Changes across Cohorts in Wage Returns to Schooling and Early Work Experiences^{*}

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Abstract

This paper investigates the wage returns to schooling and actual early work experiences, and how these returns have changed over the past twenty years. Using the NLSY surveys, we develop and estimate a dynamic model of the joint schooling and work decisions that young men make in early adulthood, and quantify how they affect wages using a generalized Mincerian specification. Our results highlight the need to account for dynamic selection and changes in composition when analyzing changes in wage returns. In particular, we find that ignoring the selectivity of accumulated work experiences results in overstatement of the returns to education.

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1 Introduction

Since the 1970s, there have been dramatic changes in the structure of the U.S. labor market. Foremost among these is a steep increase in the college wage premium during the 1980s, followed by a slower increase thereafter (see, e.g., Katz and Murphy, 1992; Card and Lemieux, 2001; Carneiro and Lee, 2011; Valletta, 2019). The characteristics and skill accumulation of American youth also have changed over this same time period. For example, using data from the 1979 and 1997 panels of the National Longitudinal Survey of Youth, Altonji et al. (2012) note an increase in skills over time, along with an overall widening of the skill distribution which appears to be driven by trends in parental education. College attendance has drastically increased, college graduation has been delayed, and the average amount of in-college accumulated work experience has gone up (see, e.g., Bacolod and Hotz, 2006; Scott-Clayton, 2012; Bound et al., 2012). Accounting for these changes in composition is important to understand how the premium for skill investment has evolved over time.

Our paper addresses three related research questions. First, what are the cross-cohort changes in the wage returns to schooling and early career work experiences? Second, how much of the cross-cohort change in the college wage premium actually reflects an increase of in-school, and, more generally, early work experience? Third, how did the returns to cognitive ability and other non-cognitive skills change across cohorts of young men? Answering these questions requires controlling for selection into schooling and work experiences. We do this by specifying and estimating, for two different cohorts, a dynamic model of schooling and work decisions. We estimate this model with data on two longitudinal data sets, the 1979 and 1997 panels of the National Longitudinal Surveys of Youth (NLSY), with our 1979 panel containing data on young men born in 1959–1964 and our 1997 panel on those born in 1980–1984.

Our use of longitudinal, rather than repeated cross-sectional, data allows us to more accurately measure early-career schooling and actual accumulated work experiences and to account for their endogeneity.¹ From each of the NLSY surveys, we construct comparable

¹See also Bacolod and Hotz (2006); Altonji et al. (2012); Castex and Dechter (2014); Lee et al. (2015); Böhm (forthcoming); Deming (2017), who also have used NLSY data to make cross-cohort comparisons about the labor market.

measures of schooling, employment, and military histories from ages 16 through 35, along with comparable measures of earnings, educational attainment, cognitive skill, local labor market and higher-education conditions, and personal and family background characteristics. From these histories, we are able to construct measures of multiple dimensions of human capital investment, including whether or not work experience occurred simultaneously with schooling. Of particular relevance for us is the important work of Altonji et al. (2012), who also use the NLSY 1979 and 1997 surveys to document the cross-cohort changes in the unobserved distribution of cognitive ability. We follow Altonji et al. (2012) to construct comparable measures of correlates of unobserved cognitive ability from the Armed Services Vocational Aptitude Battery (ASVAB) administered to respondents in each panel of the NLSY.² However, while their analysis highlights the implications of the changes in skill distribution in terms of wages and employment, in this paper we focus instead on the endogeneity of skill accumulation—i.e., schooling and work experiences—and document how the returns to these skills, as well as to cognitive ability, have changed across these cohorts.

Our analysis builds on the extensive literature that estimates the returns to schooling, beginning with the seminal work of Mincer (1974), who introduced what has become known as the Mincer model. This model interprets the coefficient on schooling in a log wage equation that controls for a quadratic in potential experience as a rate of return. Focusing on earnings, Heckman et al. (2006a) show that using flexible polynomials of schooling and potential work experience, as well as allowing for non-linearities associated with degree completion (also known as "sheepskin effects"), is essential to accurately estimate the returns to schooling. An important contribution of our paper is to show that it is crucial to use *actual*, rather than *potential*, work experience when estimating the wage returns to the latter and that accounting for actual work experiences also affects estimated wage returns to schooling.

We deal with selection into schooling and work experiences by specifying and estimating a dynamic model of schooling and work decisions that controls for person-specific unobserved heterogeneity.³ We follow Cameron and Heckman (1998, 2001) and Heckman et al. (2006b),

²A subset of the measures in the ASVAB are used to construct the Armed Forces Qualifying Test (AFQT) score, which is used by the U.S. Military in determining qualifications of young adults for military enlistment.

 $^{^{3}}$ See also recent work by Belzil and Hansen (2019) who estimate, using data from the NLSY79 and NLSY97, a dynamic model of schooling choices in which they control for dynamic selection on unobservables. Unlike Belzil and Hansen (2019), we account in our paper for dynamic selection into schooling as well as

among others, and use a factor model to reduce the dimensionality of the unobserved state space.⁴ We use initial background conditions, local college conditions, cognitive test scores and the panel structure of the data to identify the heterogeneity factors. Noteworthy, unlike most of the literature on the wage returns to schooling and work experience, we separately account for work experience that is accumulated before or after graduation. Distinguishing between these two forms of work experience is important since they may be rewarded differently upon post-schooling labor market entry. Furthermore, failure to account for pregraduation work experience may bias estimates of the returns to schooling by incorrectly attributing to schooling the portion of the wage that in fact corresponds to in-school work experience.⁵

Our paper also contributes to the literature on understanding the effect of in-school work on future educational and labor market outcomes (Hotz et al., 2002; Bacolod and Hotz, 2006; Scott-Clayton, 2012; Baum and Ruhm, 2016). Working while in school may cause students to take longer to complete schooling, or drop out altogether. However, accumulating work experience during school also may have long-term benefits in the form of higher wages. Key to distinguishing between the costs and benefits of in-school work is accounting for the selection decisions of the individuals who participate. If, for example, high-ability students disproportionately obtain in-school work experience and are much more likely to graduate from high school and/or college, then failure to account for this type of selection will produce misleading policy conclusions about the labor market benefits of in-school work experience. We attempt to account for such selection in our econometric analyses.⁶

Using estimates of our dynamic model, we examine the selection-corrected returns to

work experiences. Furthermore, while their paper focuses on the determinants of schooling outcomes, our main focus is on the wage returns to schooling and work experiences. Related research by Kejriwal et al. (forthcoming) also examines changes over time in the return to schooling. Using data from the Survey of Income and Program Participation (SIPP) linked with administrative earnings data, they account for multidimensional unobserved heterogeneity using an interactive fixed effects framework. Their approach does not account for actual work experience.

⁴For other examples of factor models that have been used in the context of the returns to schooling, see, among others, Taber (2001); Hotz et al. (2002); Cunha et al. (2011); Heckman et al. (2018).

⁵For example, Arcidiacono et al. (2016) find that pre- and post-graduation work experience is rewarded differently for college graduate workers.

 $^{^{6}}$ Hotz et al. (2002) also control for dynamic selection into in-school work when estimating the returns to in-school work experience. Unlike Hotz et al. (2002), our paper explicitly accounts for the fact that unobserved skills are multidimensional in nature.

schooling and work experiences, as well as to unobservable cognitive and other, non-cognitive skills, and how they changed across the cohorts we study. Our findings contribute to a small but growing empirical literature that has focused on decomposing the trends in the returns to education (Taber, 2001; Fang, 2006; Fortin, 2006; Lee and Wolpin, 2010; Cunha et al., 2011; Carneiro and Lee, 2011).⁷

We find that failure to account for selection into various types of schooling and work experience results in sizable overstatements of the wage returns to degree attainment, and a slight understatement of the wage returns to completed years of schooling. In addition, our selection-corrected estimates indicate that the return to an additional year of schooling is 3 percentage points higher among recent cohorts. With respect to degrees, we find that the return to a high school degree was slightly higher for the NLSY97, but find no meaningful difference across cohorts in the returns to a bachelor's degree.

At the same time, controlling for selection has less of an effect on the returns to actual inschool and post-schooling work experiences than on the returns to schooling. The selectioncorrected estimated returns to working while in high school are negative for both cohorts, more so for more recent ones, while early cohorts had a 6% return to working while in college, but none for more recent ones. With respect to post-schooling work experiences, selection-corrected return to part-time work is negative for both cohorts, more so for the earlier cohorts, while return to full-time work ranges from 2% to 4%, with more recent cohorts having a higher one.

Finally, based on our selection-correction factor model, we find sizable returns to both cognitive and other, non-cognitive skills, with the returns to cognitive skills being lower for more recent cohorts relative to earlier ones, while returns to other non-cognitive skills are considerably higher for the more recent cohorts compared to the earlier ones.

The remainder of the paper is organized as follows. Section 2 details the data we use and its construction; Section 3 presents descriptive statistics for the two cohorts we examine. In Sections 4 and 5, we lay out the specification and estimation of our econometric model. In Section 6, we present the results for our various models and their implied returns to schooling

⁷While they focus on a different set of questions, Lee and Wolpin (2010) is particularly relevant for us as, to do so, they estimate a dynamic structural (equilibrium) model of schooling and work decisions in which they distinguish between six different types of sector-occupation-specific skills.

and work experiences, along with those for unobserved skills. Finally, Section 7 summarizes the paper and discusses some implications of our findings. All tables are collected at the end of the paper.

2 The Data

The data we use to determine the wages, education and types of work experience across cohorts are derived from two panels of the National Longitudinal Survey of Youth (NLSY), the NLSY79 and NLSY97. These surveys interview American youth beginning in their adolescent years and follow them through adulthood. They contain information on education, employment, background variables and location (county), among many others. The NLSY79 began in 1979 with a sample of respondents born in 1957–1964, when they were aged 14–22. The respondents in the NLSY97 were born in 1980–1984, and were first interviewed in 1997 when they were aged 12–17.

From these data, we make several sample selections. First, we restrict our analysis to male respondents.⁸ Second, we restrict ourselves to the male respondents in the NLYS79 who were no more than age 20 in 1979 (i.e., were born in 1959–1964), in order to minimize recall error at the first interview about their work and schooling experiences during adolescence (no such restrictions were imposed on the NLSY97, given that the oldest respondents were only age 17 at the start of the latter survey). Third, we drop respondents in the military and in the economically disadvantaged white NLSY79 oversamples, since the former oversample was not followed after 1984 and the latter oversample was not followed after 1980. Finally, we drop respondents who were screened as "mixed race" in the NLSY97, since this was not an option in the NLSY79. After these restrictions, which are documented in detail in Table A.1 of Appendix A, we end up with 3,862 male respondents from the NLSY79 and 4,559 from the NLSY97. In all of the analysis presented below, we split our data by these two NLSY surveys. One set of birth cohorts consists of NLSY79 respondents born in years 1959–1964 (henceforth referred to as "NLSY79"), while the other set of birth cohorts consists of

⁸We focus on men for two main reasons: (i) including women during early adulthood would require us to model their fertility decisions, which is outside of the scope of the present analysis; and (ii) much of the literature that has studied human capital formation to which our analysis is comparable has focused on men.

NLSY97 respondents (henceforth referred to as "NLSY97").

In both of the NLSY surveys, individuals are interviewed annually for the first 15 survey rounds and biennially thereafter. At each interview, respondents provide a history of what has transpired in their lives since the previous interview.⁹ For example, the survey collects information on all jobs held between the current and previous interview, the wage and hours worked at each of those jobs, and the industry and occupation code of each job. Data related to educational attainment and schooling enrollment/attendance are similarly rich. Linking the survey reports together, it is possible to get measures of employment, schooling enrollment, military service, and hourly wages for those employed on a month-by-month basis. We track activities on a monthly basis so as to be able to distinguish between work experience that occurred during school as opposed to over the summer or between semesters, as well as work experience that occurred before graduation as opposed to after graduation. In the analysis below, we focus on the activities of respondents in our two cohorts over the ages 16 through 35, covering the years 1975 through 1999 for the NLSY79 and 1996 through 2016 for the NLSY97.¹⁰

With respect to initial conditions, young men in both cohorts are asked detailed questions in their first interview about their family situations. These family background characteristics (parental education, family income and household structure) are assumed to affect labor market outcomes only through activity choices, and, as such, serve as exclusion restrictions in our econometric model. In addition, the NLSY tracks the location of each individual in the surveys. Using the restricted-access Geocode supplement of the NLSY data, we are able to match individuals in the NLSY with county-level data from the Census Bureau, Bureau of Labor Statistics (BLS), and Bureau of Economic Analysis (BEA). This allows us to analyze the local labor market conditions that each individual faces over time. With additional data from the Integrated Postsecondary Education Data System (IPEDS), we create variables representing the higher-education landscape that these young men faced as

⁹At the first interview, the survey asked extensive questions related to working and schooling history before the survey. Thereafter, for respondents who missed an interview, interviewers attempted to contact the individual during the following cycle and collect data on experiences between the current interview and the most recently completed interview.

¹⁰See Table A.1 for the number of person-months observations for each of our birth cohorts and Table B.1 of Appendix B (online) for the ages and years covered for each.

teenagers (presence and number of four-year colleges in the age-16 county of residence and tuition at state flagship university), which serve as further exclusion restrictions (see Section 5.3).

Our analysis is conducted on the following two samples: 3,852 men in the NLSY79 (854,179 person-month observations) and 4,443 men in the NLSY97 (792,652 person-month observations).¹¹ The additional sample cuts are due to attrition from the survey or missing interview spells of three or more years. A complete summary of sample selection criteria is included in Table A.1. In Appendix A, as well as in Appendix B (online), we provide full details about the creation of our analysis samples as well as the construction of the variables used in our analysis from the NLSY79 and NLSY97 data, as well as the other data sources.

3 Cohort Differences in Background Characteristics, Skill Attainment and Skill Wage Premia

In this section, we present some stylized facts across our two cohorts about differences in backgrounds, skill attainment, and wage premia to skills. We present these numbers at age 29—an age by which almost all individuals have completed their educational attainment.¹²

3.1 Personal and family background

We start by describing the differences across our two cohorts in personal and family background characteristics.

In the first panel of Table 1, we show differences in race/ethnicity and nativity. There is no change in the percentage of African Americans, but we do see a very significant increase in the percentage of Hispanics across cohorts (from 7% to 14%). Interestingly, there is no significant change in the percentage of those who were born outside of the United States.

In the next panel of Table 1, we display differences in mothers' and fathers' education, family income, and status of who is the head of the household.¹³ Between the NLSY79 and the NLSY97 cohorts, parental education increased by more than one grade level for mothers

 $^{^{11}}$ Our wage analysis comprises 464,330 person-month observations in the NLSY79 and 422,114 personmonth observations in the NLSY97.

 $^{^{12}{\}rm Keeping}$ in mind that we are using monthly data, the numbers are calculated in the month before the respondents turn 29.

¹³These are the family background variables that make up some of our model's exclusion restrictions.

and more than four-fifths of a grade level for fathers. With respect to the more recent cohorts, they grew up in households with higher family income (\$33.58K vs. \$32.86K), although this difference is not statistically significant. Finally, the share of young men in our samples that grew up in female-headed households increased by 11 percentage points between the NLSY79 and NLSY97.¹⁴

There also are differences across the two cohorts in measures of cognitive skills. We focus here on differences in scores on the Armed Forces Qualification Test (AFQT).¹⁵ The third panel of Table 1 displays the median and standard deviation of AFQT scores for the two cohorts, as well as cross-cohort differences. AFQT scores for the NLSY97 are, in general, higher and more dispersed than those for the NLSY79, with an overall large (but not statistically significant) increase of 0.07 standard deviations in the *median score* as well as a small (but statistically significant) increase in the standard deviation itself. These results are consistent with the findings of Altonji et al. (2012), who document a widening of the AFQT distribution between the NLSY79 and NLSY97 cohorts.

3.2 Educational attainment and work experiences

We now consider differences across the two cohorts in months of accumulated schooling and work experiences, and educational degree attainment.

Table 2 describes schooling attainment and college completion at age 29 for both cohorts. In the first panel, there is a clear increase across cohorts in educational attainment. While there is little change in the high school dropout rate across cohorts, there is a 3 percentage point increase in those that complete some college and a 4 percentage point increase in those that receive a bachelor's degree. For comparison purposes, in Table C.1 of Appendix C (on-

 $^{^{14}}$ In Table C.2 of Appendix C (online), we show cross-cohort differences in local labor markets and local college characteristics. The local college characteristics account for the remainder of our exclusion restrictions.

¹⁵The AFQT is a subset of the ASVAB (Armed Services Vocational Aptitude Battery). Specifically, AFQT scores are a weighted average of four ASVAB sub-tests: Arithmetic Reasoning (AR), Mathematics Knowledge (MK), Paragraph Comprehension (PC), and Word Knowledge (WK). In our model, we make use of six ASVAB sub-tests, the four in the AFQT as well as Coding Speed (CS) and Numerical Operations (NO).

