.6 *The Impact of the Gender Division of Labor and Motherhood*

Traditional gender roles and women's greater responsibility for nonmarket work may negatively affect women's labor-market outcomes beyond their impact of labor-force attachment per se. In this section, we first consider the motherhood wage penalty, which has gotten considerable attention in the literature. We then review other ways in which traditional gender roles can reduce women's relative wages.

Considerable empirical evidence indicates a negative relationship between children and women's wages, commonly known as the motherhood wage penalty.⁴⁹ While the observed empirical association could be causal, it could also be due to selection. The selection argument is plausible in that women with lower wage offers will have lower costs of children. However, there are also a number of reasons for expecting a causal effect, beyond an impact on work experience and the incidence of part-time work. First, particularly in the era before parental leave was mandated, but even to some extent today, the birth of a child may cause a woman to break her tie to her current employer, either to withdraw from the labor force entirely or to switch to a more "child-friendly" job. To the extent this occurs, she forgoes the returns to any prior firm-specific training she might have received, as well as any returns to having made a particularly good job match. Second, as we have seen, anticipation of this possibility could deter both women and their

employers from making large investments in the firm-specific training of women of child-bearing age. Third, motherhood may reduce women's productivity in a variety of ways not readily captured in wage analyses including, for example, less effort expended at work (see, for example, Becker 1985; Albanesi and Olivetti 2009), constraints on work schedules and travel, and reluctance to be promoted to a more demanding job.

A final possibility is that mothers may face discrimination and there is persuasive experimental evidence from Correll, Benard, and Paik (2007) that this is the case. In this study, the authors first conducted a laboratory experiment in which they asked student evaluators to assess résumés of equally qualified same-sex (female or male) job applicants who differed only as to parental status. Mothers were perceived by evaluators as less competent and less committed to paid work, and lower starting salaries were recommended for them. In contrast, the evaluators did not penalize men for being fathers; indeed, they perceived fathers to be more committed and recommended higher starting salaries for them. Correll, Benard, and Paik (2007) further confirmed their lab findings using a field experiment in which they sent résumés and cover letters from fictional, equally qualified, same-sex applicants to employers advertising for job openings. They found that prospective employers called mothers back only about half as often as nonmothers, while fathers were not disadvantaged in the hiring process, although, in contrast to the lab experiment, fathers were not advantaged relative to nonfathers. (However, a recent experimental study in academic labor markets by Williams and Ceci (2015) did not show a motherhood penalty; we discuss this study further below.) To the extent such discrimination against mothers exists, it could be due to statistical discrimination based on employers' perceptions of average

⁴⁹For a recent review of the literature and comparative findings across economically advanced countries see Sigle-Rushton and Waldfogel (2007). Early influential treatments include Fuchs (1988); Korenman and Neumark (1992); and Waldfogel (1998).

differences in productivity between mothers and nonmothers.

There has also been some research focusing on the impact of family status on men's wages, with most of the focus on the observed strong positive association between marriage and male earnings, controlling for measured characteristics. Here again, the question arises as to whether this relationship is causal and, if so, why. The possibility that it reflects selection is intuitively plausible in that, even today, men tend to be the primary wage earners in most families. This gives women a considerable incentive to select spouses with higher earnings potential. There are, however, also reasons for expecting the relationship to be causal. Specialization in the family à la Becker (1991) allows married men to focus on the market while their wives have primary responsibility for nonmarket production. Related to this, traditional notions of gender roles that view the husband as the primary earner may increase married men's effort and motivation, and hence their wages. It is also possible that employers discriminate in favor of married men—this is hinted at by the findings on parental status discussed above. Overall, as in the case of the motherhood wage penalty, the empirical evidence suggests that some portion of the observed relationship is causal.⁵⁰

As noted earlier, women's generally greater nonmarket responsibilities could impact labor-market outcomes in a number of ways. Becker's (1985) theoretical analysis focused on the longer hours that married women and mothers tend to spend in these activities, which could reduce the effort that they put into their market jobs, controlling for

hours, and thus decrease their hourly wages compared to men. Indeed, it has been found that additional hours spent in housework are associated with lower wages, all else equal, although results are stronger for married women than married men (see, e.g., Hersch and Stratton 1997 and 2002). The Hersch and Stratton studies pay careful attention to endogeneity by estimating instrumental-variable and fixed-effect models. An interesting result in Hersch and Stratton (2002) links the strength of the negative effects to the type of housework that women are typically more likely to perform—routine tasks like meal preparation, cleaning, shopping, and laundry—that are more likely to be engaged in on a daily basis and that, the authors argue, are more likely to interfere with market productivity.

Another factor identified by research in this area is the location of the family (see early work by Frank 1978; Mincer 1978; and Sandell 1977). To the extent that families place priority on the husband's, rather than on the wife's, career in determining the location of the family, her earnings are likely to be decreased. She may be a "tied mover," relocating when it is not advantageous for her to leave a job where she has accumulated firm-specific training or that is a particularly good match. Alternatively, she may be a "tied stayer," unwilling to relocate despite better opportunities elsewhere. This pattern need not merely reflect adherence to traditional gender roles. It is economically rational for the family to place greater emphasis on the employment and earnings prospects of the larger earner (generally the husband) whose gains to migration may outweigh any losses of the spouse who is a tied mover. Cooke et al. (2009) present recent evidence that this is indeed still the case on average, i.e., that migration is associated with a significant increase in total family earnings, despite declines in women's earnings.

⁵⁰For useful reviews of the literature, see, Ribar (2004) and Rodgers and Stratton (2010). For an early influential study see Korenman and Neumark (1991). There is also some evidence that fatherhood increases male earnings, particularly when the mother experiences a workforce interruption (Lundberg and Rose 2000).

Anticipation of a lesser ability to determine the geographic location of the family may also lead women to select occupations in which jobs are likely to be readily obtained in any labor market, thus constraining their occupational choices to geographically flexible jobs. As Benson (2014) points out, even as women have entered higher-level, traditionally male occupations in recent years, their entry into the more geographically dispersed occupations (e.g., physicians, accountants, pharmacists, and managers) has been considerably greater than the more geographically clustered (e.g., specialized engineers and physical scientists). In light of the examples offered by Benson, this factor may play a role in women's lower representation in STEM fields—it would be interesting to know if being geographically clustered is a general characteristic of such jobs.

Some recent work has elaborated on how location decisions are likely to be affected as some couples, particularly college-educated “power couples,” try to accommodate both careers by making a joint location decision. Costa and Kahn (2000) report that college-educated couples became increasingly located in large metropolitan areas over the 1970–90 period. They argue that this is because large metropolitan areas offer more potential job matches for both members of the couple. They point to the increase in the share of dual-career households among the college educated over this period and note Goldin's (1997) evidence that the career orientation of college-educated women also increased. They also note that, if returns to education are higher in larger cities, power couples have a greater income loss of locating outside of them than do other dual career couples. Costa and Kahn show that the concentration of power couples in larger metropolitan areas is greater than for other household types and exceeds what would be predicted for observationally identical single

individuals, thus supporting the colocation argument.

On the other hand, Compton and Pollak (2007), using longitudinal data, do not find that power couples (again, in which both spouses have college degrees) are more likely to migrate to larger cities than other couples. Rather, their findings suggest that it is the education (and presumably the earning power) of the husband that principally affects the couple's propensity to migrate to a large metropolitan area, implying that, even among of power couples, relocations may still adversely affect women's wages relative to men's.⁵¹ This is plausible in that, even in power couples, it is likely that the husband is the higher earner, as well as more likely to be in an occupation that is geographically clustered.

3.7 *Occupations, Industries, and Firms*

In this subsection we consider empirical evidence on the extent and dimensions of employment segregation by sex. The results in section 2 indicate that, while the share of the gender wage gap due to human capital (education and experience) has declined noticeably, the share accounted for by locational factors like occupation and industry actually increased from 27 percent of the 1980 gap to 49 percent of the much smaller 2010 gap. Moreover, although occupational upgrading by women contributed to the narrowing of the gap over this period, much of this effect was offset by adverse (to women) movements in returns to occupations. The firm dimension, not accessible in data sets like the PSID and CPS that were used above, has also been shown to be important. Finally, gender differences in representation

⁵¹ They suggest that the location trends delineated by Costa and Kahn are due to higher rates of power couple formation in larger metropolitan areas. They also note that the trend of increasing concentration of power couples in larger metropolitan areas did not continue between 1990 and 2000.

across the hierarchies within occupations, as particularly emphasized in discussions of the glass ceiling, constitute another dimension of employment differences that is also generally not captured by these data sets, at least directly. Indirectly, some light on this may be shed by quantile-regression analyses focusing at the top, as illustrated by our estimates in section 2.

Of these dimensions of employment differences, occupational differences between men and women have received the most attention. Gender differences in occupations have been and continue to be striking, although they have declined significantly since 1970. In terms of general outlines, in 1970, women were considerably more concentrated than men in administrative support and service occupations, and a bit more highly represented in professional jobs overall, and particularly in predominantly female professions like teaching and nursing. Men were considerably more likely to be in managerial jobs and much more concentrated than women in blue-collar occupations, including relatively high-paying craft and skilled positions. They were also considerably more likely than women to be in predominantly male professions like law, medicine, and engineering. Since 1970, women have reduced (but not eliminated) their overrepresentation in administrative support and service jobs and made significant inroads into management and male professions.⁵² There has been little change in gender differences in representation in blue-collar occupations. However, occupational dissimilarity has

been reduced by men's loss of production jobs and increased representation in service occupations.⁵³

The Census provides information on some 500+ detailed occupational classifications. The Duncan and Duncan (1955) segregation index provides a useful summary measure, giving the percentage of females (or males) who would have to change jobs for the occupational distribution of women and men to be the same, with a value of 0 indicating no segregation and a value of 100 indicating complete segregation. Early work suggested little change in the extent of occupational segregation prior to 1970 (Gross 1968; Jacobs 1989). Starting in 1970, there was considerable progress in reducing the extent of occupational segregation (Beller 1982; Bianchi and Rytina 1986). For the 1970–2009 period Blau, Brummund, and Liu (2013a, 2013b) provide estimates based on a comparable set of Census occupational categories for 2000.⁵⁴ They report that the index was 64.5 in 1970 and fell to 51.0 by 2009, a sizable decline from an extremely high initial level. However, the index declined at a diminished pace over the decades, falling by 6.1 points over the 1970s and 4.3 points over the 1980s, but only 2.1 points over the 1990s and just 1.1 points (on a decadal basis) over the 2000s. They also report that trends differed across educational groups: substantial progress was made by highly educated women, who succeeded in moving into formerly male managerial and professional occupations; gains were smaller for less-educated women, reflecting the lack of progress in integrating male blue-collar occupations.

While the overall decline in segregation was substantial, the 51 percent figure for

⁵²In some cases, women's entry into predominantly male occupations has been sizable enough to result in "resegregation" of the occupation as predominantly female. Reskin and Roos (1990) provide examples where this has occurred due to technological change that reduced occupational requirements. Pan (2015) suggests it may also reflect occupational tipping, where the female share of an occupation becomes high enough that men exit (or avoid entering) because they prefer not to work in an occupation with too many women.

⁵³This discussion is based on Blau, Ferber, and Winkler (2014), chapter 7; 1970 occupational data were converted into Census occupational categories for 2000 using a cross-walk developed in Blau, Brummund, and Liu (2013b).

⁵⁴Their findings are similar to earlier studies for overlapping periods, where available.

2009 indicates that occupational differences between men and women remain large. A sizable literature indicates that female occupations pay less than male occupations for workers with similar measured characteristics (e.g., Levanon, England, and Allison 2009).⁵⁵ Our estimates in section 2 imply that occupational differences can explain (in an accounting sense) one-third of the gender wage gap in 2010. This estimate includes controls for actual labor-market experience and industry, but is based on only twenty-one occupations. Nonetheless, it is very similar to Goldin's (2014) estimate for a number of samples (based on education and labor-force attachment) based on the American Community Survey (2009–11) using the full set of three-digit occupations, but with no control for actual experience (which is not available in the ACS) or industry. Our results in table 4 also indicate that occupation is the largest single factor accounting for the gender pay gap, with the second being industry (fourteen categories and government employment) at 18 percent. Taken together, occupation and industry differences account for over one-half of the gender wage gap. There has been less focus in the literature on industry differences in explaining the gender wage gap.

Another related dimension of employment differences between men and women that has also gotten less attention, perhaps

in part due to data limitations, is gender differences in the distribution of employment by firm. An early study by Blau (1977) presented evidence of high levels of employment segregation of men and women by firm *within* narrowly defined occupational categories and showed its important contribution to gender wage differentials within occupations. She developed a model in which employer tastes for discrimination against women à la Becker (1971) are widespread, but the ability to exercise them is constrained by the firm's position in the wage hierarchy, which is determined by a variety of institutional and market forces and cannot easily be altered to accommodate employer discriminatory preferences (comparable to the notion of firm effects). Consistent with this model, she found women were concentrated in firms that paid lower wages to *both* men and women across all occupations, and conversely men tended to be employed at the firms that paid higher wages to both sexes. Subsequent work confirmed the continued importance of differences in the distribution of employment across firms in accounting for overall gender wage differences, although Groshen (1991) finds a larger role for firms than Bayard et al. (2003).

With the growing availability of matched firm–worker data, the firm dimension has the potential to become an increasingly active area of research. For example, recent work has considered the role of monopsony in explaining the gender wage gap. A number of studies (discussed in greater detail below) find, consistent with a role for monopsony, that women have lower labor-supply elasticities to the firm than men. One of these studies, Webber (2016), uses matched firm–worker data and reports that women's lower labor-supply elasticities are primarily due to cross-firm, rather than within-firm, differences in elasticities, suggesting a reason why firms that disproportionately employ women tend to be lower paying overall. As

⁵⁵Early studies highlighting the empirical importance of occupational and in some cases industry differences in explaining the gender wage gap include Fuchs 1971; Blinder 1973; Oaxaca 1973; and Sawhill 1973. For examples of early studies examining the effect of percent female in the occupation on earnings, see Sorensen (1990) and Macpherson and Hirsch (1995); there is also a wide literature in sociology examining this issue, see Levanon, England, and Allison (2009) for a review. More recently some research suggests that “care work”—occupations in which “concern for the well-being of others is likely to affect the quality of services provided”—may pay less *ceteris paribus*. For a review, see Folbre (2012), quotation is from p. 66; see also Hirsch and Manzella (2015). Women are disproportionately represented in such jobs.

another example, a recent study by Card, Cardoso, and Kline (2016), using Portuguese firm–worker data, investigates the relative importance of sorting across firms (i.e., women’s greater likelihood of working at low wage firms) and within firm bargaining (with women receiving less of the premium men receive in working for high-wage firms) in explaining the gender wage gap. They find evidence that both factors play a role.

Finally, not only do men and women tend to work in different occupations, they also tend to be employed at different levels of the hierarchy within occupations. This is the case in a number of arenas, ranging from business to academia to unions. So, for example, recent data on Fortune 500 companies indicate that, although women are nearly half of managers, they comprise only 14.3 percent of executive officers, and 3.8 percent (19) of CEOs, and hold just 16.6 percent of board seats.⁵⁶ Or, in law, women are less likely than men to be employed as partners in large firms (over 50)—as was true for 26 percent of male, compared to 14 percent of female, 1979–85 graduates of the University of Michigan Law School fifteen years after graduation (Noonan, Corcoran, Courant 2005). Similarly, in 2012 only 15 percent of AFL–CIO executive council members were women.⁵⁷ And, as a final example, in academia, the female share decreases as we move up the ranks—from assistant

professors (61 percent) to associate professors (50 percent) to full professors (28 percent) (Blau, Ferber, and Winkler 2014, chapter 7).

In all these cases, it is difficult to determine whether the scarcity of women at the top is simply due to the fact that women are relative newcomers and it takes time to move up through the ranks (the “pipeline” argument) or whether it represents particular barriers to women’s advancement (i.e., a “glass ceiling”). Moreover, a lower representation of women at higher levels could be due to discrimination or subtle barriers facing women, but could also reflect greater work–family conflicts for women that reduce their productivity and/or interest in high-level positions.

Nonetheless, there are indicators that at least some of the gender difference reflects discrimination. For example, a number of studies (e.g., Blau and DeVaro 2007; Cobb-Clark 2001; McCue 1996; and Addison, Ozturk, and Wang 2014 for college women), find that women are less likely to be promoted, all else equal, although some do not (e.g., Hersch and Viscusi 1996). For academics, some studies find lower probabilities of promotion for women, even after accounting for indicators of qualifications like number of publications, although results differ by field and gender differences appear to have diminished in recent years (Ginther and Kahn 2014; and Ceci et al. 2014).⁵⁸ The possibility of discrimination is further suggested by studies in both the corporate world (Bell 2005; Shin 2012; Kurtulus and Tomaskovic-Devey 2012) and academia (Ehrenberg et al. 2012), finding that women at the lower ranks fare better (in terms of representation or wages) when

⁵⁶Data on executive officers are for 2012 and for CEOs and boards of directors for 2011. See *2012 Catalyst Census: Fortune 500 Women Executive Officers and Top Earners*, available at <http://www.catalyst.org/> (accessed December 11, 2012); Catalyst, *Catalyst Pyramid: U.S. Women in Business* (New York: Catalyst, 2012), available at www.catalyst.org (accessed December 21, 2012); and *2012 Catalyst Census: Fortune 500 Women Board Directors*, available at <http://www.catalyst.org/> (accessed December 11, 2012).

⁵⁷“About AFL–CIO,” at www.aflcio.org, accessed March 2012. The American Federation of Labor–Congress of Industrial Organizations (AFL–CIO) is the largest union federation in the United States.

⁵⁸Focusing on the most recent research, evidence of a *ceteris paribus* female shortfall in promotions is found for economics and the life sciences, but not for other social sciences and natural sciences.

women are more highly represented at the higher ranks.⁵⁹

A study by Gayle, Golan, and Miller (2012) on executives finds that women are less likely overall to become executive managers. However, the authors attribute this difference to women's greater likelihood of leaving the occupation; among those who survive in the occupation, the authors find that women are in fact more likely to be promoted, all else equal. Whether women's higher exit level is due to discrimination is, in the authors' view an open question. We would also point out that, given women's higher exit rate, women survivors in the executive labor market may be an especially positively selected group, which might suggest that a promotion comparison could understate *ceteris paribus* gender differences.

Whatever the sources of the women's lesser representation at the top, research suggests it can have substantial consequences for gender wage differences. For example, our own data analyses in section 2 indicated that gender wage gaps at higher levels of the wage distribution were larger and declined more slowly over time than at lower levels. And, as we noted, this result appears in line with other research both in the United States and abroad. As another example, Bertrand and Hallock's (2001) study of gender differences in pay among the five highest-paid executives in S&P 1500 firms found that the 2.5 percent of executives in their sample who were women earned 45 percent less than their male

counterparts. This was partly due to female executives being younger and thus having less seniority. However, three-quarters of the gender pay gap was due to women managing smaller companies, as well as their lower likelihood of being the CEO, chair, or president of their company.

3.8 *Theoretical Perspectives on Labor-Market Discrimination*

To the extent that gender differences in outcomes are not fully accounted for by productivity differences due to gender differences in human capital and other supply-side sources, models of labor-market discrimination offer an explanation. Theoretical work in this area was initiated by Becker's (1971 [1957]) model of racial discrimination. Becker conceptualized discrimination as a taste and analyzed three cases: those in which the discriminatory tastes were held by employers, coworkers, and customers or clients. Under certain circumstances, such discrimination will cause a wage differential between men and women. Discriminatory employers will only hire women at a sufficient wage discount that compensates them for the disutility of employing women. Discriminatory male workers will demand a wage premium to work with women, thus raising men's relative wages, and the reluctance of discriminatory customers or clients to buy goods or services provided by women will make women less productive in terms of revenue brought in, thus depressing their relative wages.

Becker (1971 [1957]) and others (e.g., Arrow 1973) have pointed out that competitive forces should reduce or eliminate employer discrimination in the long run because the least discriminatory firms, which hire more lower-priced female labor, would have lower costs of production and should drive the more discriminatory firms out of business. One answer to why this does not appear to have occurred, suggested initially

⁵⁹A recent paper by Bertrand et al. (2014) examining the effects of corporate board quotas for women in Norway found that the reform increased the representation of women on corporate boards and reduced their pay gap relative to male board members. However, although they found evidence suggestive of a growing representation of female employees at the very top of the firms' income distribution (top five highest earners), they did not find evidence of female gains elsewhere in the firms' income distribution (i.e., they found no evidence of "trickle down" below the top five highest earners).

by Becker himself, is that discrimination will be located in sectors of the economy that are not competitive.

While Becker emphasized monopolistic elements in the product market, a related approach targets monopsonistic power on the part of the employer in the labor market (e.g., Madden 1973; Black 1995).⁶⁰ Monopsony could help to explain how discriminatory gender wage differences arise and persist if employers wield greater monopsony power over women than men. For this to hold, women's supply of labor to the *firm* must be less wage elastic than men's. This might seem counterintuitive at first blush, in that there is clear evidence that women have a *larger* own-wage elasticity of labor supply to the *labor market* than men, although, as noted previously, in the United States the gender difference has been decreasing since 1980 (Blau and Kahn 2007; Heim 2007). However, a variety of factors could still potentially result in women having a smaller responsiveness to wage changes at the firm level. Perhaps the most intriguing possibility is discrimination itself. Black (1995) develops a model in which search costs give employers a degree of monopsony power. If there is discrimination against women, women will face higher search costs than men, increasing employers' monopsony power over them.

In addition, models of statistical discrimination (Phelps 1972) were developed, in part to explain the persistence of discrimination in the long run in the face of competitive forces. Such models assume uncertainty and imperfect information; thus, differences between groups in the expected value of productivity or in the reliability with which productivity may be predicted may result in differences in the treatment of members of

each group. As a consequence, firms may pay women less, exclude them from jobs requiring substantial firm-specific training, or deny them promotions (for promotions, see Lazear and Rosen 1990).

It has been argued that such statistical discrimination (making decisions on the basis of the average characteristics of the group) is consistent with profit maximization and can thus persist in the face of competitive forces. However, Aigner and Cain (1977) contend that such models are no more convincing in explaining the persistence of discrimination than models based on tastes. To the extent that employers' views are correct, the lower expected productivity of women will reduce their wages, but women as a group will be paid their expected productivity. This does not constitute labor-market discrimination as economists define it, i.e., pay differences that are not accounted for by productivity differences. Moreover, they argue that when employer beliefs regarding average differences are erroneous, discrimination clearly exists, but discrimination based on such misperceptions is even less likely to persist in the long run than discrimination based on tastes. However, if women's productivity is less reliably predicted than men's, this difference may lead to a productivity shortfall among women if assignment mistakes are important. In this case, even with free entry, a discriminatory differential might persist, although the authors expect that a market for more accurate productivity assessment would arise, reducing such a differential. Finally, although they acknowledge that less reliable predictions of a group's productivity combined with risk aversion by employers could produce a discriminatory differential, a perfectly elastic supply of risk-neutral entrepreneurs would be expected to erode discriminatory differentials based on this factor.

In the context of Aigner and Cain's model, suppose first that employer perceptions are

⁶⁰ See Manning (2003) for a systematic development of the "new monopsony" literature and its application to the gender wage gap, among other issues.

correct—is it appropriate to consider this a form of “discrimination” in any sense? From a normative perspective, the answer may be yes, to the extent that basing employment decisions on a characteristic like sex could be viewed as inequitable. Indeed, the practice of judging an individual on the basis of group characteristics, rather than upon his or her own merits, seems the very essence of stereotyping or discrimination. Such behavior is certainly not legal, for example, under anti-discrimination laws and regulations.

Now consider the situation where employer perceptions are incorrect. If statistical discrimination is accompanied by feedback effects, this may be a credible source of persistent discriminatory pay differences (Arrow 1973; Lundberg and Startz 1983). For example, if employers incorrectly expect that women are more likely to quit their jobs, they may respond by giving women less firm-specific training or assigning them to dead-end jobs. Faced with fewer incentives to remain on the job, women may respond by exhibiting the higher turnover that employers expect.

Further insight on the persistence of discrimination is suggested by what Bertrand, Chugh, and Mullainathan (2005) have termed implicit discrimination. This is based on findings from social psychologists that discriminatory attitudes and stereotyping may be unconscious (e.g., Fiske 1998)—suggesting that they would not be easily eliminated. Indeed, as gender discrimination has become less socially acceptable, it has likely become less overt and more subtle, as well as unconscious. Finally, as our discussion of statistical discrimination above suggests, discrimination can adversely affect women’s human-capital investments and labor-force attachment by lowering the market rewards to this behavior—i.e., through feedback effects (e.g., Weiss and Gronau 1981).