To make both the AFQT and ASVAB scores comparable across cohorts, we follow Altonji et al. (2009) and Altonji et al. (2012) by making use of an equipercentile mapping in ASVAB test scores that corrects for both testing medium (i.e. pencil and paper vs. computer assisted) and age at test (NLSY97 respondents were much younger than NLSY79 respondents when they took the ASVAB).

line), we report educational attainment from identically-aged men in the Current Population Survey (CPS); the CPS shows cross-cohort changes similar to those in the NLSY.¹⁶

In the second panel of Table 2, we find an increase in the number of young men starting college, although there is not a significant change in the college graduation rate among those who start (though there is a nominal increase). Further, we see a significant increase of two-fifths of a year in the time to a college degree, which finding is consistent with Bound et al. (2012).

We also examine differences across the two cohorts in months of accumulated schooling and work experience. Table 3 reports average levels of schooling and work experience (in months) by age 29 (beginning at age 16). Consistent with Table 2 and Bound et al. (2012), we find that students in the NLSY97 spent longer in school by almost a full year. Despite this, those in the NLSY97 also accumulated slightly *more* total work experience by age 29 as the NLSY79 (almost 2 months more). That said, there were differences in the types of work experience the two cohorts accumulated by this age. In particular, there was an increase across cohorts in the accumulated level of in-high-school work experience (about 2.5 months), and a much larger increase in in-college work experience (over 8 months). Furthermore, while the overall level of out-of-school part-time work was basically the same, the overall level of out-of-school full-time work sharply declined (by over 9 months).

These differences across cohorts in the types of accumulated work experiences that young men experienced motivate our differential treatment of in-school and out-of-school work experience.

3.3 Wage premia

Finally, we examine how wage premia have varied across our two cohorts by documenting how the association between wages at age 29 and amounts of schooling or work experience has changed across cohorts. Herein, we refer to differences in wages across school and work experience levels as "wage premia," although we hasten to add that these measures are not to be interpreted as causal effects. Below, in Sections 4 and 5, we develop a model to estimate

¹⁶For a more complete comparison of educational wage premia in the NLSY, CPS, and other major US household surveys, see Ashworth and Ransom (2019).

the causal effects of schooling and work experience on wages.

The first panel of Table 4 reports the wage premia associated with various experiences for those working full-time at age 29. Each row shows the mean change in the full-time log wage with an additional year of each type of experience. The wage premia are highest for working in college, in the range of 7% to 9%.¹⁷ On the other hand, out-of-school part-time work experience is associated with lower wages, in the range of -9 to -13% for an additional year of experience.¹⁸ For full-time work experience, the wage premia are small and not statistically different from zero. For each of the work experience wage premia, we see a decrease across cohorts. The model we present in the next section will shed light on whether these patterns in wage premia similarly hold for wage returns.

The other panels of Table 4 allow us to assess how the observed wage premia associated with educational attainment have changed across these cohorts. The second panel shows average log wages associated with the four different educational attainments described in Table 2, and reveals a decrease in inflation-adjusted wage levels across cohorts of between 3 and 10 log points for each education level. The third panel shows the wage premia for each degree. Most notable is the significant decrease in the college wage premium, which is 3 log points lower in the more recent cohort.¹⁹

As noted above, our discussion thus far has ignored the possibility that selective differences in educational attainment and accumulated work experiences may affect the suggested impacts of the latter on wages among young men and how they changed across cohorts. In the next section, we introduce the model that we use to account for selection into the various types of experience, and, in our final results, present and discuss selection-corrected wage

¹⁷To further investigate whether the timing of in-college work experience matters, we separate in-college work experience into two types: experience attained in the freshman and sophomore year, and experience attained in later years of college. Table 4 shows that earlier in-college work experience has a larger premium in the NLSY79, but that the two have similar premia in the NLSY97.

 $^{^{18}}$ As we will show later in the paper, this negative association partly reflects negative selection into parttime work.

¹⁹While our finding of a decreasing college wage premium between the NLSY79 and the NLSY97 is at odds with some previous research (Castex and Dechter, 2014; Böhm, forthcoming; Deming, 2017), it is consistent with some recent studies of changes in wages over time and is robust to a number of different specifications. Ashworth and Ransom (2019) perform a full comparison of the college wage premium using five different U.S. surveys and find that, compared to other U.S. surveys, the NLSY shows a much lower college wage premium for the NLSY97 cohorts and a much lower advanced degree premium for the NLSY79 cohorts born in 1960–1964.

returns. The differences we have documented in schooling and work experiences, as well as in personal and family background characteristics, are the prime motivation for our model in which we estimate the evolution of wage returns to skills by accounting for these changes in composition.

4 The Model

In this section, we develop a dynamic model of schooling and work decisions. We use it to form an econometric model that accounts for the endogeneity of accumulated schooling and work experiences in the estimation of wage returns across our two cohorts.

4.1 Activity choices

We assume that, at each age a—which is measured in months in our case—individual i, who is a member of birth cohort c, chooses *activity* j from a set of possible activities, which may vary with age and/or the occurrence(s) of one or more previous events. For simplicity, we suppress notation indexing the individual's cohort. We estimate the model separately for both the NLSY79 and NLSY97 cohorts, so all the parameters should be understood as cohort-specific. Let R_{ia} denote the choice set for individual i at age a, where we assume that there are K possible choice sets, i.e., $R_{ia} = r \in 1, \ldots, K$. Then, conditional on facing choice set $R_{ia} = r$, individual i chooses from among J^r activities, where we define

$$d_{iaj}^{r} = \begin{cases} 1 & \text{if } i \text{ chooses activity } j \text{ from choice set } r \text{ at age } a \\ 0 & \text{otherwise,} \end{cases}$$
(1)

and $\sum_{j=1}^{J^r} d_{iaj}^r = 1$, for all *i*, *a* and *r*. In practice, we consider K = 3 choice sets, which are composed of the potential activities for those who: (*i*) have not graduated from high school ($R_{ia} = 1$); (*ii*) have graduated from high school but have not graduated from college ($R_{ia} = 2$); and (*iii*) have graduated from college ($R_{ia} = 3$). The three choice sets and the activities associated with each are given in Table 5, and the definitions of these activities are found in Appendix A.

4.2 School and work experiences

We are interested in estimating the effects of accumulated experiences on various outcomes. In particular, we are interested in accumulated years of school attendance, as well as years of work experiences. We also use our model to estimate the effect of educational attainment, such as high school and college graduation, on these outcomes. In the following, we will refer to these work experiences, schooling activities and graduation outcomes collectively as "experiences."

The vector of types of experience is given by:

$$\mathbf{x}_{ia}^{r} \equiv \begin{pmatrix} x_{1ia}, & \mathbf{x}_{2ia}^{r}, & x_{3ia}, & x_{4ia}, & x_{5ia}, & x_{6ia}, & I_{ia}(R_{ia} > 1), & I_{ia}(R_{ia} = 3) \end{pmatrix}'$$
(2)

where the experience variables are: x_{1ia} , the number of years of schooling attendance as of age a; \mathbf{x}_{2ia}^r , the number of years of in-school work experience (given the relevant choice set r); x_{3ia} , the total number of years of part-time (non-school) work as of age a; x_{4ia} , the total number of years of full-time (non-school) work as of age a; x_{5ia} , the number of years in the military as of age a; x_{6ia} , the number of years spent in other activities as of age a;²⁰ $I_{ia}(R_{ia} > 1)$, an indicator equal to 1 if individual i has received a high school degree as of age a; and $I_{ia}(R_{ia} = 3)$, an indicator equal to 1 if individual i has received a bachelor's degree as of age a.

The experience variables in the vector, \mathbf{x}_{ia}^r , are accumulated from the starting age, $a_0 =$ 192 in months (i.e., age 16) to age a - 1.²¹ The first element of \mathbf{x}_{ia}^r is the accumulated years of attendance in school-related activities:

$$x_{1ia} = \frac{1}{12} \sum_{\ell=a_0}^{a-1} d_{i\ell 1} + d_{i\ell 2},$$
(3)

which corresponds to the years-of-schooling variable used in the wage returns literature originating with Mincer (1974)²² The in-school work experience vectors, \mathbf{x}_{jia}^{r} , j = 2, are

²⁰This residual category includes home production as well as unemployment.

²¹For now, we suppress the r superscript from the activity indicators d_{ilj}^r .

²²In the specification of the activity-specific value functions below, we define x_{1ia} slightly differently, as only the sum of $d_{i\ell 1}$.

defined as follows. In-school work experience before high school graduation is a scalar equal to the number of years spent working in high school since a_0 , $x_{2,HS,ia}$. For individuals who graduate from high school, the vector for in-school work while in college (or graduate school) contains two elements: the number of years working while in high school, $x_{2,HS,ia}$, and the number of years spent working while in college or graduate school, $x_{2,COL,ia}$. That is:

$$\mathbf{x}_{2ia}^{r} \equiv \begin{cases} x_{2,HS,ia} & \text{if } R_{ia} = 1\\ (x_{2,HS,ia}, x_{2,COL,ia}) & \text{if } R_{ia} > 1, \end{cases}$$
(4)

where

$$x_{2,HS,ia} = \frac{1}{12} \sum_{\ell=a_0}^{a-1} d_{i\ell 2}$$
$$x_{2,COL,ia} = \frac{1}{12} \sum_{\ell=a_{HS_i}}^{a-1} d_{i\ell 2} \text{ if } R_{ia} > 1,$$

and where a_{HS_i} is the age of graduation from high school. Finally, the remaining experience variables in \mathbf{x}_{ia}^r are defined as:

$$x_{jia} = \frac{1}{12} \sum_{\ell=a_0}^{a-1} d_{i\ell j}, j = 3, ..., 6.$$
 (5)

4.3 Wages

Let W_{iaj} denote the potential hourly wage rate that individual *i* would realize at age *a* if he were to choose activity *j*, *j* = 2, 3, 4. We assume that W_{iaj} is determined by the individual's accumulated human capital, or skills, H_{ia} , as of the beginning of age *a*, measured in efficiency units; the occupation-specific skill price P_{iaj} per efficiency unit that varies across the local labor market in which *i* resides at age *a*;²³ and idiosyncratic shocks, denoted by $e^{\varepsilon_{iaj}}$, that are unanticipated by the individual:

$$W_{iaj} = P_{iaj} H_{ia} e^{\varepsilon_{iaj}},\tag{6}$$

 $^{^{23}}$ See Moretti (2011) for a survey of models of local labor markets.

so that the log of wages, denoted by w_{iaj} , is given by the following linear function:

$$w_{iaj} = p_{iaj} + h_{ia} + \varepsilon_{iaj}$$

$$= w^{e}_{iaj} + \varepsilon_{iaj},$$
(7)

where $p_{iaj} \equiv \ln P_{iaj}$, $h_{ia} \equiv \ln H_{ia}$, and $w_{iaj}^e \equiv p_{iaj} + h_{ia}$ is *i*'s expected log wage at age *a*, i.e., the wage that *i* expects to get if he chooses activity *j*. We assume that p_{iaj} is the following function of the conditions of the local labor market in which *i* resides at age *a*, \mathbf{m}_{ia} :

$$p_{iaj} = \beta_{0j} + \boldsymbol{\beta}_{\mathbf{m}} \mathbf{m}_{ia}.$$
 (8)

We further assume that the (log of the) individual's stock of human capital, h_{ia} , is determined by some observed personal characteristics, e.g., one's birth year, race, etc., denoted by the vector \mathbf{z}_i , the individual's accumulated schooling and work experience and degree completion, \mathbf{x}_{ia}^r , and the individual's unobserved characteristics, $\boldsymbol{\xi}_i$, which are broken out into elements pertaining to the individual's cognitive (ξ_{1i}) and other (non-cognitive) abilities (ξ_{2i}):

$$h_{ia} = \boldsymbol{\beta}_{\mathbf{z}} \mathbf{z}_i + \boldsymbol{\beta}_{\mathbf{x}} g\left(\mathbf{x}_{ia}^r\right) + \beta_{\xi 1 j} \xi_{1i} + \beta_{\xi 2 j} \xi_{2i}.$$
(9)

It follows that

$$w_{iaj} = w_{iaj}^{e} + \varepsilon_{iaj},$$

$$= \beta_{0j} + \beta_{\mathbf{m}} \mathbf{m}_{ia} + \beta_{\mathbf{z}} \mathbf{z}_{i} + \beta_{\mathbf{x}} g\left(\mathbf{x}_{ia}^{r}\right) + \beta_{\xi 1 j} \xi_{1i} + \beta_{\xi 2 j} \xi_{2i} + \varepsilon_{iaj},$$
(10)

where $g(\cdot)$ contains: (i) a cubic polynomial in all types of accumulated experience;²⁴ (ii) pairwise interactions between school experience and each of the work experience variables (work in school, part-time work and full-time work); and (iii) indicators for having graduated high school and for having graduated college (see also Heckman et al., 2006).

One of our primary interests is in obtaining consistent estimates of the parameters in (10). As we make clear below, the central obstacle is that the elements of \mathbf{x}_{ia}^r are endogenous unless

 $^{^{24}}$ See also Belzil and Hansen (2002) who estimate the returns to schooling using an extended Mincerian specification in which they relax the assumption that wages are linear in the number of years of schooling.

one conditions on the unobserved factors, $\boldsymbol{\xi}_i$. We now develop the nature of that linkage through the sequences of activity choices individual *i* makes over his life cycle.

4.4 Activity-specific value functions

Let the value function for individual *i* who is of age *a* and who engages in activity *j* (from choice set *r*) be denoted by V_{iaj}^r . These value functions depend on the elements of the individual's information set at age *a*, namely, personal characteristics, \mathbf{z}_i , family background characteristics, \mathbf{f}_i , local college characteristics at age 16, $\mathbf{c}_{i,16}$, local labor market characteristics at age *a*, \mathbf{m}_{ia} , accumulated school and work experiences at that age, \mathbf{x}_{ia}^r , and the individual's unobserved characteristics, $\boldsymbol{\xi}_i$.²⁵ For computational simplicity, we approximate the V_{iaj}^r 's as a sum of a linear function of these characteristics and interactions between \mathbf{x}_{ia}^r and \mathbf{z}_i :

$$V_{iaj}^{r} = \boldsymbol{\alpha}_{\mathbf{z}j}^{r} \mathbf{z}_{i} + \boldsymbol{\alpha}_{\mathbf{f}j}^{r} \mathbf{f}_{i} + \boldsymbol{\alpha}_{\mathbf{c}j}^{r} \mathbf{c}_{i,16} + \boldsymbol{\alpha}_{\mathbf{m}j}^{r} \mathbf{m}_{ia} + \boldsymbol{\alpha}_{\mathbf{x}j}^{r} b\left(\mathbf{x}_{ia}^{r}, \mathbf{z}_{i}\right) + \alpha_{\xi 1j}^{r} \xi_{1i} + \alpha_{\xi 2j}^{r} \xi_{2i} + \omega_{iaj}$$

$$= v_{iaj}^{r} + \omega_{iaj},$$
(11)

where $b(\cdot)$ contains: (i) a set of up to nine bin indicators for each type of accumulated experience; and (ii) linear interactions between race/ethnicity and each type of accumulated experience.²⁶ Finally, ω_{iaj} captures the idiosyncratic factors that affect the individual's value from choosing activity j at age a.

It follows that at each age a, individual i chooses the activity j_{ia}^{r*} from among the activities in the current choice set that yields the highest value:

$$j_{ia}^{r*} = \operatorname*{argmax}_{i} V_{iaj}^{r}.$$
(12)

²⁵See Table A.2 of Appendix A for a detailed description of these elements.

²⁶As an example of the bin indicators, we include a set of nine bins for the number of months of fultime work experience outside of school. The cut points for each of the bins occur at the following values: 12 months, 24 months, 36 months, 48 months, 60 months, 72 months, 84 months, and 96 months. While the choice of cut points for each experience is different, the cut points are constant across NLSY cohorts. Allowing the different types of experience to vary in this way allows us to estimate highly non-linear effects of experience on the decision to invest in different types of human capital. This non-linear relationship is necessary in order to match the observed data. All experience terms have nine bins except for military, which has five.

4.5 Unobserved skills

Our model incorporates two unobserved random factors representing the unobserved cognitive and other, non-cognitive abilities of individuals. To measure unobserved cognitive ability (ξ_{1i}), we use six subject tests from the ASVAB.²⁷ We chose to include these subjects because (*i*) each appears in both the NLSY79 and the NLSY97; and (*ii*) they are measure constructs typically thought to be associated with individuals' cognitive ability or skills. For each subject test *s*, the z-scored test score *y* for individual *i* is expressed as a linear function of personal characteristics \mathbf{z}_i and the cognitive ability ξ_{1i} , namely

$$y_{is} = \gamma_{0s} + \boldsymbol{\gamma}_{\mathbf{z}s} \mathbf{z}_i + \gamma_{\xi 1s} \xi_{1i} + \eta_{is}, \tag{13}$$

where η_{is} captures idiosyncratic variation in test scores not related to the cognitive ability or other test score determinants.²⁸

There is little overlap in the measures of non-cognitive traits across the two NLSY surveys.²⁹ Due to this data limitation, we are unable to include comparable measures of non-cognitive ability for both of our NLSY cohorts. For this reason, we rely on the panel nature of the data—along with exclusion restrictions to be discussed in the next section—to identify the residual ability factor ξ_{2i} . Thus, this second ability factor can be interpreted as non-cognitive in the sense that it captures all unobserved permanent person-specific determinants of the agent's wage and decision process that are orthogonal to the cognitive factor.