Models based on tastes for discrimination are consistent with employment segregation,

but do not necessarily predict it will occur. If wages are flexible, it is possible that discrimination will result in lower pay for women, but produce little or no segregation. However, if discriminatory tastes against women in traditionally male pursuits are both strong and prevalent, women may tend to be excluded from these areas. If such segregation does occur, it may or may not be associated with gender pay differentials. In the presence of sufficient employment opportunities in the female sector, equally qualified women may earn no less than men. The relationship between occupational segregation and earnings differentials in an otherwise competitive setting is clarified in Bergmann’s (1974) overcrowding model. If potentially equally qualified men and women are segregated by occupation, the wages in male and female jobs will be determined separately by the supply and demand for labor in each sector. Workers in male jobs will enjoy a relative wage advantage if the supply of labor is more abundant relative to demand for female than for male occupations.

3.9 *Evidence on Labor-Market Discrimination*

Empirical research on the extent of discrimination began with work that used regression methods and versions of the Oaxaca–Blinder decomposition discussed above to calculate unexplained female wage shortfalls (i.e., a wage gap not accounted for by gender differences in measured characteristics) as estimates of discrimination. For example, in section 2, we presented results on the unexplained gap for a number of years based on PSID data. We found an unexplained gender wage gap in each year, although the magnitude of the gap had declined over time. The finding of such an unexplained gap is fairly standard in the literature (for reviews, see, e.g., Altonji and Blank 1999; Stanley and Jarrell 1998; and Hersch 2007). Such an unexplained or residual

wage gap is often taken as an estimate of labor-market discrimination. However, as is well known, such estimates are suggestive, but not conclusive. Discrimination is overstated if men have higher levels of unmeasured productivity (or poorer working conditions). On the other hand, if women are better endowed with unmeasured characteristics on average, as may be the case with some variables, like people skills discussed below, regression methods would understate discrimination. The unexplained gap will also understate discrimination if some of the explanatory variables such as experience, occupation, industry, or union status have themselves been influenced by discrimination—either directly through the discriminatory actions of employers, coworkers, or customers, or indirectly through feedback effects. For these reasons, the literature has moved in the direction of research designs that use various strategies to overcome the problems of traditional statistical analyses. For example, some studies use samples of men and women such as lawyers or MBAs in which samples are more homogeneous and the controls for qualifications are much more detailed than in commonly used databases such as the CPS or the PSID. Presumably omitted-variable biases are less severe in such homogeneous samples.⁶¹ In addition, experimental research, such as audit studies, tests for discrimination under circumstances where, by construction, men and women have identical qualifications. Finally, we will briefly consider the small number of studies that have tested other predictions of Becker's (1971) discrimination model for gender to see whether or not the results are consistent with discrimination.

As just noted, studies applying the same statistical techniques as labor-market-wide studies, but focusing on more homogeneous groups of workers like lawyers and MBAs, may provide more convincing evidence of labor-market discrimination. In addition, given their data sources, they are able to control for detailed characteristics (e.g., grade point averages while in school), not available in broader studies. We have already considered such studies above and found that they also provide deeper insights into the supply-side sources of gender differentials, particularly the important role of hours worked and workforce interruptions in demanding professions. Here we focus on their implications for estimates of discrimination.

One qualification that must be made in interpreting the results of such studies for this purpose is that, when we focus on specific occupations, we introduce an additional element of selection, beyond selection into employment discussed above. The direction of such selection is unclear a priori, however it seems reasonable to us that, when we focus on high-level, traditionally male-oriented professions, women may be a positively selected group relative to men. If this is the case, then studies of such occupational subgroups will tend to understate the extent of discrimination.

The studies of lawyers (Noonan, Corcoran, and Courant 2005) and MBAs (Bertrand, Goldin, and Katz 2010) referenced earlier find that, even if one accounts for variables related to family status, like work-force interruption and fewer hours worked, unexplained gender earnings differences remain, which are potentially due to discrimination, although they are of course susceptible to other explanations. In the law study, men earned 11 percent more, controlling for an extensive list of worker qualifications and other factors, including grades while in law school, detailed work history data, and type and size of employer. In the MBA study, men

⁶¹While we believe the findings of such studies are instructive for studying discrimination, we do not mean to imply that the Bertrand, Goldin, and Katz (2010) study that we reference below was designed for this purpose.

earned nearly 7 percent more even accounting for work-force interruptions, fewer hours worked, and gender differences in business school GPAs and finance courses taken.⁶²

There has also been research analyzing gender differences in the most mathematically intensive academic fields (geoscience, engineering, economics, mathematics/computer science, and the physical sciences). The findings of this literature have recently been reviewed by Ceci et al. (2014). These results are mixed, with some studies finding little gender salary gap in these fields, once experience and productivity are controlled for, while others find that a male salary premium persists even after controlling for these factors.

Given the problems with traditional statistical studies, researchers have been interested in uncovering alternative sources of evidence on discrimination. As noted above, one approach that provides particularly persuasive evidence of discrimination is experiments, either naturally occurring labor market events that may be seen and analyzed as if they were experiments or actual experiments in which the researcher manipulates the treatment so as to test for discrimination, either in the laboratory or in the field. An advantage of experimental studies is that they offer estimates of the role of discrimination that are potentially less contaminated by unmeasured factors. A disadvantage is that they do not yield evidence

about discrimination (i.e., the presence or absence thereof) beyond the focal group of the study. This is a rapidly growing research approach and we illustrate the findings by a selection of studies that impart the flavor and show the breadth of these findings.

The first study we consider is Goldin and Rouse's (2000) investigation of the impact of the natural experiment created when symphony orchestras began to adopt "blind" auditions for musicians in which a screen is used to conceal the identity of the candidate. They found that the adoption of the screen substantially increased the probability that a woman would advance out of preliminary rounds and be the winner in the final round. The switch to blind auditions was found to explain one-quarter of the increase in percentage female in the top five symphony orchestras in the United States, from less than 5 percent of all musicians in 1970 to 25 percent in 1996.

A second study, Neumark (1996), was a field experiment or hiring audit. Male and female pseudo-job-seekers were given similar résumés and sent to apply for jobs waiting on tables at the same set of sixty-five Philadelphia restaurants. The results provided statistically significant evidence of discrimination against women in high-priced restaurants (where earnings of workers are generally higher). In these restaurants, a female applicant's probability of getting an interview was 40 percentage points lower than a male's and her probability of getting an offer was 50 percentage points lower.

A third experimental study, a field experiment by Moss-Racusin et al. (2012) sheds light on possible bias in academic science. Science faculty from the fields of biology, chemistry, and physics at six large, research-intensive universities (three public and three private) were asked to provide feedback on the application materials of (fictitious) senior undergraduate students who they were told ultimately intended to go to

⁶²This was calculated by evaluating the regression coefficient on the female dummy in table 3, specification 6; see Bertrand, Goldin, and Katz (2010), p. 239. This was the authors' preferred specification and the most highly specified regression that did not include a control for "reason for choosing job," which we felt inappropriate to include in a regression estimating the unexplained gap potentially due to discrimination. Specification 8 in table 3 which includes both reason for choosing job as well as variables reflecting job function and employer type estimates a smaller negative coefficient on gender than specification 6; in this specification the gender coefficient is larger than its standard error, but not statistically significant.

graduate school and had recently applied for a science laboratory manager position. Faculty participants rated the male applicants as significantly more competent and suitable for the position than the (identical) female applicants. Participants also set a starting salary for male applicants that was almost \$4,000 higher than the salary offered to female applicants, and offered more career mentoring to the male applicants. Female faculty were equally likely to exhibit bias against the female students as male faculty.

A fourth study, by Reuben, Sapienza, and Zingales (2014), implemented a laboratory experiment where some subjects (employers) hired other subjects (applicants) to perform an arithmetic task that, on average, men and women perform equally well. Their findings are consistent with negative stereotyping of women in math-related areas. They found that when employers had no information about applicants other than appearance (which makes sex clear), both male and female employers were twice as likely to hire a man as a woman. The discrimination (sex differential) was similar when applicants self-reported their expected performance, largely because men tended to overestimate future performance (women also slightly underestimated theirs)—and employers did not correct for this. Gender discrimination in hiring was reduced, but not eliminated (i.e., women were still under-hired), when employers were provided with full information about applicants' previous performance on the task. One very interesting feature of this study is that subjects (employers) were given the Implicit Association Test (IAT), a computer-based behavioral assessment designed to measure implicit or unconscious gender stereotyping or bias.⁶³ They found

that IAT scores were correlated with the initial bias in sex-related beliefs (when employers only knew the sex of the applicant) and with a bias in updating expectations when performance information was self-reported (i.e., not sufficiently correcting for male overestimation). While, as we have noted, discrimination against women persisted even when information about applicants' previous performance was available, the extent of such discrimination was not correlated with IAT score.

Fifth, we point to the results of the study by Correll, Benard, and Paik (2007), summarized above, that suggests that women, but not men, face discrimination based on their parental status. Using both laboratory and field experiments, they found that the participants had less favorable views regarding the résumés of equally qualified mothers relative to those of nonmothers, while fathers were not disadvantaged relative to nonfathers. Such a finding suggests discrimination against women based on parental status.

Finally, in a field experiment of university hiring of STEM-field faculty, Williams and Ceci (2015) confronted faculty respondents with materials for matched male and female applicants. In their main experiments, subjects received, for each of three shortlisted candidates, a search-committee chair's narrative summary of the candidate's credentials (with no curriculum vitae or specifics on publications, in order that the same narratives could cover multiple fields and institutions). Importantly, the narratives included the mean numerical rating given by faculty members of the hypothetical department based on research publications, job talk, reference letters, and interviews with individual faculty. Two of the applicants, one male and one female, received an identical highest rating of 9.5, with a third "foil" candidate receiving a lower but still excellent rating. The authors found that the respondents exhibited, on average, a preference for female

⁶³See Greenwald, McGhee, and Schwartz (1998). Subjects took the version measuring the association between sex and science-related abilities.

applicants in biology, psychology, and engineering, and gender neutrality in economics. One difference between this study and the previous ones we have reviewed that found evidence of discrimination is that, as emphasized by the authors, it focused on a select group of applicants, with PhDs, publications, etc., for tenure-track positions. Williams and Ceci speculate that bias is more likely to arise when applicants' records are more ambiguous. Even to the extent this the case, it is still of concern that there may be discrimination in opportunities like lab manager or in mathematics tasks that could provide the gateway to STEM fields. However, a concern that we have about the Williams and Ceci setup is that it equalizes the candidates with a specific numerical rating, which seems to us unrealistic in most hiring situations in academia. This, in effect, experimentally eliminates any discrimination that could take the form of a biased evaluation of qualifications; such a bias may arise in the more realistic situation in which qualifications are appraised by those making the hiring decision.

As we have seen, Becker (1971) and others (e.g., Arrow 1973) have pointed out that competitive forces should reduce or eliminate employer discrimination in the long run because the least discriminatory firms, which hire more lower-priced female labor, would have lower costs of production and should drive the more discriminatory firms out of business. For this reason, Becker suggested that discrimination would be more severe in firms or sectors that are shielded, to some extent, from competitive pressures. Consistent with this reasoning, Hellerstein, Neumark, and Troske (2002) found that, among plants with high levels of product market power (and hence the ability to discriminate), those employing relatively more women were more profitable. Similarly, Black and Strahan (2001) reported that, with the deregulation of the banking industry beginning in the mid-1970s, the gender

wage gap in banking declined. (Deregulation was viewed as increasing competitiveness within the industry.) And Black and Brainerd (2004) found that increasing vulnerability to international trade (i.e., increased competitive pressure) reduced apparent gender wage discrimination in concentrated industries, again as predicted by the Becker model. In a similar vein, Heyman, Svaleryd, and Vlachos's (2013) study based on Swedish worker-firm matched data found evidence that a firm takeover was associated with a reduction in the gender wage gap. They interpret takeovers as a manifestation of competitive pressure.

There is also some evidence consistent with statistical discrimination against women, based on employers' difficulty in distinguishing more from less career-oriented women. So, for example, Gayle and Golan (2012) propose a model in which workers have private information on their costs of participating in the labor force. They show that this asymmetric information is quantitatively important in explaining the gender pay gap. Similarly, Thomas (2015) proposes a model that shows that if there is asymmetric information about worker's future labor-force participation, the imposition of mandated maternity leave policies can increase the gender gap in promotion. This is because such policies make it more difficult for employers to distinguish between more and less family-oriented women, since they disproportionately raise post-birth employment by the former. Consistent with the model, she presents evidence that the Family and Medical Leave Act of 1993 increased women's probability of remaining employed but lowered their probability of promotion and that information asymmetry played a role in producing this result.

Finally, as we discussed above, greater monopsony power of employers over women than men workers provides a possible mechanism for the existence and persistence of

a discriminatory gap. This requires greater elasticity of labor supply to the firm for men than women. Evidence on gender differences in labor supply elasticities at the firm level for the United States is mixed. On the one hand, using data from labor-force surveys, Viscusi (1980), Blau and Kahn (1981), and Light and Ureta (1992) all find that women's quit rates are at least as wage responsive as men's; Manning (2003), too, finds no evidence of lower female separation elasticities in data for the United States and the United Kingdom. On the other hand, Ransom and Oaxaca (2010) report some evidence consistent with the monopsony model as an explanation for gender wage differentials at a chain of grocery stores, as do Ransom and Sims (2010) for schoolteachers in Missouri. Moreover, using economy-wide linked employer–employee data, Webber (2016) finds evidence of lower labor supply elasticities for women. Internationally, Barth and Dale-Olsen (2009) and Hirsch, Schank, and Schnabel (2010) find evidence using matched employer–employee data that men's turnover is more wage elastic than women's in Norway and Germany, respectively.

4. *Norms, Psychological Attributes, and Noncognitive Skills*

Labor economists have become increasingly interested in the effect of noncognitive or “soft” skills—including psychological attributes, preferences, and personality—on labor-market outcomes and behavior (Heckman and Kautz 2012). This trend has been driven by a number of factors, but perhaps most important is that, although considerable evidence supports the importance of traditional economic variables in explaining labor-market behavior and outcomes, there is almost always a sizeable component of any behavior or outcome that is not explained by these variables, leading researchers to reach out beyond the confines of traditional

economic models for explanations. With respect to gender, intriguing findings suggest a number of psychological attributes that differ between women and men. For example, women have been found to be less willing than men to negotiate and compete and to be more risk averse (for reviews, see Bertrand 2011; Croson and Gneezy 2009). Gender differences in such characteristics have been proposed as an explanation for women's lower wages and lower representation in high-level jobs.

In considering research on gender differences in psychological attributes or noncognitive skills, some cautions must be borne in mind. First, even if men and women do differ on average, it is not possible at this point to know the role of nature versus nurture. We do not attempt to address this fundamental issue here, however, we consider it important that research suggests social factors play a part and have highlighted such findings. Moreover, whatever their origin (nature or nurture), gender differences may still be malleable—so, for example, women may be encouraged to negotiate and given tips on improving their negotiating skills. Second, gender differences in noncognitive skills do not necessarily all favor men. For example, there is some evidence that women have better interpersonal or “people” skills than men (Borghans, ter Weel, and Weinberg 2014). Another area where differences favor women is that, as we saw in our discussion of education, the greater behavioral problems of boys appear to contribute to their lower rate of college going. Also, it should be noted that a particular psychological attribute—like men's willingness to compete or lower risk aversion—may be an advantage in some settings but a disadvantage in others.⁶⁴

⁶⁴For example, Eckel and Füllbrunn (2015) provide experimental evidence from a financial-asset market that female traders are less likely to produce speculative price bubbles.

In addition, as we shall see below, the same trait may be rewarded differently for men and women, or indeed even be penalized for women when it is rewarded for men.

Finally, much of the evidence on gender differences in psychological attributes has been gleaned from laboratory experiments, and there are reasonable concerns about generalizing the results of such experiments outside the lab. And, while confirmation of lab results in the field is suggestive, even in this case, there may be questions about how well the experiment represents what would occur in a real-world setting (Harrison and List 2004, and Pager 2007). Moreover, importantly, findings from laboratory or field experiments generally cannot be easily translated into accounting for a particular portion of the gender wage gap. Studies based on survey questions in data sets that include information on respondents' attitudes and preferences, along with other characteristics and labor-market outcomes, are more promising in this regard but elicit their own sets of concerns about endogeneity and precisely what it is (i.e., what particular trait or traits) one is really measuring.

Capitalizing on two excellent recent reviews (Bertrand 2011; Croson and Gneezy 2009), we discuss this work selectively. And, in light of the above cautions, we particularly focus on research that contributes to our understanding of the applicability and broader significance of the findings from lab experiments, as well as on research that sheds light on the role of social factors in producing the observed gender differences. To particularly address the gap in our knowledge of the quantitative importance of noncognitive factors, we begin by summarizing survey-based evidence where authors have provided sufficient information for us to compute the contribution of these factors to explaining the gender wage gap. We acknowledge that such studies, still relatively scarce, do not comprise the "last word" on the importance of

such factors and discuss the issues such studies confront below. However, we believe it is nonetheless useful to get some indication of the potential impact of such factors.

4.1 *Survey-Based Evidence on the Impact of Psychological Attributes on the Gender Pay Gap*

As our decompositions of the gender pay gap showed, there is a persistent unexplained pay gap; moreover, gender differences in occupations and industries also contribute importantly to the gender pay gap. While discrimination could explain such results, a recent series of papers (see table 7) based on survey evidence attempts to test whether gender differences in personality traits, or noncognitive skills, could provide an alternative explanation for both types of outcomes. Men are found to place a higher value on money, to have higher self-esteem, to be less risk averse, more competitive, self-confident and disagreeable, and to believe that they control their own fate (an internal, as opposed to external, locus of control) to a greater extent than women (see the studies in table 7). Psychological attributes such as self-confidence may contribute to a worker's productivity, and thus act like human-capital variables in a wage regression (Mueller and Plug 2006). Alternatively, a trait such as placing a high value on money may signal a willingness to accept a difficult working environment in return for higher pay (Fortin 2008). In this latter case, psychological factors stand in for compensating wage differentials. Under either interpretation (human capital or compensating differentials), in equilibrium, we expect such traits to be related to wages, and, if men and women differ in psychological attributes, then they will contribute to explaining the gender pay gap.

Some of the studies of the impact of psychological factors on the gender pay gap use information on respondents' answers to attitudinal questions to construct indexes

TABLE 7
SELECTED STUDIES ASSESSING THE ROLE OF PSYCHOLOGICAL TRAITS IN ACCOUNTING
FOR THE GENDER PAY GAP

Study	Sample	Traits examined	Raw gender wage gap (logs)	Effect of gender differences in psych. factors on gender pay gap (logs)	Percentage of gender pay gap due to gender differences in psych. traits
Mueller and Plug (2006)	Wisconsin 1957 HS grads, 1992 data	“Big 5”: extroversion; agreeableness; conscientiousness; neuroticism; openness	0.587	0.043–0.095	7.3–16.2
Semykina and Linz (2007)	Russia 2000–2003	Locus of control; challenge/affiliation	0.311–0.397	0.012–0.026	3.0–8.4
Fortin (2008)	US NELS 1972 and 1988 cohorts: 1979, 1986, and 2000	Self-esteem; locus of control; money/work importance; people/family importance	0.181–0.237	0.008–0.032	4.4–14.0
Manning and Swaffield (2008)	British cohort study: 1970 birth cohort, 2000 data	Risk; competitiveness; self-esteem; other-regarding; career orientation; locus of control	0.203	0.005–0.056	2.5–27.6
Nyhus and Pons (2012)	Netherlands 2005	Locus of control; time preference	0.246	0.028–0.035	11.5–14.1
Reuben, Sapienza, and Zingales (2015)	2008 Univ. of Chicago Booth MBA cohort	Taste for competition	0.119	0.010–0.012	8.4–10.1
Cattan (2014)	NLSY 1979, 4 points in life cycle	Self-confidence	0.18–0.30	0.010–0.036	5.4–14.5

Notes: Manning and Swaffield (2008) entry based on their model with all psychological variables included (table 9, line 8). Cattan (2014) entry based on marginal effect of self-confidence (table 9, panel C).

of psychological traits, which then become explanatory variables in wage regressions. One can then assess the quantitative importance of such controls in explaining the level or change in the gender pay gap. In addition, one study measured respondents’ tastes for competition at a time before labor-market entry and then estimated the effect

of gender differences in these tastes on the gender pay gap observed after they entered the labor market (Reuben, Sapienza, and Zingales 2015).

Researchers in this area have had to confront several difficult empirical issues in implementing their tests. First, if the psychological factors are measured at the same time

wages are measured, then one cannot rule out the possibility of reverse causality. For this reason, some authors use data in which psychological attributes were measured before labor-market outcomes (e.g., Fortin 2008; Reuben, Sapienza, and Zingales 2015; and Cattan 2014), reducing the possibility of reverse causality. In other cases, authors appeal to psychological research suggesting that basic personality traits do not change much over the life cycle (Mueller and Plug 2006); if so, then labor-market developments would not affect personality traits. We would point out, however, that anticipated discrimination can affect one's attitudes even if they are measured before one enters the labor market. Second, combining a battery of questions into a usable index presents measurement issues that have been the subject of much psychometric research; attention is paid in the economics literature to the reliability of such measures (Mueller and Plug 2006; Cattan 2014; Nyhus and Pons 2012). Third, as suggested above, psychological traits can affect wages directly, controlling for measured factors such as human capital, industry, and occupation, as well as indirectly through their influence on schooling, experience, and occupation and industry (e.g., risk takers are likely to be more attracted to the financial sector). Some of the economic research in this area attempts to separate the direct and indirect effects of psychological factors. This is usually done in one of two ways. One may estimate reduced-form wage regressions, excluding the intermediate factors and including the psychological factors; one can then compare the impact of psychological factors, controlling and not controlling for covariates that they are believed to affect. Alternatively, one can estimate a structural model where the intermediate factors (schooling, occupation, etc.) and wages are endogenous variables (Cattan 2014).

A fourth issue in estimating the impact of psychological factors on wages concerns

the possible heterogeneity of effects. For example, self-confidence may be rewarded differently among executives than clerical workers (Cattan 2014). Importantly from our point of view is, as mentioned earlier, that the labor-market may reward the same trait differently for men than for women (Manning and Swaffield 2008). For example, ambitiousness may be seen as a positive trait for men but a negative one for women. This discussion raises the issue of how one should assess gender differences in psychological factors. Some studies run a pooled regression to estimate the wage effects of psychological factors, while others present estimates based on male and then female coefficients.

Table 7 summarizes the results of several studies that examine the importance of psychological factors or noncognitive skills on the gender pay gap where, if needed, we estimated this impact based on data presented in the paper. The notable finding from this table is that, in each case, gender differences in psychological factors account for a small to moderate portion of the gender pay gap. The proportion of the total gender pay gap accounted for by gender differences in psychological factors ranges from 2.5 percent to 28 percent, with all of the studies except for Manning and Swaffield (2008) finding that these traits account for 16 percent or less of the gender pay gap. Recall from table 4 that in 2010, occupation and industry differences accounted for about 51 percent of the gender pay gap. Of course, as noted, some of these occupational and industry effects may have been due to psychological factors, and below, we discuss some research that sheds light on this possibility.

A related question these analyses can potentially address is whether our estimates of the unexplained gap such as those shown in table 4 would be smaller if one had data on psychological factors. To the extent that some of the measured factors (like occupation or

education) are, in part, the outcome of non-cognitive skills, or at least correlated with them, controls for these measurable factors may implicitly adjust for much of the effect of noncognitive factors. And there is also the related question of whether any such reduction would be large in magnitude. Of the studies in table 7, Semykina and Linz's (2007) analysis of Russia, Nyhus, and Pons's (2012) study of the Netherlands, and Reuben, Sapienza, and Zingales' (2015) study of the University of Chicago Booth MBA cohort of 2008 shed light on this question. In Nyhus and Pons's (2012) paper, the authors did not control for occupation or industrial sector, but did include a control for working in the public sector. They found that adding psychological traits to the equation reduced the unexplained gender pay gap from 0.185 to 0.154 log points, a reduction of 0.031 log points, or 17 percent of the unexplained gap. Semykina and Linz (2007) controlled for sector and whether the respondent was a manager. Adding psychological traits led to a reduction in the unexplained pay gap from 0.196 to 0.185 log points, or about 6 percent of the unexplained gap. Reuben, Sapienza, and Zingales (2015) measured MBA students' tastes for competition while they were students using a similar instrument as in Niederle and Vesterlund's (2007) study of gender differences in competitiveness (discussed below). The authors then collected data on respondents' total earnings in their first year after leaving the MBA program and analyzed the impact of competitiveness on the gender pay gap. Using a pooled regression of log earnings on covariates, the data showed a statistically significant female wage shortfall of 0.097 log points when the authors controlled for a measure of risk aversion, several psychological traits such as trust and reciprocity, age, race, marital status, GMAT test scores, performance in business school, and pre-MBA work experience and sector, but not competitiveness. When the authors'

measure of competitiveness was added to the model, the female pay shortfall was reduced to 0.087 log points, or by about 10 percent. Note that the raw gender pay gap was 0.119 log points, so controlling for a long list of psychological factors (other than competitiveness), ability measures, demographic information, and prior work experience only reduced the gap to 0.097 log points.⁶⁵ Based on the results of these three studies, psychological factors do not appear to account for a large share of the unexplained pay gap.