²⁷The six subject tests we use are: Arithmetic Reasoning, Coding Speed, Mathematics Knowledge, Numerical Operations, Paragraph Comprehension, and Word Knowledge. The frequently used AFQT score is a composite of all of these subjects except for Coding Speed and Mathematics Knowledge. Our six subject tests are the same as used by Heckman et al. (2018).

 $^{^{28}}$ The mean and standard deviation used to compute the z-scores are taken across both cohorts.

²⁹The NLSY79 contains the Rotter locus of control score and Rosenberg self-esteem scale for all individuals. These have been used in other studies as non-cognitive measures (Heckman et al., 2006b; Cunha et al., 2011). The NLSY97 does not collect information on any of these tests, but instead collects information on risky behavior such as school suspensions, sexual promiscuity and substance abuse. See, e.g., Aucejo and James (2019) who use school suspensions, fights, precocious sex, grade retention, substance abuse, and 8th grade GPA as non-cognitive measures.

5 Inference

In this section, we further characterize our econometric model and the strategy for estimating its parameters. In particular, we summarize the specification of the error structure of our model and the estimation procedure we employ. For now, we continue to not notationally distinguish between the NLSY79 and NLSY97, although we allow all of the parameters of our model to be cohort-specific and we explicitly examine the cross-cohort differences in the estimated marginal returns to schooling and work experiences. Finally, we also discuss the identification of the model.

5.1 Error structure

We assume that $\boldsymbol{\xi}_i$ is a person-specific vector of factors that is stochastically independent of the distributions of the observables, \mathbf{z}_i , \mathbf{f}_i , \mathbf{c}_i , \mathbf{m}_{ia} , and of the unobservables, $\boldsymbol{\omega}_{ia}$, $\boldsymbol{\varepsilon}_{ia}$, and $\boldsymbol{\eta}_i$, for all a and i.³⁰ At the same time, because the choice of past activities determines the accumulated experience in \mathbf{x}_{ia}^r it is not the case that the elements of this vector are independent of $\boldsymbol{\xi}_i$.

We further normalize, for both cohorts, the distribution of the unobserved factors $\boldsymbol{\xi}_i$ to be normally distributed with mean zero and identity covariance matrix. With respect to $\boldsymbol{\omega}_{ia}$, $\boldsymbol{\varepsilon}_{ia}$, and $\boldsymbol{\eta}_i$, respectively, we assume that they are mutually independent, are independently distributed both across ages and at each age a, and have mean zero and constant variances.³¹ That the vector of activity shocks $\boldsymbol{\omega}_{ia}$ is uncorrelated with $\boldsymbol{\varepsilon}_{ia}$ is the result of assuming that decisions about activities are made at each age a before the actual realizations of wages are known by individual i.

³⁰The assumption that individual effects $\boldsymbol{\xi}_i$ are independent of the observable characteristics and of the idiosyncratic shocks is very common in dynamic discrete choice models. See, among others, Taber (2001); Belzil and Hansen (2002); Hotz et al. (2002); Heckman et al. (2006b).

³¹In practice, some of these shocks may exhibit some degree of persistence over time. In our model, this feature would be at least partly accounted for by the time-invariant unobserved factor ξ_{2i} , which would then be interpreted as a mixture of non-cognitive skills and the persistent component of the shocks.

5.2 Likelihood function and estimation method

We assume that the idiosyncratic errors in the activity payoff functions, ω_{iaj} , have a Type I extreme value distribution so that the choice probability for any individual *i* at age *a* to choose activity *j* in choice set *r*, conditional on the unobserved factors $\boldsymbol{\xi}_i$, has the logistic form:

$$P_{iaj}^r = \frac{\exp\left(v_{iaj}^r\right)}{\sum_{k=1,\dots,J^r} \exp\left(v_{iak}^r\right)},\tag{14}$$

where, as defined in the first line of (11), v_{iak}^r is the component of the value function associated with activity k that is deterministic from individual i's viewpoint. Recall that v_{iak}^r depends on the unobserved factors $\boldsymbol{\xi}_i$, and on personal characteristics \mathbf{z}_i , family background characteristics \mathbf{f}_i , local college characteristics at age 16 $\mathbf{c}_{i,16}$, local labor market characteristics \mathbf{m}_{ia} as of age a, as well as accumulated school and work experiences \mathbf{x}_{ia}^r as of that age:

$$v_{iak}^{r} = \boldsymbol{\alpha}_{\mathbf{z}j}^{r} \mathbf{z}_{i} + \boldsymbol{\alpha}_{\mathbf{f}j}^{r} \mathbf{f}_{i} + \boldsymbol{\alpha}_{\mathbf{c}j}^{r} \mathbf{c}_{i,16} + \boldsymbol{\alpha}_{\mathbf{m}j}^{r} \mathbf{m}_{ia} + \boldsymbol{\alpha}_{\mathbf{x}j}^{r} b\left(\mathbf{x}_{ia}^{r}, \mathbf{z}_{i}\right) + \alpha_{\xi_{1j}}^{r} \xi_{1i} + \alpha_{\xi_{2j}}^{r} \xi_{2i}$$
(15)

Additionally, we assume that the idiosyncratic errors entering the wage function in (10) are normally distributed with zero mean and variance $\sigma_{w_j}^2$. Thus, the corresponding contribution to the likelihood, conditional on $\boldsymbol{\xi}_i = \boldsymbol{\xi}$, is given by:

$$\ell_{w_{iaj}} = \frac{1}{\sigma_{w_j}} \phi \left(\frac{w_{iaj} - \beta_{0j} - \boldsymbol{\beta}_{\mathbf{m}} \mathbf{m}_{ia} - \boldsymbol{\beta}_{\mathbf{z}} \mathbf{z}_i - \boldsymbol{\beta}_{\mathbf{x}} g \left(\mathbf{x}_{ia}^r \right) - \beta_{\xi j 1} \xi_1 - \beta_{\xi j 2} \xi_2}{\sigma_{w_j}} \right), \ j = 2, 3, 4,$$

where $\phi(\cdot)$ is the standard normal pdf.³²

We also assume that the idiosyncratic errors entering the ASVAB test score function in (13) are normally distributed with zero mean and variance $\sigma_{y_s}^2$. Thus the likelihood contribution, conditional on $\xi_{i1} = \xi_1$, is given by:

$$\ell_{y_{is}} = \frac{1}{\sigma_{y_s}} \phi\left(\frac{y_{is} - \gamma_{0s} - \boldsymbol{\gamma}_{\mathbf{z}s} \mathbf{z}_i - \gamma_{\xi s 1} \xi_1}{\sigma_{y_s}}\right).$$
(16)

 $^{^{32}}$ Recall that choice-set-specific intercepts are included in \mathbf{x}_{ia}^r through degree attainment dummies.

It follows that the (unconditional) log likelihood function is given by:

$$\log \mathcal{L}(\boldsymbol{\theta}) = \sum_{i} \log \int \mathcal{L}_{i}\left(\boldsymbol{\theta} \,|\, \boldsymbol{\xi}\right) f_{\boldsymbol{\xi}}(\boldsymbol{\xi}) d\boldsymbol{\xi},\tag{17}$$

where, conditional on $\boldsymbol{\xi}_i = \boldsymbol{\xi}$, the individual contribution to the likelihood is given by:

$$\mathcal{L}_{i}\left(\theta \,|\, \boldsymbol{\xi}\right) = \prod_{s} \ell_{y_{is}} \prod_{a} \prod_{r} \left[\prod_{j=1,5,6,7} (P_{iaj}^{r})^{d_{iaj}^{r}} \prod_{k=2,3,4} [P_{iak}^{r} \ell_{w_{iak}}]^{d_{iak}^{r}} \right]^{I(R_{ia}=r)},$$
(18)

with $\boldsymbol{\theta} \equiv (\boldsymbol{\alpha}', \boldsymbol{\beta}', \boldsymbol{\gamma}')', I(A)$ is the indicator function that is equal to one if A is true and zero otherwise, and $f_{\boldsymbol{\xi}}(\cdot)$ is the pdf of $\boldsymbol{\xi}$. In the analysis that follows, we **employ the assumption that** $\boldsymbol{\xi}$ is distributed multivariate normal and estimate the model via maximum likelihood.³³

5.3 Identification

In this section, we discuss the identification of key features of the model. Note that we cannot readily identify the effects of endogenously-determined schooling and work experiences on wages or subsequent school and work decisions by relying on standard instrumental variables techniques, as finding valid instruments for these sequences of past choices over individuals' careers is very challenging, if not impossible.³⁴ Herein, we deal with dynamic selection into schooling and work experiences by explicitly modeling the underlying choice process, controlling for person-specific unobserved factors as in Cameron and Heckman (1998, 2001) and Heckman et al. (2006b). In what follows, we discuss how identification is achieved within

³³In practice, we use quadrature to approximate the integral of the likelihood function. Specifically, we use Gaussian quadrature with seven points of support for each dimension of the integral. As starting values for the parameters, we use perturbed point estimates from the specification of the model without unobserved heterogeneity. Finally, standard errors are computed using the estimated cluster-robust asymptotic covariance matrix, which accounts for within-person serial correlation of the error terms.

³⁴A number of papers in the returns to schooling literature follow Card (1995) and use presence of a college (or geographical distance to college) in the local labor market at age 14 as an instrument for college attendance (see, among others, Kane and Rouse, 1995; Kling, 2001; Currie and Moretti, 2003). Kane and Rouse (1995) also use tuition at local public four-year colleges at age 17. See Card (2001) for a survey. Unlike these papers, our goal is to estimate the wage returns to schooling, along with the different types of work experiences. As such, our approach does not lend itself to a standard instrumental variables strategy. Importantly though, we build on this literature and use density of local colleges as well as flagship tuition as exclusion restrictions in our model.

this econometric framework.

First, one can use the results of Hu and Shum (2012) to show nonparametric identification of the conditional choice probabilities, P_{iaj}^r . This identification result relies on the first-order Markov structure, and the resulting dynamic exclusion restrictions implied by our dynamic discrete choice model.³⁵ Under the assumption that the idiosyncratic preference shocks are distributed following a Type 1 extreme value assumption, the conditional value functions are then identified (up to a reference alternative) by inverting the conditional choice probabilities, P_{iaj}^r .

We now turn to the unobserved individual factors, (ξ_1, ξ_2) , and the outcome equations. Aside from the aforementioned dynamic exclusion restrictions, we also impose two types of exclusion restrictions which play an important role in identifying the covariate effects in the outcome equations, as well as the distribution and the returns to these unobserved factors (i.e. the factor loading parameters). First, we impose the restriction that the non-cognitive factor, ξ_2 , does not enter the ASVAB test score equations. This results in a system of six continuous and selection-free measurements that are dedicated to the first factor ξ_1 . From this set of measurements, the factor loadings associated with ξ_1 are identified from the covariances of the ASVAB test scores. Having identified the factor loadings, the distributions of ξ_1 and of the idiosyncratic performance shocks are identified in a second step using deconvolution arguments (Kotlarski, 1967).

Note, however, that we cannot directly use the same arguments for the second unobserved factor ξ_2 , as we do not have access to a set of selection-free continuous measurements dedicated to that factor. In our model, the continuous outcomes (wages) along with the discrete choices of activities play the role of noisy measurements of the underlying factors. Two main aspects of the data and the model are then central to the identification argument. First, the panel dimension of the data—in particular, the autocorrelation of wages and choices (conditional on observed covariates)—along with the correlation between these two sets of variables and the ASVAB measurements play an important role in identifying the returns to unobserved factors (ξ_1, ξ_2) in the outcome and choice equations. Second, as we discuss below,

³⁵In our model, choices and outcomes today only depend on the past sequence of choices through the accumulated experiences at the beginning of the period, once we condition on unobserved heterogeneity.

exclusion restrictions in the form of variables affecting individual decisions but excluded from the potential wages are key to addressing the underlying selection issue. Having identified the distribution of ξ_1 in the previous step, these exclusion restrictions make it possible in turn to identify the distribution of the unobserved factor ξ_2 using standard deconvolution arguments applied to the distribution of potential wages.

In practice, we exclude the vector of family background characteristics, \mathbf{f}_i , and local college characteristics at age 16, \mathbf{c}_i , from the wage equations (see, for similar restrictions regarding family background characteristics, Willis and Rosen, 1979, Taber, 2001, Hotz et al., 2002, Heckman et al., 2006b, and Card, 1995, and Kane and Rouse, 1995, who use exclusion restrictions based on the existence of a local college and tuition at local colleges, respectively). In addition, while we allow current period local labor market conditions, \mathbf{m}_{ia} , to directly impact wages, *past* local labor market variables do not enter the wage equation. The assumption that these characteristics affect wages only indirectly through past activity choices that determine the accumulated experience variables that enter the wage equations is central in identifying the distribution of potential wages and the wage equation parameters from the realized wages of the selected group of labor market participants.

6 Results

In this section, we present the results of our estimation. We first focus on how the specification of the log wage function impacts the measured returns to schooling and work experiences. In particular, we highlight the importance of generalizing the classic Mincer model by controlling for observable characteristics and selection on unobservable factors. Second, we discuss how the returns to schooling and work experiences, as well as the returns to unobserved ability as measured by our factor loading estimates, have changed across cohorts. Note that our final and preferred specification – the full heterogeneity specification – consists of our wage equations, ability equations and activity-choice equations. The estimates and standard errors for the full set of parameters for this specification are provided in Appendix D (online). We do not discuss the results of our activity-choice equations as this part of our preferred specification are included solely for the purposes of dealing with the selection of wages and the endogeneity of experience terms in the wage equation.³⁶ Rather, in this section we focus on the results on returns to schooling, work-related experiences, and unobserved skills in our wage equations.

6.1 Specifications of wage equations

Our empirical framework allows us to estimate wage returns to various types of school and work experiences by accounting for the endogeneity of schooling and work choices. As described above, our most comprehensive (and preferred) specification of the wage equation includes non-linear functions of school and work experience variables, indicators for graduation attainment and type of work, personal background characteristics, local labor market conditions, and measures for unobserved cognitive and non-cognitive abilities. We compare this specification with other models, specifically an augmented version of the classic Mincerian (1974) model where we control for high school and college graduation dummies and type of work dummies in addition to Mincer's quadratic in potential work experience, and an augmented version of the flexible specification introduced in Heckman et al. (2006a). While our version of the latter specification (referred to as augmented HLT hereafter) is parametric, it remains very flexible and includes controls for race, ethnicity, high school and college graduation, cubic polynomials in school and potential work experience, as well an interaction between schooling and potential experience.

The classic Mincerian model restricts log wages to be a linear function of the number of

 $^{^{36}}$ As noted in Section 5.3, we imposed a number of exclusion restrictions to identify our model. To assess their importance, we used the following metrics of the "statistical" and "economic" significance of these restrictions. With respect to statistical significance, we first examined what fraction of each exclusion restriction has a t-statistic larger than 1.96 in magnitude in each activity value function in (11). Across all activity choices, we found that just under one-third of both the background characteristics, \mathbf{f}_i , and local college characteristics, \mathbf{c}_i , were individually statistically significant. The local labor market conditions, \mathbf{m}_{ia} , were statistically significant in just under half of all the choice equations. Second, we conducted a likelihood ratio test of the joint significance of the college characteristics, \mathbf{c}_i , in our preferred model. This test yielded p-values close to zero for both cohorts, thus rejecting the hypothesis that the college characteristics are not important. To assess the economic significance of imposing these restrictions, we compared the impact of a one-standard-deviation increase in each exclusion restriction with a one-standard-deviation increase in the unobserved cognitive factor. To do this, we calculated the ratio of marginal effects of each of these variables in each of the activity value functions, each multiplied by its respective standard deviation (note that the unobserved cognitive factor has a standard deviation of one) and determined the percentage of these ratios that exceeded one. By this criteria, we found that 40% of the \mathbf{f}_i variables are economically significant (ratios exceeded 1.0) versus 30% of the \mathbf{m}_{ia} variables and 20% of the \mathbf{c}_i variables.

years of schooling and a quadratic function of the number of years of potential experience (defined as age – years of schooling – 6). Focusing on earnings, Heckman et al. (2006a) consider a more flexible specification that uses indicators for each year of schooling and each year of potential experience and allow returns to potential experience to vary by levels of schooling: high school dropout, high school graduate, some college, and college graduate. They find that the internal rate of return to schooling changes drastically with the introduction of non-linearities in schooling as well as non-separability between schooling and work experiences.

Our preferred specification differs from Heckman et al. (2006a) in three notable ways.³⁷ First, we include controls for personal background characteristics, in particular nativity (native-born or foreign-born), birth year, and local labor market conditions (employment rate and income per capita).³⁸ The second difference relates to work experience. This is one of our main contributions, as we use *actual* work experience accumulated at each age a instead of *potential* work experience, distinguishing between in-high-school, in-college, part-time, full-time, and military work experiences. Third, and importantly, we control for selection into schooling and work experience levels based on unobservable characteristics. We do so by allowing the cognitive-skill factor, ξ_1 , and the other non-cognitive skill factor, ξ_2 , to enter the wage equation.