As noted, several studies examined both the direct and indirect effects of psychological traits on the gender pay gap (Nyhus and Pons 2012, Cattani 2014, Fortin 2008, Mueller and Plug 2006, Semykina and Linz 2007). With the exception of Mueller and Plug's (2006) study of the 1957 high school senior class in Wisconsin as of 1992, these papers found that the indirect effects of psychological factors were small—most of the modest effects we see in table 7 occur controlling for covariates such as schooling, industry, and occupation. In Mueller and Plug's (2006) case, adding psychological factors alone explained 16 percent of the gender pay gap; however, when the authors controlled for human capital, region, marital status, and number of children, psychological factors accounted for 10 percent of the raw pay gap. And when the authors further controlled for industry and occupation, these traits explained only 7 percent of the gender pay gap. Thus, this paper suggests some important indirect effects of psychological factors on schooling, industry, and occupation. Notably, this study had the most

⁶⁵Reuben, Sapienza, and Zingales (2015) were only able to observe first-year earnings, and it is likely that in the long run the gender pay gap would increase, as in Bertrand, Goldin, and Katz's (2010) study of an earlier cohort of Chicago Booth MBAs. Whether competitiveness differences would help account for such an increase in the gender pay gap within a cohort is an open question.

extensive industry and occupation controls of those in table 7.

While Mueller and Plug (2006) did not assess the contribution of adding psychological factors to the unexplained pay gap, we note that when they added industry and occupation to a model that controlled for human capital, region, marital status, children, and psychological factors, the unexplained gap fell from 0.280 to 0.184 log points, a reduction of 0.096 log points, or about 34 percent of the unexplained gap. This reduction is similar to the decrease in the unexplained gap we found for the Full versus the Human Capital Specifications in section 2 (table 4), where we of course did not have psychological variables available.⁶⁶ Hence, the Mueller and Plug (2006) results provide further support for the importance of industry and occupation even, in this case, controlling for psychological factors.

Of the studies in table 7, Fortin's (2008) is noteworthy because it assesses the importance of psychological factors both at a point in time and in accounting for the reduction in the gender pay gap since the 1970s. Specifically, as noted earlier, she analyzed two cohorts of students (the National Longitudinal Study of the High School Class of 1972 and the National Education Longitudinal Study of 1988/94) to examine the effect of psychological factors measured while in school. For workers in their mid-twenties, she found that a reduction in gender differences in psychological factors accounted for about 10 percent of the intercohort reduction in the gender pay gap between 1979 and 2000 (from 0.237 to 0.181 log points). She also found that psychological traits were somewhat more important for the 1972 cohort when they reached their

early thirties, explaining up to 14 percent of the gender pay gap in 1986, compared to 6 percent in 1979 when they were in their mid-twenties. The within-cohort comparison suggests that some of the gender difference in career advancement may be related to psychological traits.

Finally, we note that although most of the studies in table 7 used a pooled regression to assess the effects of gender differences in psychological traits, Manning and Swaffield (2008) used separate regressions and then male and then female regression coefficients. The authors found that, using male coefficients, gender differences in psychological factors accounted for 28 percent of the gender pay gap among thirty year olds in 2000, a seemingly important effect. However, when they used female coefficients, psychological factors account for only 2.5 percent of the gender pay gap. This discrepancy in findings suggests generally lower rewards to psychological traits for women than men.⁶⁷

As noted earlier, not all gender differences in noncognitive factors favor men in their relationship to wages. For example, Mueller and Plug (2006) found that women are on average more conscientious than men, a difference also suggested in Goldin, Katz, and

⁶⁶In table 4, adding industry, occupation, and union status to the human-capital model led to reduction in the unexplained gap of 0.109 log points in both 1980 and 2010, or 32–55 percent of the unexplained gap.

⁶⁷In a recent study of 624 graduating seniors from the classes of 2011, 2012, and 2013 at the University of Santa Clara and Haverford College, Kamas and Preston (2015) study the effect on the gender gap in pay of personality traits measured while the students were seniors using experiments similar to those of Niederle and Vesterlund (2007). Men were found to be more competitive and confident and less risk averse than women. The authors then collected information on the students for the 2012–14 period, a very early stage of their career. Controlling for performance on a math task and years since graduation, competitiveness did not appear to explain the gender pay gap in this sample. However, the subgroup of women who were confident and chose to compete earned as much money as men did and much more than other women. While this result was based on a small number of women (9.9 percent of the original 344 female participants—i.e., thirty-four students—were judged as confident and chose to compete), the result does suggest that psychological attributes can interact, increasing their importance.

Kuziemko's (2006) analysis of why female education levels have overtaken those of males. Moreover, Borghans, ter Weel, and Weinberg (2014) present evidence that there is a female advantage in "people-skills" and find evidence of a people skills premium in wages. Further, Borghans, ter Weel, and Weinberg's (2014) results indicate a growing importance of interpersonal interactions (in part due to increased computer use) in affecting wages that can help explain rising female relative wages, although they do not assess the quantitative importance of people skills in accounting for the reduction in the gender pay gap.

The issue we raised earlier, of gender differences in returns to psychological attributes is highlighted by Mueller and Plug's (2006) study of the reward to the "big five" personality traits—openness to experience, conscientiousness, extroversion, agreeableness, and neuroticism.⁶⁸ One of the most consistent gender differences in personality traits has been found for agreeableness, with women being found to be more agreeable than men (Bertrand 2011). Agreeableness refers to being more trusting, straightforward, altruistic (warm), compliant, modest, and sympathetic. Perhaps not surprisingly given labor market realities, Mueller and Plug (2006) find, in a regression context, that men earned a premium for being *disagreeable*. However, this attribute was not found to be related to women's wages. Thus, the gender difference in agreeableness contributed to the gender earnings gap both because men were considerably more disagreeable than women, but also because only men were rewarded for this trait (Mueller and Plug 2006).⁶⁹ These findings hint at a

double bind for women. As in the case of negotiation (discussed below), women face potential penalties for not engaging in this behavior but, if they do, may elicit negative or less positive responses than men. Also striking is Manning and Swaffield's (2008) finding noted above that psychological attributes accounted for a much larger share of the gender wage gap using male than female coefficients.

While findings such as those in table 7 are informative in elucidating some of the possible omitted factors that lie behind gender differences in wages as well as the unexplained gap in traditional wage regressions, in general, the results suggest that these factors do not account for a large portion of either the raw or unexplained gender gap. Moreover, the coefficients on noncognitive skills in a wage equation cannot necessarily be given a causal interpretation. Both wages and attitudes, for example, may be determined by the same exogenous factor(s). And, as in the case of the traditional productivity proxies discussed above, there may be important feedback effects from differential treatment in the labor market (and the anticipation of such differential treatment) to noncognitive traits. So, for example, gender differences in the importance placed on money may influence wages through negotiating behavior or effort, but the source of women's lower emphasis on money could be, at least in part, anticipation of lower income due to labor-market discrimination. Finally, in analyses based on self-reported survey data, there is likely to be some ambiguity as to precisely what trait one is measuring. For these reasons, just as research on labor-market discrimination

⁶⁸For a definition of each trait, see Mueller and Plug (2006).

⁶⁹See also Judge, Livingston, and Hurst (2012). One must, of course, be cautious in basing conclusions about the contribution of gender differences in individual regression coefficients (on either categorical or continuous

variables) to the gender pay gap in isolation from the other coefficients in the model (Oaxaca and Ransom 1999). Additional results were that men were also rewarded for emotional stability and openness to experience, while women were rewarded for conscientiousness and openness to experience.

has tended to move towards experimental evidence, at least in confirming findings based on statistical analyses of survey data, there has been a parallel development in studying the impact of psychological characteristics. We move to a consideration primarily of experimental evidence in the next subsections.

4.2 Negotiation

Researchers have found that men's and women's average propensities to negotiate differ, with women being much less likely to do so (Babcock and Laschever 2003; see also reviews in Bertrand 2011; and Croson and Gneezy 2009). Women's lower propensity to negotiate over salaries, raises, or promotions, could reduce their pay relative to men's. The observed gender difference could reflect social factors, including women being socialized to feel that they are being pushy or overbearing (unfeminine) if they negotiate—i.e., pursuing their own goals in the face of conflict with others (Babcock and Laschever 2003). Consistent with the notion that the female gender role is seen as incongruent with negotiating, a meta-analysis by Mazei et al. (2015) found that gender differences in negotiating outcomes were reduced when negotiators negotiated on behalf of *another individual*. Moreover, women may have learned that their negotiating can trigger a negative response from others. For example, in a series of laboratory experiments, Bowles, Babcock, and Lai (2007) asked study participants to evaluate managers based on a transcript or a video of a job-placement interview. They found that participants were disinclined to work with female managers who negotiated for higher compensation but negotiating had little effect on their evaluation of male managers.

Results from a field experiment by Leibbrandt and List (2015) confirm the gender differences in negotiating behavior obtained in the lab studies, but suggest

that such differences may be sensitive to the cues given. In examining the response of applicants to job advertisements, they found that men were more likely to negotiate than women when there was no explicit statement that wages were negotiable. However, when it was explicitly stated that wages were negotiable, the gender difference disappeared and even reversed. This suggests that, for women, negotiating is less acceptable behavior but the gender difference can be overcome if it is signaled to be appropriate.

While it may be possible to enhance women's negotiating skills and reduce the gender difference in negotiating, it is also important to realize that there are limitations to what may be achieved by doing so. Negotiation is a form of bargaining and, as such, the outcome is influenced by the alternatives available to the individual. To the extent that women face discrimination in the labor market that lowers their wages relative to men's, their expected outcome from the bargaining process will be smaller than for their male counterparts. Moreover, if, as we have seen may be the case, women who negotiate elicit negative responses compared to men, the gender difference in the prospective result from negotiating is further widened.

4.3 Competition

There is evidence from laboratory experiments that, on average, men are more competitively inclined than women (Bertrand 2011, Croson and Gneezy 2009). In Niederle and Vesterlund's (2007) influential study, for example, subjects were given a task (adding up sets of two-digit numbers) for which there was no average gender difference in performance. Subjects received feedback on their own performance, but not on their performance relative to others. When subsequently given a choice between a non-competitive compensation scheme (a piece rate—pay according to the number of problems correctly solved) and a competitive

compensation scheme (a tournament where only the highest scorer out of a group of 4 was compensated), men overwhelmingly (73 percent) selected the tournament while only a minority (35 percent) of the women did so. Low-performing men chose to compete more than high-performing women. Interestingly, while high-scoring women lost out financially by shying away from competition, low-performing men competed too much from a payoff-maximizing perspective. The gender difference in attitudes towards competition could be a disadvantage for women in the labor market, potentially lowering their relative pay and leading them to avoid certain occupations or business settings, although these findings also suggest that men may sometimes compete more than is optimal.

An interesting recent study suggests that differences in attitudes toward competition observed in the lab do translate into differences in career choices. Buser, Niederle, and Oosterbeek (2014) collected data on the competitiveness of high school students in the Netherlands through in-class experiments and then tracked their subsequent education choices across four study profiles at age fifteen. While boys and girls had very similar levels of academic ability, boys were substantially more likely than girls to choose the more prestigious profiles. The authors found that up to 23 percent of the gender difference in profile choice could be attributed to gender differences in competitiveness, as assessed by the in-class experiments.