We estimate the model for all individuals *i* in our dataset at each age *a* for which we observe them, up to and including age 35. We report the marginal effects associated with these different specifications and different variables of interest in Tables 6 and 7.³⁹ For the accumulated experience variables, \mathbf{x}_{ia}^r , i.e., schooling, work, military, etc., that enter the model in a nonlinear fashion, we evaluate the marginal effects using the average experience vector at age 29 ($\mathbf{\bar{x}}_{29}^r$),⁴⁰ but using parameters that are estimated from the entire age range.

³⁷As noted above, our analyses and those in Heckman et al. (2006a) do differ in two other notable ways. First, we focus on wages, while Heckman et al. (2006a) focused on earnings. Second, Heckman et al. (2006a) focused on the estimation of internal rates of return to schooling, while we focus on estimating marginal rates of return to schooling, as well as to actual work experiences.

³⁸Note that we do not directly control for the ASVAB test scores as these are used as noisy measurements for the cognitive factor, ξ_1 , which also enters the wage equation.

³⁹The full estimation results are reported in Appendix D (online).

⁴⁰We use this age because (i) it is an age by which most people have completed schooling, and (ii) it is the last age for which we have a full-sized cross section in our panel.

We also report marginal effects at age 32 in Tables C.3 and C.4 of Appendix C (online).⁴¹ Finally, our generalized Mincerian specification allows the marginal effects to vary over the life cycle through changes in the amount of accumulated experiences.

6.2 Returns to schooling

Table 6 presents estimates of the returns to schooling for our various specifications. Panel (a) displays the return to an additional year of schooling, while Panels (b) and (c) present estimates of "sheepskin effects" for graduating from high school and college, respectively.⁴² We report six different specifications on separate rows within each panel, beginning with raw premia and ending with our preferred specification which accounts for selection on observable and unobservable characteristics.

We start by comparing results for the augmented Mincerian and augmented HLT specifications, which are reported in rows (ii) and (iii), respectively. There is virtually no difference in the estimated returns to high school graduation [Panel (b)] across these two specifications, while the estimated returns to college graduation [Panel (c)] for the augmented HLT specification are about 2–3 percentage points lower than for the augmented Mincer specification. In contrast, the estimated returns to an additional year of schooling [Panel (a)] are slightly larger in the augmented HLT specification compared to the augmented Mincer, with the return to an extra year of schooling based on the former specification being about 2 points higher in the NLSY79 but nearly identical for the NLSY97.

In row (iv) of the panels in Table 6, we extend the above specification to include controls for local labor market conditions (displayed in Table C.2), birth year and nativity. Adding these variables slightly reduces the estimated returns to a year of schooling by 1.1 points for the NLSY79 cohort, and 0.4 points for the NLSY97. This specification also results in smaller returns to college degrees, by about 2 points each. And while there is no impact on the high school sheepskin effect for the NLSY79, adding these controls does reduce it further for the

 $^{^{41}}$ Consistent with Section 3, when we say age 29 (32), we are actually referring to the month before their 29th (32nd) birthday.

 $^{^{42}}$ Because we include dummy variables for high school and college degrees in our wage equations, our estimates of the return to schooling measure the return to any additional year of schooling, including to years in which a degree is completed, but they do not capture any non-linearities associated with degree completion.

NLSY97.

In row (v) of the panels in Table 6, we present estimates for the wage equation specification in which we replace potential work experience with actual work experience. Note that these estimates do not account for the potential endogeneity of work experience. Relative to the estimates in the preceding rows of the Panels, the estimates of returns to an extra year of schooling, high school and college graduation are all substantially lower. Taken together, these findings suggest that a sizable part of the estimated returns to schooling and sheepskin effects in the previous rows actually may be attributable to returns to the work experiences individuals acquire during their transition from school to work. We examine the role of school-related work experiences in Section 6.3 below.

The estimated returns to schooling and degrees for the last and preferred specification we consider, which accounts for selection on unobservable characteristics, are found in row (vi) of the panels in Table 6. This specification accounts for selection by jointly estimating the wage equation with our choice model and ability measurement equations, as described in Section 5.2. Compared to the estimates of our model that do not control for unobserved selection in row (v), accounting for selection reduces the returns to college degrees for both cohorts [Panel (c)], reduces the returns to high school for NLSY79 only [Panel (b)] but increases the returns to each additional year of schooling [Panel (a)]. Importantly, the returns to schooling and degrees in row (vi) are much lower than the unadjusted ones in row (i) of each Panel.

Finally, we compare how our estimates of the returns to schooling when one controls for selection in row (vi) have changed across these two cohorts. These changes are recorded in the last column of Table 6 for each panel. We find that the estimated returns to an additional year of schooling [Panel (a)] and the return to a high school degree [Panel (b)] have both increased across the two NLSY cohorts, though the latter is not statistically significant at standard levels. Our estimation results also indicate that the return to college degree [Panel (c)] has been essentially stable across these two cohorts. Finally, an important takeaway from this table is that the cross-cohort changes in the returns to education in row (vi) are quite different than the corresponding changes for the estimated returns produced by the other specifications, suggesting that the selection processes that govern educational and early work experiences have changed over the past 20 years. Overall, we find that accounting for the accumulated actual work experiences of young men and their endogeneity not only affects one's conclusions about the magnitudes of returns to years of schooling and to degrees, but also alters the conclusions one draws about how these returns have changed across cohorts.

6.3 Returns to work experiences

We next consider the returns to various types of work experiences and how they have changed across cohorts. Estimates for the returns to work experiences are presented in Table 7. Panel (a) displays results for the wage equation specification that corresponds to controlling for actual work experience and was used to produce row (v) in Table 6, while Panel (b) is based on the selection-corrected wage equation used to produce the returns to education estimates in rows (vi) of Table 6. The first marginal effect of both Panel (a) and Panel (b) of Table 7 (Year of School) is the same as rows (v) and (vi) of Panel (a) of Table 6, respectively. The second and third marginal effects of both Panels display the additional returns to working while in high school and college, respectively. The next two display the estimated returns to part- and full-time out-of-school work experience. Finally, the remaining two rows report the total return to college graduation (assuming four years to degree) under two scenarios. The first one is the pure return to college, which is equal to four times the return to any schooling plus the college sheepskin effect. The second one accounts for the additional wage return to in-college work, and is computed by adding to the previous return the product of the average number of years worked while in college and the return to an additional year of working while in college. As before, the estimated returns to the various types of work experiences are measured at age 29, with additional results at age 32 included in Table C.4 of Appendix C (online).

We begin with the returns to working while in school. Consider, first, the returns to working while in college. For this type of work experience, we find sizable returns, with 6% for the NLSY79 and 4 for the NLSY97. Both are higher than those to any other form of work experience we consider or, for that matter when we do not account for unobserved heterogeneity, the return to an extra year of pure schooling. However, when we account for unobserved heterogeneity, the return vanishes in the NLSY97 but stays the same in the NLSY79. This is notable considering the findings of the previous table: controlling for unobservable heterogeneity resulted in a substantial *increase* in the return to a year of school in the NLSY97. Thus, for the NLSY97, much of the perceived return to in-college work experience is actually the result of selection (on unobservables) in acquiring those work experiences. Regardless, with and without controls for unobserved heterogeneity, we see a decrease across cohorts in the return to working in college.

With respect to the returns to working while in high school, Table 7 shows that they are lower in every instance than the corresponding returns to working while in college. Without controlling for unobserved heterogeneity, the estimated returns to working while in high school initially are 3% in the NLSY79 and negligibly small in the NLSY97. After controlling for unobserved heterogeneity, these returns become negligibly small for the NLSY79 cohorts and negative (-2.4%) for the NLSY97 cohorts. Our finding of a negligible or negative return to working while in high-school is consistent with the findings of Hotz et al. (2002), who also estimate the wage returns to early work experiences using data from the NLSY79. Also, we once again see a decrease across cohorts in the returns to in-school work, this time for work in high school.

With respect to non-school-related work experiences, we estimate an increase in the return to an additional year of full-time experience, from 2% in the NLSY79 to 4% in the NLSY97. This return is robust to the inclusion of unobserved heterogeneity. In contrast, the estimated return to part-time, non-school-related experience is quite sensitive to controls for unobserved heterogeneity. The returns are about -5% without considering unobserved heterogeneity, but become -2% in the NLSY79 and -1% in the NLSY97 thereafter. In short, it appears that those individuals who tend to accumulate part-time, non-school work experience are negatively selected on unobservables so that failure to control for unobserved heterogeneity greatly exaggerates the detrimental consequences of early part-time work on subsequent wages of young men.

Finally, as mentioned above, the last two rows of each panel report the total return to four-year college, with and without accounting for in-college work experience. In both cases, the estimated returns only show a modest and non-significant increase across cohorts when ignoring unobservable selection. However, results from our preferred specification that controls for unobserved heterogeneity point to significant and quantitatively sizable increases across cohorts in the returns to four-year college. Namely, we find that this return is 12.9 (6.6) percentage points higher in the NLSY97 when one ignores (accounts for) in-college work experience. Furthermore, these results imply that the cohort improvement in the return to college plus work in college is solely the result of the across-cohort increases in the return to the additional 4 years of attending college and in acquiring a college degree, given the negligible return to work while in college found for the NLSY97 cohorts.

Taken together, our results indicate that the returns to work experiences, especially those for in-school and part-time out-of-school work experiences, differ substantially depending on whether one controls for unobserved heterogeneity, which has significant impacts on the implied cross-cohort changes in the returns to work experiences.

6.4 Returns to unobserved skills

Finally, we examine the contribution of the unobserved factors to the wages of young men. Table 8 contains estimates of the cognitive and non-cognitive factor loadings for the full-time wage equation for each of the three cohorts. Recall that the distribution of the factors is multivariate normal with mean zero and identity covariance matrix. It follows that these estimates can be interpreted as the change in log wages due to a one standard deviation increase in the corresponding unobserved factor, holding fixed all observable characteristics and the other dimension of unobserved ability.

We find that the wage return to cognitive ability (or cognitive skills) of young men decreased across cohorts from 15% to 11% for a one-standard-deviation increase in cognitive skills. On the other hand, assuming stability in the distribution of non-cognitive skills across cohorts, the return to these skills increased from 9 to 16% for a one-standard-deviation increase in the cognitive factor.⁴³ Interestingly, our results are consistent with Castex and Dechter (2014) and Deming (2017), who also examine the wage returns to skills between the NLSY79 and NLSY97 cohorts and find that the returns to cognitive skills (as measured by AFQT) have diminished across the two. Additionally, Deming (2017) also finds an increasing

⁴³If the distribution of non-cognitive skills changed across cohorts, then an increase in our factor loadings will instead reflect an increase in the variance of non-cognitive skills.

return to non-cognitive skills across both cohorts.

7 Conclusion

This paper examines the returns to both schooling and various forms of work experience for men from two birth cohorts, using longitudinal data from the 1979 and 1997 panels of the National Longitudinal Survey of Youth. To deal with the endogenous nature of accumulated work experience and schooling and its potential impact on estimating the wage returns to these different types of experience, we develop and estimate a dynamic model of the schooling and work decisions that individuals make in their early adulthood and how they affect subsequent wages for each of these cohorts. Building on previous work by Heckman et al. (2006a), our empirical framework generalizes the classic Mincerian model of returns to human capital in four main ways: (i) it allows for a more flexible function of schooling and work experiences, rather than the original linear-quadratic specification; (ii) it incorporates additional controls for an individual's background as well as degree sheepskin effects; (iii) it accounts for individual-specific multi-dimensional unobservable heterogeneity to correct for the endogeneity of past human capital investment decisions; and, importantly, (iv) it moves away from the concept of potential experience by differentiating among and controlling for various forms of work experience that were actually attained by the individual.

Based on the estimates from this model, we produce several key findings. First, the failure of previous estimates to account for the influences of accumulated actual work experience and its endogenous determination results in sizable overstatements of the wage returns to degree attainment, and, for the 79 cohort, of the wage returns to schooling. Second, we find that the returns to various types of school and work experiences significantly differ between cohorts. For example, we find that the returns to an extra year of schooling increased across cohorts, while the returns to an additional year of in-school work decreased. The latter finding could partly reflect the changing nature of high-school and college employment, with students often times holding low-skill jobs that do not significantly improve their future employment prospects, as noted by Baum and Ruhm (2016). Although the return to a college degree has remained stable, the overall return to four years of college has increased. Third, consistent with Deming (2017), we find that the return to unobservable cognitive skills has declined, while the return to other non-cognitive skills may have increased.

Overall, our analysis highlights the need to account for dynamic selection and changes in composition of skills when analyzing secular changes in the wage returns to skills. An interesting future research avenue would be to build on our analysis and estimate a dynamic generalized Roy model to quantify the relative importance of cross-cohort changes in wage returns to skills and non-wage components—in particular, increasing costs of college education—in explaining changes in the acquisition of schooling and early work experiences.

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Tables

Variable	NLSY79	NLSY97	97–79
Demographics:			
White:	0.79	0.71	-0.08***
Black:	0.15	0.16	0.01
Hispanic:	0.07	0.14	0.07^{***}
Foreign Born:	0.04	0.05	0.01
Family Characteristics:			
Mother's education:	11.76	12.91	1.14***
Father's education:	12.17	12.98	0.81^{***}
Family Income:	32.86	33.58	0.71
Share lived in female-headed HH:	0.12	0.23	0.11***
AFQT:			
Median of AFQT score	0.37	0.44	0.07
Standard Deviation of AFQT score:	0.96	0.97	0.01***
N at age 29	3,464	3,569	

Table 1: Demographic, Family and AFQT characteristics

Notes: Education is highest grade completed by the respondent's biological parents. Family income is in 1,000's of 1982-84\$. All demographic and family variables are measured as of the first survey round in both cohorts except female-headed household, which is from age 14 in NLSY97. The AFQT distribution is normalized so that the distribution including all cohorts is mean-zero, variance one. For median AFQT score, the significance comes from bootstrapped standard errors of the median (500 replications). For standard deviations of AFQT score, the significance comes from two-tailed F-tests of the ratio of the variances. Statistics weighted by NLSY sampling weights. Significance reported at the 1% (***), 5% (**), and 10% (*) levels. Sample size for statistical analysis varied for some variables due to missing values (see Table A.1 of Appendix A for more on sample creation.)

Variable	NLSY79	NLSY97	97 - 79
Schooling Attainment:			
% HS Dropouts	0.11	0.09	-0.01**
% HS Graduates	0.29	0.25	-0.05***
% Some College	0.38	0.40	0.03^{**}
% College Graduates	0.22	0.26	0.04^{***}
Graduation Probabilities and Tim	e to Degree	•	
Pr(Start College)	0.60	0.66	0.06^{***}
Pr(Grad College Start Col)	0.37	0.39	0.02
Time to College Degree (years)	5.08	5.49	0.41^{***}

Table 2: Schooling attainment and graduation probabilities at age 29

Notes: *HS Graduates* included in this table are those who have either a GED or a diploma but who never attended college. *Some College* are those who attended college but did not graduate with a 4-year degree. *College Graduates* are those who graduated with a 4-year degree. As in Bound et al. (2012), time to college degree is defined as the number of calendar months between high school graduation and 4-year college graduation. Statistics utilize NLSY sampling weights. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Variable	NLSY79	NLSY97	97–79
Overall:			
Total months of schooling	40.53	52.24	11.71***
Total months of work experience	116.85	118.61	1.76^{**}
By Type:			
Months of school only	19.52	20.64	1.12**
Months of work in high school	9.41	11.84	2.43^{***}
Months of work in college	11.60	19.76	8.16***
Months of part-time work	13.39	14.30	0.91^{***}
Months of full-time work	82.45	72.71	-9.74***

Table 3: Changes in school and work experience

Notes: Monthly activities are displayed in Table 5 and fully described in Appendix A. Months of an activity as of age a is the sum of incidence in that activity from age 16 to current age, a. Thus, the average individual in the NLSY79 had a total of 40.5 months of school after turning 16. Statistics weighted by NLSY sampling weights. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Table 4: Changes in wage premia for experience and educational attainment at age 29 for full-time workers

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Variable	NLSY79	NLSY97	97 - 79
Average log wage premia for one	more year	r of experie	ence:
Year of School	0.066	0.056	-0.010*
Work in HS	0.055	0.031	-0.024
Work in college	0.089	0.067	-0.022***
Early college work	0.137	0.065	-0.072**
Late college work	0.073	0.068	-0.005
Work part time	-0.091	-0.128	-0.037***
Work full time	0.005	0.002	-0.003
Average log wages by highest edu	cational at	ttainment:	
HS Dropouts	1.81	1.75	-0.05
HS Graduates	1.95	1.92	-0.03
Some College	2.09	1.99	-0.10***
College Graduates	2.35	2.30	-0.05*
Average log wage premia for high	hest educat	ional attai	nment:
High School Wage Premium	0.14	0.16	0.02
Some College Wage Premium	0.14	0.07	-0.07***
College Wage Premium	0.41	0.38	-0.03***

Notes: The sample is conditional on working full-time. Estimates for work experience are coefficients from separate bivariate regressions of log wage on each cumulative experience term. The exception is for the breakout of Work in college. Early college work refers to work done as a Freshman or Sophomore (no more than 16 months of college, ie 4 semesters), while *Late college work* refers to work done as a Junior or Senior (more than 16 months of college). The premia for these two experiences are from a joint regression. HS Graduates included in this table are those who never attended college. Some College are those who attended college but did not graduate with a 4-year degree. College Graduates are those who graduated with a 4-year degree. High School Wage Premium refers to the log wage difference between HS Graduates and HS Dropouts. Some College Wage Premium refers to the log wage difference between Some College and HS Graduates. College Wage Premium refers to the log wage difference between College Graduates and HS Graduates. Statistics weighted by NLSY sampling weights. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Activity (j^r)	Description
$R_{ia} = 1$ (Pre-	High School Graduate):
1	School only, no HS diploma or GED
2	Work in school, no HS diploma or GED
3	Work PT (no school), no HS diploma or GED
4	Work FT (no school), no HS diploma or GED
5	Military, no HS diploma or GED
6	Other, no HS diploma or GED
7	Graduate from HS at age a (Attainment Activity)
$R_{ia} = 2$ (High	School Graduate):
1	School only, has HS diploma or GED
2	Work in school, has HS diploma or GED
3	Work PT (no school), has HS diploma or GED
4	Work FT (no school), has HS diploma or GED
5	Military, has HS diploma or GED
6	Other, has HS diploma or GED
7	Graduate with bachelor's degree at age a (Attainment Activity)
$R_{ia} = 3$ (Colle	ege Graduate):
1	School only, has bachelor's degree
2	Work in school, has bachelor's degree
3	Work PT (no school), has bachelor's degree
4	Work FT (no school), has bachelor's degree
5	Military, has bachelor's degree
6	Other, has bachelor's degree

Table 5: Definitions of Activities by Educational Choice Sets

Notes: The creation of our school and work activity variables is fully described in Appendix A.

Specification	NLSY79	NLSY97	97 - 79
Panel (a): Return to Year of Schooling			
(i) Raw	0.077^{***}	0.072^{***}	-0.005
(ii) Augmented Mincer	0.036***	0.043***	0.006
(iii) Augmented HLT (2006)	0.054^{***}	0.047^{***}	-0.006
(iv) + Background	0.043***	0.043***	0.000
(v) + Actual Exper	0.006	0.006	-0.001
(vi) + Unobserved	0.014^{**}	0.046^{***}	0.032***
Panel (b) : Return to Graduation from	HS (Sheepskin)		
(i) Raw	0.191***	0.197^{***}	0.007
(ii) Augmented Mincer	0.101***	0.074^{***}	-0.027
(iii) Augmented HLT (2006)	0.102^{***}	0.073^{***}	-0.029
(iv) + Background	0.104***	0.067^{***}	-0.037**
(v) + Actual Exper	0.073***	0.049^{***}	-0.023
(vi) + Unobserved	0.033**	0.049^{***}	0.016
Panel (c) : Return to Graduation from	College (Sheepskin)		
(i) Raw	0.401***	0.417^{***}	0.016
(ii) Augmented Mincer	0.299***	0.294^{***}	-0.005
(iii) Augmented HLT (2006)	0.261***	0.274^{***}	0.013
(iv) + Background	0.238***	0.257^{***}	0.019
(v) + Actual Exper	0.204***	0.227^{***}	0.023
(vi) + Unobserved	0.187^{***}	0.187^{***}	0.001

Table 6: Measures of wage returns to schooling across specifications, at age 29

Notes: The Panels of Table 6 are:

Panel (a) is the wage return at age 29 of one extra year of schooling.

Panel (b) is the wage premium (sheepskin effect) of earning a high school diploma relative to not earning a diploma.

Panel (c) is the wage premium (sheepskin effect) of earning a bachelor's degree relative to a high school diploma.

The rows in each Panel contain:

(i) Indicates raw premium, controlling only for type-of-work dummies (in-school, part-time, full-time).

(ii) Adds to (i) a quadratic in potential experience (= age - years of schooling - 6), a linear term for years of schooling, and degree dummies.

(iii) Increases flexibility similar to Heckman et al. (2006a). Adds a cubic in schooling, a linear interaction between schooling experience and potential experience, and adds race/ethnicity indicators. Additionally, id-iosyncratic error variance is allowed to be heteroskedastic by type of work.

(iv) Adds personal background characteristics and local labor market conditions.

(v) Replaces potential experience in (iv) with actual work experience type (in-school, part-time, full-time), military experience, and other experience. Also includes linear interaction between schooling and actual work experiences, except for military and other.

(vi) Adds person-specific random factors to account for dynamic selection. See Eq. (10)

All standard errors are clustered at the individual level and are on the order of 0.005-0.020. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Variable NLSY79 NLSY97 97-79 Panel (a): Full model without controlling for selection (0.008) (0.007) (0.011) Work in HS 0.029*** -0.005 -0.034*** (0.010) (0.008) (0.013) Work in HS 0.025*** -0.044*** -0.021 (0.012) (0.008) (0.014) Work PT Only -0.52*** -0.49*** 0.003 (0.007) (0.006) (0.009) Work FT Only 0.023*** 0.041*** 0.018*** (0.001) (0.002) (0.002) (0.002) (0.002) 4 years of college (no work) 0.229*** 0.249*** 0.020 4 years of college (+ work) 0.292*** 0.317*** 0.025 (0.025) (0.021) (0.033) Panel (b): Full model controlling for selection Years of School 0.014*** 0.046**** 0.032*** (0.005) (0.001) -0.024*** -0.024*** 0.022*** 0.032*** (0.005) (0.001) -0.006**** 0.001) 0.006*							
Years of School 0.006 0.006 0.006 -0.001 Work in HS 0.029^{***} -0.005 -0.034^{***} (0.010) (0.008) (0.013) Work in College 0.065^{***} 0.044^{***} -0.021 (0.012) (0.008) (0.014) Work PT Only -0.052^{***} -0.049^{***} 0.003 (0.007) (0.006) (0.009) Work FT Only 0.023^{***} 0.041^{***} 0.018^{***} (0.001) (0.002) (0.002) (0.022) 4 years of college (no work) 0.229^{***} 0.249^{***} 0.020 4 years of college (+ work) 0.292^{***} 0.317^{***} 0.025 (0.025) (0.021) (0.033) 0.014^{***} 0.046^{***} 0.032^{***} Years of School 0.014^{***} 0.046^{***} 0.032^{***} $0.005)$ (0.001) Work in HS -0.001 -0.024^{***} -0.024^{***} 0.001 0.066^{****} (0.005) (0.001) (0.003) (0.001) 0.0011 0.002^{***} (0.010) (0.003) (0.006) (0.001) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} (0.015) (0.010) (0.010) (0.018) 4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{****}	Variable	NLSY79	NLSY97	97 - 79			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Panel (a): Full model without controlling for selection						
Work in HS 0.029^{***} -0.005 -0.034^{***} Work in College 0.065^{***} 0.044^{***} -0.021 (0.012) (0.008) (0.014) Work PT Only -0.052^{***} -0.049^{***} 0.003 (0.007) (0.006) (0.009) Work FT Only 0.023^{***} 0.041^{***} 0.018^{***} (0.001) (0.002) (0.002) (0.002) 4 years of college (no work) 0.229^{***} 0.249^{***} 0.020 (0.022) (0.020) (0.029) (0.029) 4 years of college (+ work) 0.292^{***} 0.317^{***} 0.025 (0.025) (0.021) (0.033) $0.007)$ Panel (b): Full model controlling for selectionyears of School 0.014^{***} 0.046^{***} (0.005) (0.004) (0.007) 0.024^{***} -0.024^{**} (0.008) (0.005) (0.010) $0.011)$ Work in College 0.066^{***} 0.001 -0.066^{***} (0.010) (0.003) (0.006) 0.0011 Work FT Only -0.020^{***} -0.008^{**} 0.012^{**} (0.001) (0.001) (0.001) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} (0.015) (0.010) (0.018) (0.015) (0.010) (0.015) (0.010) (0.018) (0.015) $(0.016)^{***}$	Years of School	0.006	0.006	-0.001			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.008)	(0.007)	(0.011)			
Work in College 0.065^{***} 0.044^{***} -0.021 Work PT Only (0.012) (0.008) (0.014) Work PT Only -0.052^{***} -0.049^{***} 0.003 (0.007) (0.006) (0.009) Work FT Only 0.023^{***} 0.041^{***} 0.018^{***} (0.001) (0.002) (0.002) (0.020) 4 years of college (no work) 0.229^{***} 0.249^{***} 0.020 4 years of college (+ work) 0.292^{***} 0.317^{***} 0.025 (0.025) (0.021) (0.033) Panel (b): Full model controlling for selection (0.005) (0.004) (0.007) Work in HS -0.001 -0.024^{***} -0.024^{**} (0.008) (0.005) (0.010) (0.011) Work in College 0.066^{***} 0.0001 -0.066^{***} (0.010) (0.003) (0.006) (0.002) Work FT Only -0.22^{***} -0.008^{**} 0.012^{**} (0.005) (0.003) (0.006) (0.006) Work FT Only -0.22^{***} -0.008^{**} 0.012^{**} (0.005) (0.003) (0.006) (0.006) Work FT Only -0.22^{***} 0.39^{***} 0.17^{***} (0.005) (0.003) (0.006) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} (0.015) (0.010) (0.018) (0.015) (0.010) (0.015) (0.010) $(0.0$	Work in HS	0.029***	-0.005	-0.034***			
(0.012) (0.008) (0.014) Work PT Only -0.052^{***} -0.049^{***} 0.003 (0.007) (0.006) (0.009) Work FT Only 0.023^{***} 0.041^{***} 0.018^{***} (0.001) (0.002) (0.002) (0.002) 4 years of college (no work) 0.229^{***} 0.249^{***} 0.020 4 years of college (+ work) 0.292^{***} 0.317^{***} 0.025 (0.022) (0.020) (0.029) (0.025) (0.021) (0.033) Panel (b): Full model controlling for selectionYears of School 0.014^{***} 0.046^{***} 0.032^{***} (0.005) (0.004) (0.007) Work in HS -0.001 -0.024^{***} -0.024^{**} (0.010) (0.005) (0.010) (0.011) Work PT Only -0.020^{***} -0.008^{**} 0.012^{**} (0.005) (0.003) (0.006) (0.006) Work FT Only 0.022^{***} 0.337^{***} 0.12^{***} (0.001) (0.001) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 4 years of college (no work) 0.242^{***} 0.372^{***} 0.066^{***}		(0.010)	(0.008)	(0.013)			
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Work in College	0.065^{***}	0.044^{***}	-0.021			
Work FT Only (0.007) $0.023***$ (0.006) $0.041***$ (0.009) $0.011***$ 4 years of college (no work) 0.229^{***} 0.229^{***} 0.249^{***} 0.020 (0.002) 4 years of college (no work) 0.229^{***} 0.229^{***} 0.317^{***} 0.025 0.029 4 years of college (+ work) 0.292^{***} 0.025 0.317^{***} 0.025 0.025 Panel (b): Full model controlling for selection Years of School 0.014^{***} 0.005 0.046^{***} 0.007 Work in HS -0.001 -0.024^{***} 0.0068^{***} 0.0024^{***} 0.0001 0.012^{***} 0.0005 Work in College 0.066^{***} 0.0001 0.0011 0.0043 0.011 Work FT Only -0.020^{***} 0.0055^{***} 0.012^{**} 0.0005^{***} Work FT Only 0.022^{***} 0.0005^{***} 0.017^{***} 0.001^{***} 0.001 0.002^{***} 0.039^{***} 0.017^{***} 0.001 0.001 0.001 0.001 0.002 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} 0.015^{***} 4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{***}		(0.012)	(0.008)	(0.014)			
Work FT Only 0.023^{***} 0.041^{***} 0.018^{***} (0.001)(0.002)(0.002)4 years of college (no work) 0.229^{***} 0.249^{***} 0.020 4 years of college (+ work) 0.292^{***} 0.317^{***} 0.025 (0.021)(0.023)(0.021)(0.033)Panel (b): Full model controlling for selectionYears of School 0.014^{***} 0.046^{***} 0.032^{***} (0.005)(0.004)(0.007)Work in HS -0.001 -0.024^{***} -0.024^{**} (0.008)(0.005)(0.010)Work in College 0.066^{***} 0.0011 -0.066^{***} (0.010)(0.0043)(0.011)Work FT Only -0.020^{***} -0.008^{**} 0.012^{**} (0.005)(0.003)(0.006)Work FT Only 0.022^{***} 0.39^{***} 0.17^{***} (0.001)(0.001)(0.001)(0.002)4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} (0.015)(0.010)(0.018)4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{***}	Work PT Only	-0.052^{***}	-0.049^{***}	0.003			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			· · · ·	(/			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Work FT Only	0.023^{***}		0.018^{***}			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		()		(0.002)			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 years of college (no work)	0.229^{***}	0.249^{***}	0.020			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				(0.029)			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 years of college $(+ \text{ work})$	0.292^{***}	0.317^{***}	0.025			
Years of School 0.014^{***} 0.046^{***} 0.032^{***} Work in HS (0.005) (0.004) (0.007) Work in College -0.001 -0.024^{***} -0.024^{**} Work in College 0.066^{***} 0.0001 -0.066^{***} Work PT Only -0.020^{***} -0.008^{**} $0.011)$ Work PT Only -0.020^{***} -0.008^{**} 0.012^{**} Work FT Only 0.022^{***} 0.039^{***} 0.017^{***} Work FT Only 0.22^{***} 0.39^{***} 0.017^{***} Work FT Only 0.242^{***} 0.372^{***} 0.129^{***} Work FT Only 0.242^{***} 0.372^{***} 0.129^{***} Work FT Only 0.242^{***} 0.372^{***} 0.129^{***} Work FT Only 0.242^{***} 0.372^{***} 0.066^{***}		(0.025)	(0.021)	(0.033)			
Years of School 0.014^{***} 0.046^{***} 0.032^{***} Work in HS (0.005) (0.004) (0.007) Work in College -0.001 -0.024^{***} -0.024^{**} Work in College 0.066^{***} 0.0001 -0.066^{***} Work PT Only -0.020^{***} -0.008^{**} $0.011)$ Work PT Only -0.020^{***} -0.008^{**} 0.012^{**} Work FT Only 0.022^{***} 0.039^{***} 0.017^{***} Work FT Only 0.22^{***} 0.39^{***} 0.017^{***} Work FT Only 0.242^{***} 0.372^{***} 0.129^{***} Work FT Only 0.242^{***} 0.372^{***} 0.129^{***} Work FT Only 0.242^{***} 0.372^{***} 0.129^{***} Work FT Only 0.242^{***} 0.372^{***} 0.066^{***}	Panel (b): Full model controlling	for selection					
Work in HS -0.001 -0.024^{***} -0.024^{**} Work in College 0.066^{***} 0.005 (0.010) Work in College 0.066^{***} 0.0001 -0.066^{***} (0.010) (0.0043) (0.011) Work PT Only -0.020^{***} -0.008^{**} 0.012^{**} Work FT Only 0.022^{***} 0.039^{***} 0.017^{***} (0.001) (0.001) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} 4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{***}				0.032***			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.005)	(0.004)	(0.007)			
Work in College 0.066^{***} 0.0001 -0.066^{***} Work in College 0.066^{***} 0.0001 -0.066^{***} Work PT Only -0.020^{***} -0.008^{**} 0.012^{**} Work FT Only 0.022^{***} 0.003 (0.006) Work FT Only 0.022^{***} 0.039^{***} 0.017^{***} (0.001) (0.001) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} (0.015) (0.010) (0.018) 4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{***}	Work in HS	-0.001	-0.024***	-0.024**			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.008)	(0.005)	(0.010)			
Work PT Only -0.020^{***} -0.008^{**} 0.012^{**} Work PT Only (0.005) (0.003) (0.006) Work FT Only 0.022^{***} 0.039^{***} 0.017^{***} (0.001) (0.001) (0.002) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} (0.015) (0.010) (0.018) 4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{***}	Work in College	0.066***	0.0001	-0.066***			
Work FT Only (0.005) 0.022^{***} (0.003) 0.039^{***} (0.006) 0.017^{***} (0.001) 4 years of college (no work) 0.242^{***} 0.372^{***} 0.372^{***} 0.129^{***} (0.015) (0.010) (0.018) 4 years of college (+ work) 0.306^{***} 0.372^{***} 0.066^{***}		(0.010)	(0.0043)	(0.011)			
Work FT Only 0.022^{***} 0.039^{***} 0.017^{***} 4 years of college (no work) 0.242^{***} 0.372^{***} 0.129^{***} 4 years of college (+ work) 0.306^{***} 0.372^{***} $0.018)$	Work PT Only	-0.020***	-0.008**	0.012**			
$\begin{array}{c} (0.001) & (0.001) & (0.002) \\ 4 \text{ years of college (no work)} & 0.242^{***} & 0.372^{***} & 0.129^{***} \\ (0.015) & (0.010) & (0.018) \\ 4 \text{ years of college (+ work)} & 0.306^{***} & 0.372^{***} & 0.066^{***} \end{array}$		(0.005)	(0.003)	(0.006)			
$\begin{array}{cccc} 4 \text{ years of college (no work)} & 0.242^{***} & 0.372^{***} & 0.129^{***} \\ & & (0.015) & (0.010) & (0.018) \\ 4 \text{ years of college (+ work)} & 0.306^{***} & 0.372^{***} & 0.066^{***} \end{array}$	Work FT Only	0.022***	0.039***	0.017^{***}			
$ \begin{array}{c} (0.015) & (0.010) & (0.018) \\ 4 \text{ years of college (+ work)} & 0.306^{***} & 0.372^{***} & 0.066^{***} \end{array} $		(0.001)	(0.001)	(0.002)			
4 years of college $(+ \text{ work})$ 0.306^{***} 0.372^{***} 0.066^{***}	4 years of college (no work)	0.242***	0.372^{***}	0.129^{***}			
		(0.015)	(0.010)	(0.018)			
(0.018) (0.011) (0.021)	4 years of college $(+ \text{ work})$	0.306***	0.372^{***}	0.066***			
		(0.018)	(0.011)	(0.021)			

Table 7: Measures of wage returns of work experiences at age 29 for selection- & non-selection-correction specifications

Notes: The two Panels of Table 7 are:

Panel (a) refers to wage equation marginal effects without correcting for selection on unobservables. This is specification (v) ("+Actual Exper") in Table 6.