Some evidence that women shy away from competitive environments is also indicated by a recent large-scale field experiment. Flory, Leibbrandt, and List (2015) randomly assigned job-seekers into viewing online job advertisements with different compensation schemes. Consistent with the results of lab experiments, the more heavily the compensation package tilted towards rewarding the individual's performance relative to a coworker's performance, the more the

applicant pool shifted to being more male dominated. However, there was little or no gender difference when compensation was *only slightly* (rather than heavily) based on performance relative to a coworker's or when the job was to be compensated based on team (rather than individual) relative performance. Moreover, the sex-type of the job mattered. The occupation under study was administrative assistant. A male-oriented ad described tasks focused around sports. The "female" ad was similar in other respects but the focus was general—the authors deemed this a female-type job because, nationally, administrative assistant is a predominantly female occupation (79 percent female in 2001). Strikingly, there were no gender differences in propensity to apply under any of the compensation schemes for the female treatment—the gender differences described above were only obtained for the male-type job. While it would have been interesting to see results for a completely neutral occupation, these findings suggest a strong interaction between the gender role or identity of the task and men's and women's propensity to compete. Moreover, while individual responses to compensation schemes were not correlated with readily observable characteristics like education and experience, a blind analysis of the quality of interview questionnaire responses suggested that the highly competitive regime disproportionately attracted low-ability males. As the authors note, this is consistent with Niederle and Vesterlund's (2007) finding that "males compete too much" in terms of maximizing monetary payoffs.

While much of this evidence does indeed suggest that men are, on average, more attracted to competitive environments than women, what are the effects of this difference on the gender pay gap? Using the British Workplace Employment Relations Survey for 1998 and 2004, Manning and Saidi (2010) find, as expected, that women

were indeed less likely to have jobs with pay for performance than men. However, this gender difference accounted for only a very small portion of the British pay gap overall and among managerial workers. Thus, the impact of gender differences in competitiveness on the gender pay gap based on this evidence appears to be very limited.

Finally, also of interest is a study that compared the results of lab experiments testing for gender differences in preferences for competition in two different cultures (Gneezy, Leonard, and List 2009). The findings of this study strongly suggest that men's and women's attitudes toward competition are influenced by broader social factors. The authors found that, consistent with the results in developed countries, men opted to compete at roughly twice the rate of women in a traditional patriarchal society (the Maasai of Tanzania). However, in a matrilineal/matrilocal society where inheritance and residence are determined by the female lineage (the Khasi of India), women chose the competitive environment more often than men.

There is also some evidence that competition increases the *relative* performance of men compared to women when both participate in the activity, although the evidence on this is more mixed (Croson and Gneezy 2009). On the one hand, Gneezy, Niederle, and Rustichini (2003), for example, found no significant difference in performance by gender under piece rates for a maze-solving task on the computer. However, when pay was competitive, men's performance was increased significantly and women's stayed the same, yielding a gender difference. On the other hand, Niederle and Vesterlund's (2007) study, discussed above, found that the performance of both men and women improved similarly under the tournament and there was still no gender difference in performance.⁷⁰

⁷⁰ See also the review of recent studies in Örs, Palomino, and Peyrache (2013).

Some particularly compelling evidence on the impact of competition on performance is presented in a recent study by Örs, Palomino, and Peyrache (2013). The authors examined gender differences in performance for the same group of subjects on real-world academic achievement examinations that differed in their levels of competition. They found that men performed better than women on the highly competitive entrance exam for admission to the master of science in management at the École des Hautes Études Commerciales (HEC) in Paris even though, for the same cohort, women performed significantly better than men on the national baccalauréat exam two years prior, which the authors characterize as "noncompetitive." Moreover, among the subset admitted to HEC, women outperformed the same males in first-year grades in nonmathematically oriented classes (where grades are based on relative performance only in a very loose sense).

4.4 Risk Aversion

Based on the laboratory experiments they review, Croson and Gneezy (2009) report that women are, on average, more risk averse than men.⁷¹ All else equal, occupations with more variable earnings are expected to pay a compensating wage differential to induce workers to accept the higher levels of risk. To the extent women are more likely to avoid such jobs, women's greater risk aversion could lower their earnings relative to men (Bertrand 2011). Risk aversion could also plausibly affect job performance in particular occupations, such as money managers.

Interestingly, Croson and Gneezy (2009) report that, while women are found to be

⁷¹ Manning and Swaffield's (2008) survey evidence also indicates that women are more risk averse than men. A review and analysis by Nelson (2015), however, finds the results to be more mixed, with some studies reporting higher female average risk taking and many cases in which the male advantage lacked statistical significance.

more risk averse among persons drawn from the general population or among university students, studies that focus on managers and professionals have found little or no evidence of gender differences in financial risk preferences. For example, one study of mutual fund managers found that funds managed by men and women did not differ in risk or performance. Similarly, male and female managers and entrepreneurs displayed similar risk propensities. It is not possible to know whether such findings are due to the type of selection we have just discussed (with more risk-taking individuals of both sexes choosing to enter or remain in particular fields) or learning (people who initially differ in their risk propensities may learn from their professional environment). In either case, however, these findings suggest that while women's relative aversion to risk may lower their relative earnings due to occupational sorting, this factor probably does not help to explain *within* occupational earnings differences (or at least not within the occupations studied). Further, to the extent these findings are due to learning, it suggests that these preferences can be shaped by environment.

4.5 Norms and Gender Identity

Recent work by Bertrand, Kamenica, and Pan (2015) points to possible far-reaching effects of adherence to traditional gender roles on the relative outcomes of men and women. They draw on Akerlof and Kranton's (2010) development of the concept and implications of identity, defined as a sense of belonging to a social category, combined with a view about how people who belong to that category should behave. Departures from these norms are perceived as generating costs and hence people seek to avoid them.

Bertrand, Kamenica, and Pan (2015) probe the consequences of the view that a wife should not earn more than her husband

and find it to impact a number of outcomes. For example, they find that, within marriage markets, as the probability that a randomly chosen woman would outearn a randomly chosen man increases, marriage rates decline. Similarly, couples in which the wife outearns her husband have lower rates of marital satisfaction and are more likely to divorce. Of particular relevance to the issues under consideration here, they find that, in couples in which the wife's potential income is likely to exceed her husband's (based on predicted income), the wife is less likely to be in the labor force and, if she does work, her income is lower than predicted. Such a selection pattern would lower the observed relative wages of employed married women. Also of interest, given the inverse relationship between housework and wages, they find, based on time-use surveys, that the gender gap in nonmarket work is *increased* if the wife earns more than her husband. This finding is particularly surprising given that Beckerian notions of comparative advantage would lead us to expect the opposite (Becker 1991),⁷² assuming that relatively higher-earning women do not generally have even higher relative values of nonmarket time. A possible interpretation of this pattern is that these high-earning wives are attempting to compensate for violating the gender norm of earning less than their husbands. As we have seen, greater housework time is expected to negatively affect wages.

The findings from Bertrand, Kamenica, and Pan (2015) suggest that additional explorations of gender norms and identity by economists would be fruitful in understanding the gender wage gap and other gender differences in outcomes. However, while the findings in this paper are striking, it is possible that the strength of this norm may

⁷²That is, the division of labor in the family should be determined by the comparative advantage of each spouse in market versus nonmarket activity.

be diminishing. First, the share of married-couple families in which the wife outearns her husband has been growing steadily, as married women's labor-force participation and education levels have increased and the male-female wage gap has declined. For example, this share increased by over 80 percent between 1981 and 2015, among families in which both members of the couple had earnings (from 15.9 to 29.3 percent).⁷³ Moreover, there is evidence that in the bulk (60 percent) of couples in which the wife outearns her husband, this disparity is relatively permanent—that is, it persists over a three-year period (Winkler, McBride, and Andrews 2005). Second, attitudes seem to be becoming more permissive along this dimension. A 2013 attitude survey found that only 28 percent of adults agreed that “It’s generally better for a marriage if the husband earns more than his wife” compared to 40 percent in 1997. College graduates had especially permissive views, with only 18 percent supporting this view (Wang, Parker, and Taylor 2013). While an adherence to traditional gender norms need not be conscious and overt in order to influence behavior, it is nonetheless of interest that such views, as expressed, are becoming more permissive. Moreover, this has been occurring at the same time the share of couples where the wife outearns her husband has been increasing. This points to the likelihood that couples are acting on their more permissive views and also to the possibility that behavior (the increasing incidence of such families) influences norms and attitudes, as well as the reverse.

⁷³US Census Bureau, Historical Income Tables-Families, “Table F-22. Married-Couple Families with Wives’ Earnings Greater Than Husbands’ Earnings: 1981 to 2015,” <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-income-families.html>, accessed August 8, 2017. Similarly, Wang, Parker, and Taylor (2013) report that, among married couples with children under age eighteen, the share of families in which the mother earned more than the father increased from 3.8 percent in 1960 to 22.5 percent in 2011.

5. *Evidence on the Impact of Policy*

Women's relative skills and the degree of discrimination they face can be affected by equal employment opportunity laws and regulations, as well as by government policies directed at the difficulties of combining work and family. In this section, we briefly consider what is known about these types of policies and their impacts, focusing primarily on the United States.

The United States was a world leader in implementing equal employment opportunity policy as the first economically advanced nation to pass and implement antidiscrimination laws and regulations (Blau and Kahn 1996b). The centerpiece of the government's antidiscrimination activities is Title VII of the Civil Rights Act of 1964, which broadly bans discrimination by sex (as well as by race, religion, and national origin) in virtually all aspects of the employment relationship, including hiring and firing, training, promotion, wages, and fringe benefits and covers all businesses employing fifteen or more workers. Title IX, an important amendment to the Civil Rights Act passed in 1972, prohibits sex discrimination in most educational institutions. In addition, the Equal Pay Act of 1963 mandates equal pay for men and women who do substantially equal work in the same establishment. Further, under some circumstances, affirmative action, or “pro-active steps ... to erase differences between women and men, minorities and nonminorities, etc.” (Holzer and Neumark 2000a, p. 484), is also required, primarily for government contractors under an executive order promulgated in 1965 and amended to include women in 1967. Affirmative action has also been voluntarily adopted by many employers.

In thinking about the impact of the government's antidiscrimination enforcement effort, one question that arises is whether the time path of the increase in women's relative earnings (see figure 1) appears compatible

with an effect of these laws and regulations. This question arises because we see no indication of a notable improvement in women's relative earnings in the immediate post-1964 period that might be attributable to the effects of the government's antidiscrimination effort; the gender pay ratio remained basically flat through the late 1970s or early 1980s, after which it began to increase. In contrast, blacks experienced considerable increases in their relative earnings in the decade following the passage of the civil rights laws that many scholars attribute, at least in part, to the impact of these laws (e.g., Donohue and Heckman 1991).

Nonetheless, there is some evidence from a variety of detailed, micro-level studies of a positive effect of government equal employment opportunity policies on women's earnings and occupations. Beller (1979, 1982) used enforcement activity as an indicator of the strength of government sanctions under Title VII and found evidence of improvements over the 1967–74 period in women's relative earnings (Beller 1979) and their probability of being employed in a predominantly male occupation (Beller 1982). Carrington, McCue, and Pierce (2000) took firm size as an indicator of coverage and enforcement and found that, over the 1963–87 period, the relative employment of women and blacks by larger employers increased. Kurtulus (2012) found that the share of women and minorities in high-paying skilled occupations grew more over the 1973–2003 period at federal contractors than other employers. Moreover, she found that these gains took place primarily prior to or in the early years of the Reagan administration and after 1991; a pattern that matches what is known about climate of enforcement of affirmative action and anti-discrimination laws more broadly, including a winding down of the enforcement effort during the Reagan years. Kurtulus's (2012) findings are consistent with an earlier study by Leonard (1990), which found

faster employment growth for black and white females at contractor establishments over the 1974–80 period. Finally, Holzer and Neumark (1999 and 2000b) measured affirmative action by employer self-reports (this could include both mandated and voluntary programs) and found cross-sectional evidence that affirmative action reallocates women and minorities to the affirmative action sector by increasing both their applications and employment. This is likely to raise their relative wages, since the authors find that such firms are higher paying and, in addition, have smaller race and sex differences in wages (see also Holzer and Neumark 2000a for a review).