Panel (b) refers to wage equation marginal effects correcting for selection on unobservables. This is specification (vi) ("+Unobserved") in Table 6.

Marginal effects are evaluated at the cohort-specific sample averages at age 29 for 1 additional year of each component of experience. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

[&]quot;4 years of college (no work)" is calculated as the sum of the marginal effect of "Years of School" (times 4), plus the "Return to Graduation from College (Sheep-skin)" (from the relevant specification in Table 6).

[&]quot;4 years of college (+ work)" is calculated as the sum of 4 years of college (no work) plus the marginal effect of "Work in College" (times the average years spent working in college from Table 3).

Variable	NLSY79	NLSY97	97 - 79
Cognitive	0.148^{***} (0.003)	0.111^{***} (0.002)	-0.037^{***} (0.003)
Non-Cognitive	$\begin{array}{c} (0.000) \\ 0.091^{***} \\ (0.003) \end{array}$	0.161^{***} (0.002)	(0.000) (0.070^{***}) (0.004)

Table 8: Full-time wage factor loading estimates

Notes: Factor loading estimates are from the specification found in the "+ Unobserved" row in Table 6. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Appendix A Activity Definitions, Sample Selection and Variable Lists for Model Components (for publication)

In the analysis, we make use of a monthly activity variable, which takes on six possible values in each of three different educational attainment sets. Each set contains the following choice alternatives: not working while in school; working while in school; working part-time (not in school); working full-time (not in school); military service; and all other activities (a residual category that includes home production, unemployment and minimal employment). The activity variable thus takes on 18 possible primary values. For example, work in school in the first choice set would be work during high school. In addition to these activities, the individual can transition to another choice set by graduating either high school or college. This results in two transition values that the activity variable can take on, one for each of the first two choice sets, regardless of any other activity. The full set of possibilities is displayed in Table 5.

The monthly activity variable within each choice set (excluding the transition choices) is constructed as follows:

- School only (while in high school or in college) if the person was in school but did not report any weeks worked and reported less than 8 total hours worked in the month;
- Working while in school (high school or college) if the person was in school and worked at least one week in the month or at least 8 hours in the month;
- Part-time working if the person was not in school nor working full-time nor military (below), but worked at least one week in the month or at least 42 hours in the month;
- Full-time working if the person was not in school nor military, reported working all weeks of the month, and worked 35 or more hours per week;
- Military if the person spent at least one week in the military, spent at least as many weeks in the military as working, and was not enrolled in school;
- Other activities if the person did not fall into any of the above categories.

Category	NLSY79	NLSY97
Starting persons	12,686	8,984
Drop females	6,283	4,385
Drop older birth cohorts ^a	$1,\!698$	0
Drop non-race oversamples ^b	843	0
Drop other race	0	40
Resulting No. of persons (males)	3,862	4,559
Survey Waves	18	17
Survey person-years ^c	$73,\!645$	$81,\!955$
Add retrospective data years ^d	$3,\!595$	843
Potential person-years	77,240	82,798
Potential person-months	926,880	983,460
Drop missing interview months ^e	72,701	200,916
Final No. of person-months	854,179	$792,\!652$
Potential wage observations ^g	651,281	538,648
Drop self-employed wages	$31,\!246$	$32,\!252$
Drop outlying wages ^h	8,563	33,780
Drop non-reported wages	$134,\!681$	$50,\!480$
Final wage observations	476,791	422,136
Final No. of persons ^f	3,852	4,443
Ave. No. of months per person	221.7	178.4
Max. No. of months per person	240	240
No. of persons in age 16 cross-section	3,852	4,443
No. of persons in age 29 cross-section	$3,\!485$	$3,\!596$
No. of persons in age 32 cross-section	3,324	2,754
No. of persons in age 35 cross-section	3,265	501

Table A.1: Sample Selection

Notes:

^a Birth years 1957 and 1958.

^b Oversamples of military personnel and disadvantaged white individuals are both excluded from the analysis.

^c This refers to the number of calendar years available before an individual turns 36. For some survey waves, the reference period is two years, rather than one year.

 $^{^{\}rm d}$ This refers to adding retrospective data for years 1974-1978 or 1993-1996 (if applicable).

 $^{^{\}rm e}$ This refers to dropping any right-censored missing interview spells or any observations during or after a spell of 3+ missed interviews.

^f This refers to anyone appearing at least once between ages 16 and 36.

^g Potential wage observations refers to the the number of person-months choosing a work alternative.

 $^{^{\}rm h}$ We drop wages below \$2 and above \$50 (in 1982-84\$).

Variable	Wage	ASVAB	Choice
Individual background (\mathbf{z}_i)			
race dummies	\checkmark	\checkmark	\checkmark
birth cohort dummies	\checkmark	\checkmark	\checkmark
foreign born	\checkmark	\checkmark	\checkmark
Family background (\mathbf{f}_i)			
mother's education (including missing indicator)			\checkmark
father's education (including missing indicator)			\checkmark
family income (including missing indicator)			\checkmark
female-headed household at 14			\checkmark
Local colleges (\mathbf{c}_i)			
presence of 4-year colleges in county			\checkmark
number of 4-year colleges in county (per 100,000 people)			\checkmark
tuition at public flagship			\checkmark
Local labor market (\mathbf{m}_{ia})			
county income per capita	\checkmark		\checkmark
county employment rate	\checkmark		\checkmark
Experience (\mathbf{x}_{ia}^r)			
months of school	\checkmark		
months of only school			\checkmark
months working in HS	\checkmark		\checkmark
months working in college	\checkmark		\checkmark
months working part-time	\checkmark		\checkmark
months working full-time	\checkmark		\checkmark
months in the military	\checkmark		\checkmark
months in other activities	\checkmark		\checkmark
experience and race interactions			\checkmark
work experience and any school interactions	\checkmark		
quadratic and cubic experience terms	\checkmark		
binned experience terms			\checkmark
Unobserved Factors $(\boldsymbol{\xi}_i)$			
Cognitive factor (ξ_{1i})	\checkmark	\checkmark	\checkmark
Non-cognitive factor (ξ_{2i})	\checkmark		\checkmark

Table A.2: Variables included in Wage, ASVAB and Choice Equations

Appendix B Data Creation (Online Appendix)

This section details our method for constructing comparable variables across both NLSY surveys, as well as how each variable was created. We divide our discussion into the following groups: personal and family background characteristics and cognitive ability; local labor and education market conditions; earnings and educational degrees; and efforts undertaken to maximize comparability across surveys. Our school and work activity variables, as well as the details of our sample selection, can be found in Appendix A.

B.1 Personal and family characteristics and cognitive ability

Personal characteristics observed in the data include the individual's Armed Services Vocational Aptitude Battery (ASVAB) subject test scores, race, nativity, and birth year. Family background characteristics in the data are not time-varying and are measured at the first interview. They include the education level of each of the individual's biological parents, family income at the start of the survey, maternal co-residence status and whether or not the household had a female head when the respondent was of a certain age (age at first interview for the NLSY79 and age 14 for the NLSY97). For the parental education and family income variables, we also include a dummy indicating if the value was missing, as a way to maximize our sample size.

B.2 Local labor market and higher education conditions

We observe local labor and education market conditions at the county level. These include the percentage of all residents who are employed in the individual's county of residence (which we call the "employment rate"),⁴⁴ the income per worker in the county, the existence and number of bachelor's-degree-granting institutions in the county (per 100,000 people), and the tuition of the flagship university in the individual's state.⁴⁵ As mentioned, we create these labor market and higher-education variables using the restricted-access Geocode supplement of each of the NLSY surveys, combined with data from the Census Bureau, Bureau of

 $^{^{44}}$ "Employment rate" is the number of employees reported by employers divided by population. Because individuals can hold more than one job, the numbers are much higher than the corresponding national employment-population ratio, which has ranged between 57% and 64% over the time period we consider.

⁴⁵Tuition for all cohorts is in constant 2010 dollars.

Labor Statistics (BLS), Bureau of Economic Analysis (BEA), and Integrated Postsecondary Education Data System (IPEDS).

B.3 Wages and educational degrees

The wage in our analysis is defined as the average hourly wage across all jobs worked in the month, weighted by the hours worked at each job. Wages are deflated using the CPI-U with a base year of 1982-84. We only include wages observed during employment spells (i.e. we discard wages reported when the individual was in the military or did not report working). We trim outliers by dropping wages outside of the range \$2-\$50 in 1982-84 dollars.

Educational attainment has three values, based on whether or not an individual holds a high school diploma or bachelor's degree. Individuals with neither are classified as high school dropouts. Those who hold a GED or a high school diploma are considered high school graduates. Those who hold a bachelor's degree are considered college graduates.

B.4 Comparability across surveys and cohorts

As discussed previously, the two NLSY surveys are quite comparable in their methodology and the types of information they collect. However, there are some key differences between them, which we discuss here.

Foremost among the differences is the age of respondents at the first interview. In the first wave of the NLSY79, respondents are aged 14–21 (aged 14–19 for the birth cohorts we use), in contrast to the NLSY97 where respondents are aged 12–16 at the first interview. This difference in starting ages makes it more difficult to create comparable pre-interview work and schooling histories, and ASVAB test scores.⁴⁶ As much as possible, we attempt to construct comparable measures of each variable of interest. As a compromise, we start measuring work history at age 16 and discard the oldest group of individuals in the NLSY79 (i.e. those who were 20 or older at the time of the first interview).

 $^{^{46}}$ We follow the procedure outlined in Altonji et al. (2012) to equate the ASVAB scores for both test-taking age and medium. This procedure is outlined at length in Altonji et al. (2009).

B.5 Cohort year-age

Table B.1 maps age and calendar year for each birth year in both the NLSY79 and NLSY97 cohort. Our panel stops when the individual turns 36 years old, or at their last seen observation. Further, there are a small number of individuals in the NLSY97 who complete their Round 17 interview in 2016. In these cases, we include their data in the year 2016 but we exclude 2016 from Table B.1 since this is not the typical scenario.

Calendar Age Year

Table B.1: Cohort chart

Appendix C Additional Descriptives and Structural Estimates at Age 32 (Online Appendix)

In this section we report additional descriptive analyses. We also reproduce our main analysis from the body of the paper, evaluated at age 32 instead of age 29.

C.1 Comparison with CPS

In the table below, we compare the NLSY-aged birth cohorts in both the NLSY and CPS. We can only compare on a few dimensions, since the CPS does not collect information on family background or work history.

Table C.1: Demographics and Schooling Attainment of NLSY-Aged Cohorts in NLSY and	nd
CPS	

		NLSY			CPS	
Variable	NLSY79	NLSY97	97–79	NLSY79	NLSY97	97 - 79
Demographics:						
White:	0.79	0.71	-0.08***	0.78	0.68	-0.10***
Black:	0.15	0.16	0.01	0.11	0.11	0.00
Hispanic:	0.07	0.14	0.07***	0.11	0.21	0.10^{***}
Schooling attainment by	y age 29:					
% HS Dropouts	0.11	0.09	-0.01**	0.15	0.12	-0.03***
% HS Graduates	0.29	0.25	-0.05***	0.39	0.31	-0.08***
% Some College	0.38	0.40	0.03**	0.21	0.27	0.06^{***}
% College Graduates	0.22	0.26	0.04^{***}	0.25	0.31	0.06^{***}
N	3,464	3,569		$20,\!358$	$12,\!260$	

Notes: *HS Graduates* included in this table are those who have either a GED or a diploma but who never attended college. *Some College* are those who attended college but did not graduate with a 4-year degree. *College Graduates* are those who graduated with a 4-year degree. Statistics weighted by CPS sampling weights. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

C.2 Local labor market and higher education conditions

The two cohorts we analyze differ in the economic conditions they faced over the early parts of their life cycles. We report differences in local labor market conditions at various ages, as well as access to and costs of college at age 16; the previous literature has found that these conditions play a crucial role in the human capital accumulation process (see also, e.g., Cameron and Heckman, 1998; Hotz et al., 2002). Table C.2 gives information about how our two county-level local labor market variables, employment rate and income per worker, evolve over the life cycle, as well as measures of four-year college availability and prices.⁴⁷ At all ages except 29, employment rate and income per worker grow across each cohort. By age 29, the employment rates are nearly equalized across cohorts, likely reflecting the effect of the Great Recession on the NLSY97 cohort.⁴⁸ There is a large and significant gap in income per worker between the two cohorts.

With regards to the higher-education landscape, the number of four-year colleges per 100,000 in the individual's age-16 county of residence dropped from 2.12 to 1.83. At the same time, tuition at the state flagship university in the individual's age-16 state of residence (deflated to 1982-84 dollars) more than doubled, from \$3,300 to \$6,800.

C.3 Structural estimates evaluated at age 32

Tables C.3 and C.4 are constructed in the same way as our main structural results (Tables 6–7) except that the marginal effects are evaluated at age 32.

Most of the marginal effects in Tables 6 and C.3 are independent of age, and thus these two tables are almost identical. However, the marginal effects in Tables 7 and C.4 are all age-dependent. Yet even here the marginal effects are remarkably similar. The one that is the most different is the marginal effect of a return to working full-time, where the return to a year of full-time work experience is 1 log point smaller. This is true with and without controlling for selection as well as for both cohorts. Thus, the change in the return across cohorts is mostly the same. There is also a difference in the return to schooling in NLSY79, where it is 0.5 log points higher at age 32. This is most noticeable in the return to Total College (4 year) in Panel (b), which is now more than 2 log points higher in NLSY79 at age 32, resulting in a smaller increase across cohorts in the return to Total College (4 year).

⁴⁷Note that "Employment rate" is used abusively here since it is computed as, for the respondent's county of residence at each age, the number of employees reported by employers divided by total population. Multiple job holding, among other reasons, can cause this number to diverge from the canonical employment rate measure.

⁴⁸The NLSY97 cohort reached age 29 in 2009 through 2013.

Variable	NLSY79	NLSY97	97 - 79			
County Employment Ra	ite:					
At age 16	0.74	0.88	0.14^{***}			
At age 22	0.78	0.88	0.09^{***}			
At age 26	0.83	0.88	0.04^{***}			
At age 29	0.85	0.86	0.01^{**}			
County Ave. Income pe	r Worker:					
At age 16	12.40	16.67	4.27***			
At age 22	13.39	18.13	4.73^{***}			
At age 26	14.69	18.68	3.99^{***}			
At age 29	15.14	18.83	3.69^{***}			
Number of four-year col	Number of four-year colleges in county (per 100,000 people):					
At age 16	2.12	1.83	-0.30***			
Share of youth with at l	east one fou	r-year colle	ege in county:			
At age 16	0.85	0.82	-0.03***			
Average tuition of state	Average tuition of state flagship university:					
At age 16	3.31	6.81	3.50***			

Table C.2: Local labor market conditions at various ages and college access

Notes: Employment rate in the respondent's county of residence at each age is the number of employees reported by employers divided by population. Income per worker is the total wage and salary income of the county (in 1,000's of 1982-84\$) divided by the number of workers. Number of colleges and college tuition are computed as of 1988 and 2005 for the respective NLSY panels. That is, we report college information for years 1988 and 2005 in the youth's county of residence at age 16. Summary statistics weighted by NLSY sampling weights. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Specification	NLSY79	NLSY97	97 - 79
Panel (a): Return to Year of Schoolin	ng		
(i) Raw	0.077***	0.072^{***}	-0.005
(ii) Mincer	0.036***	0.042^{***}	0.006
(iii) HLT (2006)	0.067^{***}	0.051^{***}	-0.016**
(iv) + Background	0.055^{***}	0.046***	-0.010
(v) + Actual Exper	0.011	0.004	-0.007
(vi) + Unobserved	0.019^{***}	0.046^{***}	0.028***
Panel (b) : Return to Graduation from	n HS (Sheepskin)		
(i) Raw	0.191***	0.197^{***}	0.007
(ii) Mincer	0.101***	0.074^{***}	-0.027
(iii) HLT (2006)	0.102***	0.073^{***}	-0.029
(iv) + Background	0.104***	0.066***	-0.038**
(v) + Actual Exper	0.073***	0.049***	-0.023
(vi) + Unobserved	0.033^{**}	0.049^{***}	0.016
Panel (c) : Return to Graduation from	n College (Sheepskin)		
(i) Raw	0.401***	0.417^{***}	0.016
(ii) Mincer	0.299***	0.294^{***}	-0.005
(iii) HLT (2006)	0.261***	0.274^{***}	0.013
(iv) + Background	0.238***	0.257^{***}	0.019
(v) + Actual Exper	0.204***	0.227^{***}	0.023
(vi) + Unobserved	0.187^{***}	0.187^{***}	0.001

Table C.3: Measures of wage returns to schooling across specifications, at age 32

Notes: The Panels of Table 6 are:

Panel (a) is the wage return at age 32 of one extra year of schooling.

Panel (b) is the wage premium (sheepskin effect) of earning a high school diploma relative to not earning a diploma.

Panel (c) is the wage premium (sheepskin effect) of earning a bachelor's degree relative to a high school diploma.

The rows in each Panel contain:

(i) Indicates raw premium, controlling only for type-of-work dummies (in-school, part-time, full-time).

(ii) Adds to (i) a quadratic in potential experience (= age - years of schooling - 6), a linear term for years of schooling, and degree dummies.

(iii) Increases flexibility similar to Heckman et al. (2006a). Adds a cubic in schooling, a linear interaction between schooling experience and potential experience, and adds race/ethnicity indicators. Additionally, id-iosyncratic error variance is allowed to be heteroskedastic by type of work.

(iv) Adds personal background characteristics and local labor market conditions.

(v) Replaces potential experience in (iv) with actual work experience type (in-school, part-time, full-time), military experience, and other experience. Also includes linear interaction between schooling and actual work experiences, except for military and other.

(vi) Adds person-specific random factors to account for dynamic selection. See Eq. (10)

All standard errors are clustered at the individual level and are on the order of 0.005-0.020. Significance reported at the 1% (***), 5% (**), and 10% (*) levels.

Variable	NLSY79	NLSY97	97 - 79
Panel (a): Full model without a	controlling for	selection	
Years of School	0.011	0.004	-0.007
	(0.009)	(0.008)	(0.012)
Work in HS	0.028***	-0.006	-0.034***
	(0.010)	(0.008)	(0.013)
Work in College	0.062^{***}	0.042^{***}	-0.020
	(0.011)	(0.008)	(0.014)
Work PT Only	-0.048***	-0.045***	0.003
	(0.007)	(0.005)	(0.009)
Work FT Only	0.012^{***}	0.030***	0.018^{***}
	(0.001)	(0.002)	(0.002)
4-year college (no work)	0.250^{***}	0.244^{***}	-0.006
	(0.022)	(0.020)	(0.030)
4-year college (+ work)	0.317^{***}	0.304^{***}	-0.013
	(0.025)	(0.021)	(0.033)
Panel (b): Full model controllir	ng for selection		
Years of School	0.019***	0.046***	0.028***
	(0.006)	(0.005)	(0.007)
Work in HS	0.000	-0.026***	-0.026***
	(0.008)	(0.005)	(0.009)
Work in College	0.064***	0.003	-0.061***
	(0.009)	(0.004)	(0.010)
Work PT Only	-0.018***	-0.008***	0.010*
	(0.005)	(0.003)	(0.006)
Work FT Only	0.009***	0.028***	0.019***
-	(0.001)	(0.002)	(0.002)
4-year college (no work)	0.261***	0.373***	0.112***
	(0.015)	(0.011)	(0.018)
4-year college (+ work)	0.330***	0.376***	0.047**
, ,	(0.017)	(0.011)	(0.021)

Table C.4: Measures of wage returns of work experiences at age 32 for selection- & non-selection-correction specifications

Notes: The two Panels of Table C.4 are:

Panel (a) refers to wage equation marginal effects without correcting for selection on unobservables. This is specification (v) ("+Background") in Table 6.

Panel (b) refers to wage equation marginal effects correcting for selection on unobservables. This is specification (vi) ("+Unobserved") in Table 6.

[&]quot;4-year College (no work)" is calculated as the sum of the marginal effect of "Years of School" (times 4), plus the "Return to Graduation from College (Sheepskin)" (from the relevant specification in Table 6).

[&]quot;4-year College (+ work)" is calculated as the sum of 4-year college (no work) plus the marginal effect of "Work in College" (times the average years spent working in college).

Appendix D Complete listing of parameter estimates (Online Appendix)

The following table provides a complete list of the parameter estimates and their estimated standard errors for the preferred specification of our model, i.e., the one that controlled for unobserved heterogeneity.

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work in High School	black	-0.433	0.080	-0.496	0.060
Work in High School	hispanic	-0.224	0.088	-0.511	0.071
Work in High School	birthYear1	-0.248	0.079	0.029	0.048
Work in High School	birthYear2	0.083	0.064	0.112	0.047
Work in High School	birthYear3	0.213	0.065	0.163	0.047
Work in High School	birthYear4	0.178	0.064	0.089	0.047
Work in High School	birthYear5	0.098	0.066		
Work in High School	foreignBorn	0.185	0.079	0.007	0.057
Work in High School	employment percentage	0.105	0.097	0.275	0.082
Work in High School	income per capita	0.012	0.010	-0.004	0.004
Work in High School	schoolOnlyBlack	-0.110	0.080	-0.027	0.066
Work in High School	schoolOnlyHisp	-0.109	0.091	0.150	0.073
Work in High School	workK12Black	0.144	0.129	0.238	0.106
Work in High School	workK12Hisp	0.332	0.143	0.041	0.114
Work in High School	workPTBlack	0.642	0.169	0.870	0.430
Work in High School	workPTHisp	-0.021	0.214	2.047	0.397
Work in High School	workFTBlack	-0.141	0.110	-1.130	0.469
Work in High School	workFTHisp	-0.022	0.113	1.311	0.800
Work in High School	otherBlack	-0.208	0.086	0.089	0.134
Work in High School	otherHisp	-0.111	0.085	-0.068	0.164
Work in High School	hgcMoth	0.063	0.027	0.028	0.028
Work in High School	hgcMothSq	-0.029	0.013	-0.014	0.011
Work in High School	m_hgcMoth	0.284	0.163	0.084	0.180
Work in High School	hgcFath	0.055	0.024	0.075	0.026
Work in High School	hgcFathSq	-0.025	0.010	-0.028	0.011
Work in High School	m_hgcFath	0.108	0.145	0.454	0.163
Work in High School	famInc	0.139	0.029	0.016	0.017
Work in High School	famIncSq	-0.113	0.028	-0.023	0.011
Work in High School	m_famInc	0.309	0.069	-0.026	0.048
Work in High School	femaleHeadedHH14	0.048	0.055	-0.028	0.038
Work in High School	liveWithMom14	0.125	0.073	0.110	0.050
Work in High School	numBAzero	0.003	0.065	-0.020	0.045
Work in High School	numBAperCapita	-0.019	0.013	-0.009	0.005
Work in High School	flagshipTuition	0.007	0.017	0.000	0.007
Work in High School	schoolOnlyBin1	0.651	0.102	1.044	0.079
Work in High School	schoolOnlyBin2	0.028	0.099	0.292	0.076
Work in High School	schoolOnlyBin3	-0.148	0.095	-0.033	0.077
Work in High School	schoolOnlyBin5	-0.105	0.144	-0.231	0.124
Work in High School	schoolOnlyBin6	0.226	0.439	-0.415	0.363
Work in High School	schoolOnlyBin7	0.523	0.583	-1.357	0.779
Work in High School	schoolOnlyBin8			-1.783	1.068
Work in High School	workK12Bin1	-2.529	0.075	-2.201	0.056
Work in High School	workK12Bin2	-0.281	0.092	-0.424	0.068
Work in High School	workK12Bin4	0.446	0.124	0.249	0.089
Work in High School	workK12Bin5	0.207	0.124	0.283	0.096
Work in High School	workK12Bin6	0.539	0.142	0.438	0.099
Work in High School	workK12Bin7	0.864	0.184	0.690	0.138
Work in High School	workK12Bin8	0.704	0.187	0.715	0.138
Work in High School	workK12Bin9	0.763	0.181	0.678	0.128
Work in High School	workPTonlyBin1	0.512	0.399	0.461	0.353
Work in High School	workPTonlyBin2	0.224	0.429	0.560	0.377
Work in High School	workPTonlyBin3	0.128	0.570	-0.253	0.512
Work in High School	workPTonlyBin5	-1.033	0.698	-1.120	1.071
Work in High School	workPTonlyBin6	-0.267	0.560	0.787	0.787

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work in High School	workPTonlyBin7	0.195	0.563	0.787	0.787
Work in High School	workPTonlyBin8	0.764	0.889	0.787	0.787
Work in High School	workPTonlyBin9	-1.266	0.558	0.787	0.787
Work in High School	workFTonlyBin1	-0.501	0.582	0.181	0.816
Work in High School	workFTonlyBin2	-0.665	0.728	-0.505	1.093
Work in High School	workFTonlyBin4	-0.463	0.812	-0.326	0.942
Work in High School	workFTonlyBin5	0.702	0.768	2.543	1.547
Work in High School	workFTonlyBin6	0.985	0.784	1.811	1.975
Work in High School	workFTonlyBin7	-0.222	0.719	1.811	1.975
Work in High School	workFTonlyBin8	-0.222	0.719	1.811	1.975
Work in High School	workFTonlyBin9	-0.222	0.719	1.811	1.975
Work in High School	otherBin1	0.116	0.351	-0.436	0.289
Work in High School	otherBin2	0.085	0.352	-0.483	0.288
Work in High School	otherBin3	-0.016	0.361	-0.442	0.291
Work in High School	otherBin5	0.992	0.558	-1.068	0.719
Work in High School	otherBin6	1.168	0.554	0.775	1.094
Work in High School	otherBin7	0.954	0.612	0.152	0.859
Work in High School	otherBin8	0.763	0.527	-1.204	0.953
Work in High School	otherBin9	1.207	0.517	-1.204	0.953
Work in High School	_cons	-0.617	0.797	-0.734	0.924
Work PT, no HS degree	black	-0.365	0.092	-0.425	0.094
Work PT, no HS degree	hispanic	0.027	0.104	-0.594	0.104
Work PT, no HS degree	birthYear1	-0.156	0.092	0.131	0.066
Work PT, no HS degree	birthYear2	0.093	0.079	0.130	0.065
Work PT, no HS degree	birthYear3	0.201	0.081	0.056	0.064
Work PT, no HS degree	birthYear4	0.181	0.074	0.053	0.068
Work PT, no HS degree	birthYear5	0.211	0.076		
Work PT, no HS degree	foreignBorn	0.034	0.091	-0.252	0.081
Work PT, no HS degree	employment percentage	0.034	0.128	0.533	0.112
Work PT, no HS degree	income per capita	0.026	0.011	-0.018	0.006
Work PT, no HS degree	schoolOnlyBlack	0.049	0.095	-0.120	0.085
Work PT, no HS degree	schoolOnlyHisp	-0.103	0.106	0.117	0.087
Work PT, no HS degree	workK12Black	-0.255	0.153	-0.024	0.153
Work PT, no HS degree	workK12Hisp	-0.016	0.163	-0.065	0.130
Work PT, no HS degree	workPTBlack	0.533	0.190	0.800	0.453
Work PT, no HS degree	workPTHisp	-0.009	0.173	1.452	0.439
Work PT, no HS degree	workFTBlack	0.011	0.070	-0.081	0.350
Work PT, no HS degree	workFTHisp	0.077	0.087	2.251	0.648
Work PT, no HS degree	otherBlack	-0.183	0.045	0.035	0.105
Work PT, no HS degree	otherHisp	-0.096	0.057	-0.031	0.122
Work PT, no HS degree	hgcMoth	0.026	0.029	0.022	0.037
Work PT, no HS degree	hgcMothSq	-0.018	0.015	-0.020	0.015
Work PT, no HS degree	m_hgcMoth	0.383	0.167	-0.009	0.236
Work PT, no HS degree	hgcFath	0.020	0.023	0.012	0.034
Work PT, no HS degree	hgcFathSq	-0.021	0.011	0.000	0.013
Work PT, no HS degree	m_hgcFath	-0.050	0.142	0.156	0.215
Work PT, no HS degree	famInc	-0.005	0.036	-0.078	0.024
Work PT, no HS degree	famIncSq	-0.006	0.036	0.031	0.015
Work PT, no HS degree	m_famInc	0.006	0.084	-0.226	0.065
Work PT, no HS degree	femaleHeadedHH14	-0.003	0.064	0.052	0.052
Work PT, no HS degree	liveWithMom14	-0.021	0.086	0.047	0.062
Work PT, no HS degree	numBAzero	0.042	0.090	0.015	0.059
Work PT, no HS degree	numBAperCapita	-0.026	0.016	-0.016	0.005
Work PT, no HS degree	flagshipTuition	-0.018	0.024	-0.003	0.010

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work PT, no HS degree	schoolOnlyBin1	1.035	0.136	0.929	0.100
Work PT, no HS degree	schoolOnlyBin2	0.569	0.125	0.419	0.094
Work PT, no HS degree	schoolOnlyBin3	0.183	0.114	0.072	0.091
Work PT, no HS degree	schoolOnlyBin5	-0.314	0.174	0.084	0.138
Work PT, no HS degree	schoolOnlyBin6	-0.670	0.478	-0.460	0.315
Work PT, no HS degree	schoolOnlyBin7	-0.413	0.674	0.463	0.567
Work PT, no HS degree	schoolOnlyBin8			-0.667	0.606
Work PT, no HS degree	workK12Bin1	-1.219	0.095	-1.119	0.075
Work PT, no HS degree	workK12Bin2	-0.209	0.116	-0.268	0.089
Work PT, no HS degree	workK12Bin4	0.409	0.145	0.235	0.117
Work PT, no HS degree	workK12Bin5	0.653	0.147	0.574	0.114
Work PT, no HS degree	workK12Bin6	0.357	0.174	0.366	0.121
Work PT, no HS degree	workK12Bin7	0.732	0.213	0.382	0.179
Work PT, no HS degree	workK12Bin8	0.441	0.224	0.366	0.170
Work PT, no HS degree	workK12Bin9	0.389	0.236	0.203	0.177
Work PT, no HS degree	workPTonlyBin1	-2.902	0.326	-3.243	0.548
Work PT, no HS degree	workPTonlyBin2	-1.508	0.356	-1.267	0.560
Work PT, no HS degree	workPTonlyBin3	-0.668	0.411	-1.289	0.667
Work PT, no HS degree	workPTonlyBin5	-0.841	0.537	-2.472	1.122
Work PT, no HS degree	workPTonlyBin6	-1.663	0.454	-0.234	0.850
Work PT, no HS degree	workPTonlyBin7	-0.631	0.543	-0.234	0.850
Work PT, no HS degree	workPTonlyBin8	-0.593	0.690	-0.234	0.850
Work PT, no HS degree	workPTonlyBin9	-2.090	0.473	-0.234	0.850
Work PT, no HS degree	workFTonlyBin1	-2.061	0.392	-1.261	0.662
Work PT, no HS degree	workFTonlyBin2	-0.250	0.455	0.072	1.015
Work PT, no HS degree	workFTonlyBin4	-0.284	0.575	1.168	1.300
Work PT, no HS degree	workFTonlyBin5	-0.242	0.561	2.160	1.189
Work PT, no HS degree	workFTonlyBin6	-0.254	0.645	2.776	1.529
Work PT, no HS degree	workFTonlyBin7	-0.699	0.479	2.776	1.529
Work PT, no HS degree	workFTonlyBin8	-0.699	0.479	2.776	1.529
Work PT, no HS degree	workFTonlyBin9	-0.699	0.479	2.776	1.529
Work PT, no HS degree	otherBin1	-2.666	0.238	-3.050	0.230
Work PT, no HS degree	otherBin2	-2.422	0.247	-2.650	0.238
Work PT, no HS degree	otherBin3	-1.028	0.250	-1.625	0.237
Work PT, no HS degree	otherBin5	0.115	0.358	-0.112	0.551
Work PT, no HS degree	otherBin6	0.334	0.345	1.971	0.591
Work PT, no HS degree	otherBin7	0.282	0.450	0.655	0.630
Work PT, no HS degree	otherBin8	0.222	0.404	0.439	0.958
Work PT, no HS degree	otherBin9	0.052	0.417	1.640	0.848
Work PT, no HS degree	cons	5.451	0.603	5.623	0.829
Work FT, no HS degree	black	-0.634	0.139	-0.731	0.144
Work FT, no HS degree	hispanic	0.108	0.126	-0.429	0.128
Work FT, no HS degree	birthYear1	0.182	0.119	0.156	0.088
Work FT, no HS degree	birthYear2	0.304	0.109	0.254	0.088
Work FT, no HS degree	birthYear3	0.235	0.139	0.103	0.080
Work FT, no HS degree	birthYear4	0.443	0.098	0.049	0.105
Work FT, no HS degree	birthYear5	0.453	0.103		
Work FT, no HS degree	foreignBorn	0.059	0.122	-0.194	0.108
Work FT, no HS degree	employment percentage	-0.079	0.190	0.170	0.162
Work FT, no HS degree	income per capita	0.065	0.016	0.002	0.008
Work FT, no HS degree	schoolOnlyBlack	-0.005	0.136	-0.073	0.113
Work FT, no HS degree	schoolOnlyHisp	-0.066	0.146	0.109	0.102
Work FT, no HS degree	workK12Black	-0.075	0.201	0.049	0.183
Work FT, no HS degree	workK12Hisp	0.085	0.177	-0.132	0.162
-					