We find these results of female gains due to equal employment policy not implausible, despite the time pattern of aggregate female relative earnings gains, for at least two reasons. First, we note that some improvements in women's status do indeed date to the 1970s—chiefly, the growth in women's enrollments in professional schools and the beginning of a substantial decline in occupational segregation. The educational shifts may reflect, at least in part, the impact of Title IX, but also a response to perceived increases in labor-market opportunities that improved the incentives for women to train for nontraditional jobs. (Of course these shifts also reflect a variety of supply-side factors that we discussed in section 3.3.) Moreover, since occupational segregation by sex was considerably more pronounced than by race (Fuchs 1988 and Jacobsen 1994), such occupational shifts may have been more necessary for women than for blacks to reap wage gains from the government's antidiscrimination efforts, thus resulting in a greater lag in the impact of the government's equal employment opportunity policies on women's relative earnings. Second, these laws and regulations were rolled out during a period of extremely high growth in female labor supply; the negative

wage effects of this expansion in labor supply could have camouflaged an otherwise positive effect of the government's efforts.⁷⁴ On the other hand, it is puzzling that the largest female relative-wage gains and the strongest evidence of a decline in the unexplained gender wage gap were during the 1980s (see section 2 and section 6), which includes a period in which the government's antidiscrimination effort was noticeably scaled back.

Turning to work–family policy, we focus on parental leave, although we note that there are a wide range of other possible policies, including child care, that might be considered. The Family and Medical Leave Act (FMLA) of 1993 mandates that eligible workers be allowed to take up to twelve weeks of unpaid leave for birth or adoption, acquiring a foster child, illness of a child, spouse, or parent, or their own illness.⁷⁵ (Firms may voluntarily provide longer and/or paid leave.) Workers are entitled to their jobs upon returning from the leave. To the extent that parental leave policies strengthen worker attachment to the firm, they may encourage firm-specific investments, thus raising women's relative wages (since parental leave is much more likely to be taken by women than men). However, they may also encourage labor-force withdrawal for longer periods of time than otherwise (especially if they are of long duration), reducing women's accumulation of experience. Mandated leaves, again, particularly of long duration, may also diminish women's opportunities by increasing

employer costs of hiring women and hence providing incentives to discriminate against them. Mandated leaves might also reduce women's relative wages to finance the benefit (e.g., Gruber 1994). Thus, the effect of parental leaves on the gender wage gap is theoretically ambiguous. Empirical evidence for the United States suggests that the effect of the FMLA has been modest; it has been found to have a small positive effect on employment and no effect on wages (Baum 2003 and Waldfogel 1999). Results are broadly similar for California's introduction of six weeks of paid leave (with a replacement ratio of 55 percent) in 2004. Employment probabilities in the post-leave period were increased; and the effect on wages was not statistically significant (see, Baum and Ruhm 2013). A recent study by Thomas (2015), discussed above, does however suggest that FMLA increased the gender gap in promotion.

Since provision of parental leave in the United States is considerably less generous (in both duration and payment) than in other economically advanced countries, international comparisons may shed light on potential effects of more generous leave policies. In a study of nine Western industrialized countries, Ruhm (1998) found that female earnings were unaffected by rights to short parental leaves, while longer leaves (more than five or six months) lead to reductions in women's relative wages. These findings are consistent with results from Blau and Kahn (2013a), which found that the greater expansion of family-friendly policies in other economically advanced countries than in the United States between 1990 and 2010 increased female labor-force participation in these countries relative to United States, but was associated with a lower likelihood of women having full-time jobs or working as managers or professionals. (The mean duration of leave in these other countries was fifty-seven weeks in 2010, up from

⁷⁴In addition, prior to 1980, large increases in the labor-force participation of younger women resulted in a small decline in average experience for women as a whole, due to the shifting age composition of women workers (Goldin 1990, p. 41).

⁷⁵The FMLA requires the individual to have worked at least 1,250 hours in the past year and covers only workers in firms with at least fifty employees. In addition, the Pregnancy Discrimination Act of 1978 (an amendment to Title VII of the Civil Rights Act) prohibits employers from discriminating against workers on the basis of pregnancy.

thirty-seven weeks in 1990.) Taken together, these results suggest that a number of offsetting factors may be at work, with little impact on wages for shorter leaves and a negative effect dominating for long periods of mandated parental leave. Some innovative policies have been developed recently, including parental leave entitlements that incentivize fathers' leave taking (Dahl, Løken, and Mogstad 2014; Patnaik 2016), which may reduce the negative effects of extended leaves on women. The long-run impact of these policies on gender and the labor market, as well as the division of labor within the family, is an important research topic.

6. *Wage Structure, Demand, and Institutions*

Much research on the gender pay gap focuses on gender-specific factors: differences in qualifications, including experience, or treatment of women by firms (discrimination). In addition, however, men and women work in a world economy in which labor-market prices, such as the returns to education or experience, are affected by larger forces of supply and demand, as well as by labor-market institutions in the various countries. We now consider research that studies the impact of these larger economic forces on the gender pay gap.

A useful starting point is a key insight of Juhn, Murphy, and Pierce (1991), a study of black–white wage differentials, that the overall wage structure can affect the relative wages of specific groups. By “wage structure,” we mean the returns that the labor market offers for various skills and for employment in various industries or occupations. For example, countries with strong unions that raise the wages of less-skilled workers tend to have a relatively compressed wage structure, while, in the United States, wages are determined in a more decentralized manner, resulting in a more dispersed wage structure.

The wage structure can also change over time, as rewards to skills and premiums for employment in high-wage occupations and industries increase or decrease.

Both the human capital and discrimination explanations of the gender pay gap suggest a potentially important role for wage structure in determining how women fare, relative to men, across countries or over time. We illustrate by some examples focused on the temporal dimension. For example, despite important recent gains, women still have less experience than men, on average. If the labor-market return to experience rises over time, women will be increasingly disadvantaged by their lesser amount of experience. In addition, both the human capital and discrimination models suggest reasons why women are likely to be employed in different occupations and perhaps in different industries than men. This implies that an increase in the returns to employment in “male” occupations or industries will also place women at an increasing disadvantage. In fact, the patterns of rising overall wage inequality in the labor market, particularly in the 1980s, resulted from precisely such increases in the market rewards to skill and to employment in high-wage male sectors (Blau and Kahn 1997). This means that women as a group were essentially “swimming upstream” in a labor market growing increasingly unfavorable to workers with below-average skills—in this case, below-average experience—and for workers employed in disproportionately female occupations and industries. Yet the 1980s were precisely the time period in which women made the largest gains.

6.1 *US Evidence on the Impact of Wage Structure on the Gender Wage Gap*

How were US women able to swim upstream and narrow the gender wage gap in the face of economy-wide forces working against them? Blau and Kahn (1997 and

2006) found that this was the outcome of two broad sets of countervailing factors. On the one hand, working to decrease the gender wage gap, women increased their qualifications relative to men and, in the 1980s, the unexplained gender gap also narrowed substantially. On the other hand, working to widen the gender wage gap, particularly during the 1980s, were changes in wage structure (or returns to characteristics) that favored men over women. Of particular importance were a rise in the return to experience and increases in returns to employment in occupations and industries where men are more highly represented.⁷⁶ The sizable increase in the supply of women over the 1980s is another factor that likely worked to widen the gender wage gap as well. The decrease in the gender wage gap occurred because the factors favorably affecting women's wages were large enough to more than offset the impact of unfavorable shifts in returns and increasing female labor supply.

However, the matter may be more complicated than a simple decomposition of the trends would suggest. While rising demand for skill did shift labor-market prices in a way that worked against women on net in the 1980s, the underlying labor market demand shifts that widened overall wage inequality appear to have favored women relative to men in certain ways. Thus, these demand shifts likely also contributed to a decrease in the unexplained gender gap identified in Blau and Kahn (1997 and 2006) and section 2. Overall, manufacturing employment declined, particularly in the 1980s. In addition, some evidence indicates that technological change produced within-industry demand shifts that favored white-collar relative to blue-collar workers

in general. Given that men have tended to hold a disproportionate share of manufacturing and blue-collar jobs, these shifts would be expected to benefit women relative to men (Berman, Bound, and Griliches 1994; Blau and Kahn 1997 and 2006). Further, evidence suggests that increased computer use favors women's wages compared to men (Krueger 1993; Weinberg 2000; Welch 2000; Autor, Levy, and Murnane 2003; Beaudry and Lewis 2014). This may reflect women's greater comparative advantage in cognitive relative to manual or motor skills ("brains" versus "brawn" to borrow Welch's (2000) terminology).⁷⁷ Moreover, Borghans, ter Weel, and Weinberg (2014) present evidence that interpersonal interactions have become more important with the spread of computers. Since women's interpersonal skills tend to exceed men's, on average, this factor worked to increase women's wages relative to men's (Borghans, ter Weel, and Weinberg 2014).

Finally, figures 1 and 2 show that the gender pay gap closed much more slowly after 1990 than during the 1980s. Some evidence for the importance of demand shifts in causing this slowdown comes from Blau and Kahn (2006), who find that demand shifts related to industries and occupations favoring women were smaller in the 1990s than in the 1980s. Moreover, Borghans, ter Weel, and Weinberg (2014) find that the growth in the demand for interpersonal skills was faster in the 1980s than in the 1990s. In both of these studies, the slowdown in demand shifts favorable to women coincided with the slowdown in gender wage convergence overall and in the unexplained gap obtained in

⁷⁶While this was true of price shifts in the 1980s, our findings in table 5 indicate that for the 1980–2010 period, only changes in rewards to occupations produced substantial adverse price shifts for women.

⁷⁷Bacolod and Blum (2010) present evidence that there has been an increase in the labor-market return to cognitive skills and a corresponding decrease in the return to motor skills. This has likely benefited women relative to men, since women tend to be more highly represented in occupations where cognitive skills are important while men are more likely to be in jobs that emphasize motor skills.

decompositions like those presented in section 2.

6.2 *International Comparative Evidence on the Impact of Wage Structure on the Gender Wage Gap*

As mentioned earlier, many other countries have far more centralized wage-setting institutions than the United States, resulting in a far higher degree of wage compression. Centralized collective bargaining tends to reduce wage differentials through the negotiation of relatively high wage floors, which raise the relative wages of those near the bottom of the distribution, including women (Blau and Kahn 1996a). In countries such as many of those in the OECD, unions cover a much larger portion of the labor market than in the United States, and wage setting is much more centralized, leading to overall wage compression. Several studies have found that this kind of overall wage compression helps to explain international differences in the gender pay gap at a point in time. For example, Blau and Kahn (1992 and 1996b) found that wage compression explained all of the difference between the US (with a relatively high) gender pay gap and that in nine other industrialized countries; and Blau and Kahn (2003) found that differences in wage compression were an important factor explaining differences in the gender pay gap across twenty-two countries. Similarly, Kidd and Shannon (1996) found that wage compression helped explain Australia's smaller gender pay gap in relation to Canada's. And some studies have found that changes in wage compression over time within a country help explain changes in the gender pay gap (Edin and Richardson 2002—Sweden; Datta Gupta, Oaxaca, and Smith 2006—Denmark).

One of the most dramatic changes in the world over the last twenty-five years has been the fall of communism. In former Soviet Bloc countries and in China as well,

highly centralized wage-setting institutions with considerable wage compression were replaced with market-oriented, decentralized wage setting. These changes in institutions may be expected to widen the gender pay gap and this has indeed been found to be the case. For example, Brainerd (2000) found for the Czech Republic, Hungary, Poland, Russia, the Slovak Republic, and Ukraine that, after the fall of Communism, the wage structure became more dispersed and this raised the gender pay gap. Moreover, Orazem and Vodopivec (2000) found similar results for Slovenia after the fall of communism there, although there was little effect of the changing wage structure on the gender pay gap in Estonia. Finally, focusing on the 1988–2004 period, during which China's labor market became much less centralized as its economy became much more market oriented, Zhang et al. (2008) found that the resulting spread in the wage structure raised the gender pay gap considerably.

An additional test of the importance of wage structure is to look at employment. If firms take labor costs as given, high union-negotiated wage floors should lower female relative employment. And this is precisely what Bertola, Blau, and Kahn (2007) find in a study of relative employment in seventeen countries over the 1960–96 period. Specifically, they find that greater coverage by highly centralized unions lowers female employment and raises female unemployment, compared with men's.

7. *Conclusion*

We have shown that the gender pay gap in the United States fell dramatically from 1980 to 1989, with slower convergence continuing through 2010. Using PSID microdata, we documented the improvements over the 1980–2010 period in women's education, experience, and occupational representation, as well as the elimination of the female

shortfall in union coverage, and showed that they played an important role in the reduction in the gender pay gap. Particularly notable is that, by 2010, conventional human-capital variables (education and labor-market experience) taken together explained little of the gender wage gap in the aggregate. This is due to the reversal of the gender difference in education, as well as the substantial reduction in the gender experience gap. On the other hand, gender differences in location in the labor market—distribution by occupation and industry—continued to be important in explaining the gap in 2010. A decrease in the unexplained gap over the 1980s contributed to the robust convergence in the gender wage gap over that decade, with the unexplained gap falling sharply from 21–29 percent in 1980 to 8–18 percent by 1989. However, the unexplained gap did not fall further subsequently, remaining in this range over the succeeding twenty years. We also found that both the raw and the unexplained gender pay gap declined much more slowly at the top of the wage distribution than at the middle or the bottom. By 2010, the raw and unexplained female shortfalls in wages, which had been fairly similar across the wage distribution in 1980, were larger for the highly skilled than for others, suggesting that developments in the labor market for executives and highly skilled workers especially favored men.

Our review of the literature was designed to shed light on the explanations for the gender wage gap, both factors that have been traditionally emphasized and newer explanations that have been offered. We provided a discussion of the causes of women's improvements in measured skills, emphasizing the remarkable reversal of the gender gap in college attendance, as well as women's increasing commitment to the paid labor force. In light of the persistent unexplained pay gap, we then discussed recent research on gender differences in factors that standard

data sets cannot measure, or which have not been the focus of conventional wage gap studies. We considered the ways in which conventional gender roles and gender identity, as well as the presence of children, can contribute to the gender wage gap. We also examined evidence on gender difference in mathematics test scores and noncognitive skills such as gender differences in attitudes toward competition, negotiation, and risk aversion.

We conclude that many of the traditional explanations continue to have salience for understanding the gender wage gap and changes in the gap, although some factors have increased and others have decreased in importance. One of our findings is that while convergence between men and women in traditional human-capital factors (education and experience) played an important role in the narrowing of the gender wage gap, these factors taken together explain relatively little of the wage gap in the aggregate now that, as noted above, women exceed men in educational attainment and have greatly reduced the gender experience gap. Nonetheless, labor-market experience remains an important factor in analyzing female wages, and the absence of data on prior labor-market experience in many widely used cross-sectional data sets, like the CPS and the ACS, remains an issue. Such information is likely increasingly relevant for male wages, as well in the wake of the disruptive effects of the great recession. Including retrospective experience questions in these data sets would address this important omission (see, Blau and Kahn 2013b). Moreover, recent research suggests an especially important role for work force interruptions and shorter hours in explaining gender wage gaps in high-skilled occupations than for the workforce as a whole—this work is particularly relevant in that, as we have seen, the gender wage gap at the top of the wage distribution appears to have decreased more slowly than at the middle and the

bottom. While this might suggest a continued relevance of human-capital factors for these labor markets, the interpretation of these findings in a human capital framework has been challenged. Goldin (2014), for example, argues that they more likely represent the impact of compensating differentials, in this case wage penalties for temporal flexibility. Additional research pinpointing when and where labor-force interruptions and hours differences are important and testing the reasons for their impact would be useful.

Although decreases in gender differences in occupational distributions contributed significantly to convergence in men's and women's wages, gender differences in occupations and industries are quantitatively the most important measurable factors explaining the gender wage gap (in an accounting sense). Thus, in contrast to human-capital factors, gender differences in location in the labor market, a factor long highlighted in research on the gender wage gap, remain exceedingly relevant. The continued importance of gender differences in employment by industry and occupation, as well as by firm, suggests the fruitfulness of research aimed at better understanding the underlying reasons for these gender differences, as well as their consequences. The growing availability of matched firm-worker data should facilitate such research.

Another factor emphasized in traditional analyses that remains important is differences in gender roles and the gender division of labor. Current research continues to find evidence of a motherhood penalty for women and a marriage premium for men. Moreover, the greater tendency of men to determine the geographic location of the family continues to be a factor even among highly educated couples. The importance of dual-career issues in the location of families highlights another area of potentially useful research in an era in which such couples have become increasingly important. Here,

as in other areas, greater understanding of feedback effects would be important—the division of labor in the family potentially responds to, as well as causes, gender differences in wages.

The persistence of an unexplained gender wage gap suggests, though it does not prove, that labor-market discrimination continues to contribute to the gender wage gap, just as the decrease in the unexplained gap we found in our analysis of the trends over time in the gender gap suggests, though it does not prove, that decreases in discrimination help to explain the decrease in the gap. We cited some recent research based on experimental evidence that strongly suggests that discrimination cannot be discounted as contributing to the persistent gender wage gap. Indeed, we noted some experimental evidence that discrimination against mothers may help to account for the motherhood wage penalty as well. Future work could usefully focus on efforts to test for discrimination and understand its quantitative importance, as well as help us to better understand which model or models of discrimination are most consistent with the patterns we observe.

Psychological attributes or noncognitive skills comprise one of the newer explanations for gender differences in outcomes, and we have reviewed an impressive array of recent research suggesting that there are indeed notable gender differences along this dimension. While male advantages in some factors, like risk aversion and propensity to negotiate or compete, may help to explain not only some of the unexplained gender wage gap but also gender differences in occupations and fields of study, it is important to note that women may have advantages in some other areas, like interpersonal skills. Moreover, we found evidence that gender differences in some psychological attributes/noncognitive skills can themselves be affected by social context and thus might not be independent causes of the gender pay gap

in the first place. And, while gender differences in some psychological attributes/non-cognitive skills have been observed, more work is needed to confirm these differences outside the laboratory setting where much of the research has been focused, although we have reviewed some recent studies that have done so. In addition, there is also relatively little research that would enable us to determine the quantitative importance of these differences for the gender wage gap. To address this issue, we focused on a subset of papers in this area that used methods, primarily regression analysis of survey data, which permitted us to calculate the quantitative evidence on the importance of these factors. The notable finding from this exercise is that, in each case, gender differences in psychological factors account for a small to moderate portion of the gender pay gap, considerably smaller than, say, occupation and industry effects, though they appear to modestly contribute to these differences. Thus, this source of the gender gap, based at least on what we know at this point, while worth pursuing, does not appear to provide a silver bullet in our understanding of gender differences in labor-market outcomes. Continued research in this and other areas is likely to benefit from field experiments, which arguably provide credible exogenous variation in the economic environment facing workers as well as real-world settings, and will likely continue to provide insights into gender differences in preferences, behavior, and labor-market outcomes.

Finally, we reviewed research that finds that, given men's and women's differing skill levels and locations in the economy (by occupation, industry, and firm), overall labor market prices can have a significant effect on the gender wage gap. In particular, the more compressed wage structures in many other OECD countries, due to the greater role of unions and other centralized wage-setting institutions in these countries,

have served to lower the gender pay gap there relative to the United States by bringing up the bottom of the wage distribution. This appears to have also lowered female employment and raised female unemployment compared with men, as would be expected if higher wage floors are binding. This evidence on the impact of wage-setting institutions on the gender wage gap could become increasingly relevant to the United States as minimum wage hikes, some quite substantial, are being contemplated at many levels of government.

Data Appendix

Here, we briefly summarize a number of data issues for the analyses in tables 1–6 based on microdata taken from the indicated waves of the PSID and the March CPS. (See our online data appendix for a fuller description.) The PSID is the only data source that has information on actual labor-market experience for the full age range of the population. However, because the PSID only supplies this work history information for family heads and spouses/cohabitators, it does not cover adults who are living with relatives, such as grown children living in their parents' home. In addition, the PSID's base sample began with roughly 5,000 families from 1968, when immigrants were a much smaller portion of the population. This means that the current PSID sample, which consists of these original families plus split-offs, undercounts immigrants today. For these reasons, we also show data from the CPS that are more representative of the whole US population.

We focus on men and women aged 25–64 who were full time, nonfarm, wage and salary workers and who worked at least twenty-six weeks during the preceding year. We also excluded those in the military. See table 1 for sample sizes. This age group has, for the most part, left school, allowing us to abstract

from issues of combining work and school attendance. Limiting the top of the age range to sixty-four to some degree abstracts from normal retirement issues (patterns were very similar when we limited the sample to ages 25–54). In addition, by limiting our sample to those who worked full time and had at least twenty-six weeks of work in the prior year, we are focusing on those with a relatively strong labor-market commitment. This sample restriction leads to a relatively homogeneous sample with respect to this commitment, allowing us to reach more accurate conclusions about the prices women and men face in the labor market. We exclude the self-employed and those in agriculture on the grounds that it is difficult to separate labor income from capital income or income in kind for these groups. Our basic dependent variable is the log of average hourly earnings, which we compute in the PSID by dividing annual labor earnings by annual hours worked and in the CPS by dividing annual wage and salary earnings by annual hours worked. Means and other data presented here are for the sample used in our regression analyses. In the PSID, we exclude cases with missing data on the dependent or explanatory variables, or variables needed to compute them. In the CPS, we exclude cases with allocated earnings.

For early years of the PSID, separate values for wage and salary income and self-employment/farm income are not available for wives. Therefore, for analyses using the PSID, we use total labor earnings for people who report that they were not self-employed on any job. In earlier work (Blau and Kahn 2004), we showed that this did not have an important effect on average hourly earnings among household heads, a group for which we had data on both total labor earnings and wage and salary earnings. While the PSID does not topcode earnings, the CPS does, although the method for doing so changed. For 1981 and 1990, the

topcoded values represented true top codes. In those years, we multiplied the topcoded value by 1.45. In 1999, the topcode was replaced with the mean earnings for topcoded individuals with similar characteristics and, in 2011, a rank proximity-swapping procedure was used. In those years, we used the values provided in the CPS.⁷⁸ (In each year, less than 2 percent of the sample was topcoded.) In both data sets, we exclude those earning less than \$2/hour in 2010 dollars, using the Personal Consumption Expenditures deflator (taken from www.bea.gov). This cutoff equals 28–38 percent of the real federal minimum wage across our sample period (see <http://www.bea.gov/iTable/iTable.cfm?ReqID=9&step=1#reqid=9&step=3&isuri=1&904=1980&903=4&906=a&905=2014&910=x&911=0>, accessed August 19, 2014 and <http://www.dol.gov/whd/min-wage/chart.htm>, accessed August 19, 2014). We experimented with other cutoffs, including a flat \$3/hour in 2010 dollars, as well as using 50 percent of each year's real minimum wage as a cutoff. The results were very similar to those presented here.

Data on actual experience from the PSID are obtained as follows. Whenever people join the PSID panel for the first time as a head or partner, they are asked how many years they worked since they were eighteen years old, and, of these years, how many involved full-time work. In addition, in other years (1976 and 1985), the PSID asked all heads and partners these two questions regardless of when they joined the panel. The answers to these questions form the base from which we calculate actual full-time experience and part-time experience (which is defined as total experience minus full-time experience). Once we have these initial values for

⁷⁸See our online data appendix and IPUMS CPS, "Income Components: Topcodes, Replacement Values, and Swap Values," available at https://cps.ipums.org/cps/topcodes_tables.shtml.

full-time and part-time experience, we fill in the period between the date these questions were asked and the focal year by using the longitudinal work history data collected for all heads and partners in the years after they join the panel or in the years after 1976 or 1985, whichever comes last. For example, suppose the respondent joined the panel in 1987 and we want to compute full-time and part-time experience as of the 1990 survey. These were collected as of 1987. We then add one to total labor market experience for each year between 1987 and 1990 in which the person worked positive hours and one for full-time experience for each year the person worked at least 1,500 hours. Part-time experience is increased by one for each year there were positive but less than 1,500 hours of employment.

One complication that arises is that the PSID began skipping alternate years with the 1999 survey, meaning that for 1999 and beyond we need to fill in two years of experience. As described in the online appendix, each wave contains different information that can be used to extract work status in the gap year (e.g., 1997–98). Upon extracting as much information as possible, remaining missing values were filled using statistical methods to impute the probability of working and full-time/part-time employment. For example, suppose we do not have information on annual work hours between 1997 and 1998. To fill in this missing year of experience, we estimate logit models separately by gender for having positive work hours and for working at least 1,500 hours in the previous year for both 1997 and 1999. To estimate total and full-time experience for the missing year (i.e. the year between 1997 and 1998), we average the two predicted values for these variables from the 1999 logit and the 1997 logit. (This procedure is described in greater detail in the online appendix.) Note that we do not fill in missing observations for other variables in this fashion. Our rationale

for doing so for work experience is that it accumulates over time. If a respondent has a single missing value for any wave, then all subsequent work experience values will also be missing. Due to this cumulative nature, we fill in missing values for this variable.

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