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work FT, no HS degree	workPTBlack	0.437	0.213	0.527	0.463
Work FT, no HS degree	workPTHisp	-0.158	0.186	1.212	0.441
Work FT, no HS degree	workFTBlack	0.048	0.066	0.056	0.347
Work FT, no HS degree	workFTHisp	0.105	0.088	2.246	0.651
Work FT, no HS degree	otherBlack	-0.195	0.054	0.099	0.106
Work FT, no HS degree	otherHisp	-0.137	0.056	0.039	0.125
Work FT, no HS degree	hgcMoth	0.036	0.042	0.048	0.045
Work FT, no HS degree	hgcMothSq	-0.037	0.021	-0.051	0.023
Work FT, no HS degree	m hgcMoth	0.396	0.212	-0.210	0.244
Work FT, no HS degree	hgcFath	0.068	0.045	0.020	0.045
Work FT, no HS degree	hgcFathSq	-0.061	0.024	-0.021	0.021
Work FT, no HS degree	m_hgcFath	-0.069	0.211	0.161	0.256
Work FT, no HS degree	famInc	-0.022	0.052	-0.124	0.039
Work FT, no HS degree	famIncSq	-0.018	0.059	0.046	0.025
Work FT, no HS degree	m_famInc	0.033	0.112	-0.423	0.080
Work FT, no HS degree	femaleHeadedHH14	0.170	0.100	0.177	0.075
Work FT, no HS degree	liveWithMom14	-0.012	0.119	-0.248	0.090
Work FT, no HS degree	numBAzero	0.116	0.148	0.010	0.085
Work FT, no HS degree	numBAperCapita	-0.020	0.025	0.001	0.006
Work FT, no HS degree	flagshipTuition	0.004	0.030	-0.048	0.015
Work FT, no HS degree	schoolOnlyBin1	0.826	0.166	0.562	0.139
Work FT, no HS degree	schoolOnlyBin2	0.406	0.162	0.091	0.115
Work FT, no HS degree	schoolOnlyBin3	0.135	0.124	-0.178	0.127
Work FT, no HS degree	schoolOnlyBin5	-0.379	0.186	-0.057	0.159
Work FT, no HS degree	schoolOnlyBin6	-0.443	0.477	-0.548	0.346
Work FT, no HS degree	schoolOnlyBin7	0.174	1.275	-0.808	0.652
Work FT, no HS degree	schoolOnlyBin8			-2.171	0.754
Work FT, no HS degree	workK12Bin1	-1.344	0.110	-1.269	0.102
Work FT, no HS degree	workK12Bin2	-0.261	0.130	-0.341	0.119
Work FT, no HS degree	workK12Bin4	0.207	0.170	0.267	0.139
Work FT, no HS degree	workK12Bin5	0.622	0.173	0.706	0.148
Work FT, no HS degree	workK12Bin6	0.293	0.192	0.594	0.153
Work FT, no HS degree	workK12Bin7	0.807	0.369	0.691	0.210
Work FT, no HS degree	workK12Bin8	0.653	0.246	0.591	0.203
Work FT, no HS degree	workK12Bin9	0.614	0.316	0.445	0.228
Work FT, no HS degree	workPTonlyBin1	-1.909	0.338	-2.511	0.555
Work FT, no HS degree	workPTonlyBin2	-1.079	0.367	-1.049	0.563
Work FT, no HS degree	workPTonlyBin3	-0.311	0.418	-1.158	0.673
Work FT, no HS degree	workPTonlyBin5	-0.819	0.553	-2.762	1.142
Work FT, no HS degree	workPTonlyBin6	-1.656	0.466	-0.834	0.849
Work FT, no HS degree	workPTonlyBin7	-0.704	0.548	-0.834	0.849
Work FT, no HS degree	workPTonlyBin8	-0.913	0.709	-0.834	0.849
Work FT, no HS degree	workPTonlyBin9	-2.540	0.475	-0.834	0.849
Work FT, no HS degree	workFTonlyBin1	-3.986	0.396	-3.061	0.669
Work FT, no HS degree	workFTonlyBin2	-0.635	0.452	-0.150	1.028
Work FT, no HS degree	workFTonlyBin4	-0.027	0.571	1.480	1.322
Work FT, no HS degree	workFTonlyBin5	0.182	0.545	2.390	1.207
Work FT, no HS degree	workFTonlyBin6	0.341	0.645	3.388	1.545
Work FT, no HS degree	workFTonlyBin7	-0.188	0.480	3.388	1.545
Work FT, no HS degree	workFTonlyBin8	-0.188	0.480	3.388	1.545
Work FT, no HS degree	workFTonlyBin9	-0.188	0.480	3.388	1.545
Work FT, no HS degree	otherBin1	-3.133	0.251	-3.533	0.239
Work FT, no HS degree	otherBin2	-2.407	0.256	-2.867	0.249
Work FT, no HS degree	otherBin3	-1.071	0.259	-1.764	0.243
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Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work FT, no HS degree	otherBin5	0.009	0.364	-0.433	0.565
Work FT, no HS degree	otherBin6	0.243	0.351	1.652	0.593
Work FT, no HS degree	otherBin7	0.019	0.456	0.215	0.638
Work FT, no HS degree	otherBin8	-0.068	0.406	-0.039	0.965
Work FT, no HS degree	otherBin9	0.087	0.414	0.931	0.857
Work FT, no HS degree	_cons	6.232	0.677	7.896	0.853
Military, no HS degree	black	0.009	0.340	2.247	0.700
Military, no HS degree	hispanic	-0.384	0.418	-1.362	1.180
Military, no HS degree	birthYear1	0.586	0.942	-1.430	0.919
Military, no HS degree	birthYear2	1.136	0.829	0.783	0.629
Military, no HS degree	birthYear3	1.647	0.836	-2.723	1.193
Military, no HS degree	birthYear4	1.647	0.839	-0.782	0.663
Military, no HS degree	birthYear5	1.353	0.865		
Military, no HS degree	_cons	-7.721	0.980	-16.060	2.180
Other activities, no HS degree	black	-0.221	0.076	0.113	0.080
Other activities, no HS degree	hispanic	0.086	0.084	-0.109	0.080
Other activities, no HS degree	birthYear1	-0.032	0.065	0.101	0.057
Other activities, no HS degree	birthYear2	0.027	0.064	0.085	0.057
Other activities, no HS degree	birthYear3	0.175	0.062	0.109	0.057
Other activities, no HS degree	birthYear4	0.106	0.066	0.072	0.059
Other activities, no HS degree	birthYear5	0.147	0.065		
Other activities, no HS degree	foreignBorn	-0.008	0.080	-0.016	0.066
Other activities, no HS degree	employment percentage	0.201	0.113	0.313	0.099
Other activities, no HS degree	income per capita	0.000	0.010	-0.020	0.006
Other activities, no HS degree	schoolOnlyBlack	0.148	0.073	-0.198	0.071
Other activities, no HS degree	schoolOnlyHisp	-0.039	0.077	-0.141	0.076
Other activities, no HS degree	workK12Black	-0.003	0.148	0.052	0.159
Other activities, no HS degree	workK12Hisp	0.399	0.191	-0.088	0.147
Other activities, no HS degree	workPTBlack	0.151	0.167	0.456	0.453
Other activities, no HS degree	workPTHisp	-0.166	0.169	1.140	0.436
Other activities, no HS degree	workFTBlack	0.053	0.068	-0.068	0.347
Other activities, no HS degree	workFTHisp	0.053	0.086	2.212	0.651
Other activities, no HS degree	otherBlack	-0.037	0.035	0.138	0.101
Other activities, no HS degree	otherHisp	0.009	0.044	0.098	0.117
Other activities, no HS degree	hgcMoth	0.033	0.026	0.049	0.030
Other activities, no HS degree	hgcMothSq	-0.021	0.012	-0.033	0.013
Other activities, no HS degree	m_hgcMoth	0.320	0.157	0.024	0.183
Other activities, no HS degree	hgcFath	-0.007	0.021	0.027	0.029
Other activities, no HS degree	hgcFathSq	-0.008	0.010	-0.020	0.013
Other activities, no HS degree	m_hgcFath	-0.134	0.121	0.139	0.174
Other activities, no HS degree	famInc	-0.061	0.029	-0.085	0.022
Other activities, no HS degree	famIncSq	0.038	0.030	0.030	0.014
Other activities, no HS degree	m_famInc	-0.133	0.069	-0.144	0.053
Other activities, no HS degree	femaleHeadedHH14	0.038	0.054	0.069	0.044
Other activities, no HS degree	liveWithMom14	-0.046	0.069	-0.116	0.058
Other activities, no HS degree	numBAzero	-0.020	0.064	-0.074	0.055
Other activities, no HS degree	numBAperCapita	0.000	0.010	-0.001	0.006
Other activities, no HS degree	flagshipTuition	-0.012	0.018	-0.006	0.009
Other activities, no HS degree	schoolOnlyBin1	1.195	0.104	0.843	0.099
Other activities, no HS degree	schoolOnlyBin2	0.919	0.090	0.593	0.088
Other activities, no HS degree	schoolOnlyBin3	0.389	0.087	0.174	0.084
Other activities, no HS degree	schoolOnlyBin5	-0.325	0.126	-0.002	0.111
Other activities, no HS degree	schoolOnlyBin6	-0.953	0.313	-0.008	0.284
Other activities, no HS degree	schoolOnlyBin7	-0.847	0.546	-0.467	0.559
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Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Other activities, no HS degree	schoolOnlyBin8			0.820	0.555
Other activities, no HS degree	workK12Bin1	-0.705	0.095	-0.549	0.085
Other activities, no HS degree	workK12Bin2	-0.245	0.116	-0.165	0.099
Other activities, no HS degree	workK12Bin4	0.300	0.161	0.071	0.121
Other activities, no HS degree	workK12Bin5	0.345	0.151	0.277	0.140
Other activities, no HS degree	workK12Bin6	0.204	0.190	0.248	0.145
Other activities, no HS degree	workK12Bin7	0.287	0.368	0.383	0.198
Other activities, no HS degree	workK12Bin8	-0.008	0.247	0.378	0.175
Other activities, no HS degree	workK12Bin9	0.262	0.263	0.249	0.198
Other activities, no HS degree	workPTonlyBin1	-1.680	0.319	-2.016	0.554
Other activities, no HS degree	workPTonlyBin2	-1.069	0.351	-0.939	0.565
Other activities, no HS degree	workPTonlyBin3	-0.412	0.411	-1.147	0.676
Other activities, no HS degree	workPTonlyBin5	-0.854	0.550	-2.531	1.130
Other activities, no HS degree	workPTonlyBin6	-1.564	0.443	-0.558	0.844
Other activities, no HS degree	workPTonlyBin7	-0.677	0.538	-0.558	0.844
Other activities, no HS degree	workPTonlyBin8	-0.846	0.664	-0.558	0.844
Other activities, no HS degree	workPTonlyBin9	-2.166	0.434	-0.558	0.844
Other activities, no HS degree	workFTonlyBin1	-1.630	0.382	-1.513	0.661
Other activities, no HS degree	workFTonlyBin2	-0.155	0.444	-0.181	1.016
Other activities, no HS degree	workFTonlyBin4	0.024	0.560	1.340	1.299
Other activities, no HS degree	workFTonlyBin5	0.007	0.536	2.360	1.196
Other activities, no HS degree	workFTonlyBin6	0.007	0.637	3.169	1.532
Other activities, no HS degree	workFTonlyBin7	-0.426	0.468	3.169	1.532
Other activities, no HS degree	workFTonlyBin8	-0.426	0.468	3.169	1.532
Other activities, no HS degree	workFTonlyBin9	-0.426	0.468	3.169	1.532
Other activities, no HS degree	otherBin1	-3.926	0.225	-4.579	0.224
Other activities, no HS degree	otherBin2	-2.737	0.226	-3.240	0.222
Other activities, no HS degree	otherBin3	-1.202	0.234	-1.902	0.223
Other activities, no HS degree	otherBin5	0.288	0.344	-0.084	0.530
Other activities, no HS degree	otherBin6	0.564	0.333	2.210	0.584
Other activities, no HS degree	otherBin7	0.584	0.438	0.819	0.620
Other activities, no HS degree	otherBin8	0.630	0.377	0.905	0.954
Other activities, no HS degree	otherBin9	1.009	0.384	2.193	0.842
Other activities, no HS degree	cons	5.200	0.563	6.136	0.815
Graduate High School	black	0.393	0.159	0.334	0.151
Graduate High School	hispanic	0.242	0.157	0.581	0.152
Graduate High School	birthYear1	-0.172	0.086	0.012	0.080
Graduate High School	birthYear2	-0.055	0.086	0.060	0.088
Graduate High School	birthYear3	-0.014	0.098	0.028	0.084
Graduate High School	birthYear4	0.168	0.089	0.016	0.085
Graduate High School	birthYear5	0.164	0.087		
Graduate High School	foreignBorn	-0.066	0.117	-0.223	0.137
Graduate High School	employment percentage	0.141	0.145	0.021	0.126
Graduate High School	income per capita	-0.019	0.012	0.009	0.006
Graduate High School	schoolOnlyBlack	-0.254	0.108	-0.420	0.099
Graduate High School	schoolOnlyHisp	-0.246	0.111	-0.354	0.108
Graduate High School	workK12Black	-0.817	0.184	-0.324	0.137
Graduate High School	workK12Hisp	-0.119	0.168	-0.562	0.158
Graduate High School	workPTBlack	0.479	0.201	0.578	0.453
Graduate High School	workPTHisp	0.147	0.209	1.584	0.436
Graduate High School	workFTBlack	-0.044	0.098	0.107	0.349
Graduate High School	workFTHisp	0.010	0.101	2.141	0.644
Graduate High School	otherBlack	-0.151	0.072	-0.013	0.111
Graduate High School	otherHisp	-0.121	0.077	-0.285	0.134
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Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Graduate High School	hgcMoth	0.002	0.035	0.133	0.052
Graduate High School	hgcMothSq	0.014	0.017	-0.029	0.019
Graduate High School	m_hgcMoth	0.149	0.210	1.144	0.351
Graduate High School	hgcFath	0.031	0.025	0.017	0.043
Graduate High School	hgcFathSq	-0.002	0.011	0.000	0.016
Graduate High School	m_hgcFath	-0.045	0.160	0.070	0.288
Graduate High School	famInc	0.121	0.037	0.105	0.026
Graduate High School	famIncSq	-0.074	0.031	-0.058	0.016
Graduate High School	m_famInc	0.288	0.093	0.205	0.083
Graduate High School	femaleHeadedHH14	0.089	0.076	0.018	0.069
Graduate High School	liveWithMom14	0.136	0.111	0.089	0.084
Graduate High School	numBAzero	-0.015	0.079	0.197	0.068
Graduate High School	numBAperCapita	0.002	0.015	0.011	0.004
Graduate High School	flagshipTuition	-0.064	0.025	-0.004	0.013
Graduate High School	schoolOnlyBin1	-2.444	0.119	-1.676	0.126
Graduate High School	schoolOnlyBin2	-1.849	0.100	-1.440	0.104
Graduate High School	schoolOnlyBin3	-1.138	0.079	-0.918	0.096
Graduate High School	schoolOnlyBin5	0.257	0.104	0.447	0.125
Graduate High School	schoolOnlyBin6	0.165	0.383	0.556	0.282
Graduate High School	schoolOnlyBin7	-1.029	1.053	1.121	0.583
Graduate High School	schoolOnlyBin8			1.152	0.512
Graduate High School	workK12Bin1	-1.696	0.098	-1.538	0.077
Graduate High School	workK12Bin2	-0.479	0.115	-0.600	0.088
Graduate High School	workK12Bin4	1.132	0.147	0.675	0.108
Graduate High School	workK12Bin5	1.038	0.156	1.011	0.113
Graduate High School	workK12Bin6	1.683	0.173	1.309	0.122
Graduate High School	workK12Bin7	2.431	0.209	1.888	0.158
Graduate High School	workK12Bin8	2.996	0.234	2.494	0.163
Graduate High School	workK12Bin9	3.804	0.199	3.071	0.173
Graduate High School	workPTonlyBin1	-0.737	0.383	-1.376	0.593
Graduate High School	workPTonlyBin2	-0.966	0.405	-0.809	0.600
Graduate High School	workPTonlyBin3	-0.254	0.457	-1.082	0.720
Graduate High School	workPTonlyBin5	-0.847	0.608	-2.512	1.147
Graduate High School	workPTonlyBin6	-2.211	0.695	-0.823	0.895
Graduate High School	workPTonlyBin7	-0.750	0.650	-0.823	0.895
Graduate High School	workPTonlyBin8	-2.158	0.615	-0.823	0.895
Graduate High School	workPTonlyBin9	-2.158	0.615	-0.823	0.895
Graduate High School	workFTonlyBin1	-0.657	0.446	0.086	0.716
Graduate High School	workFTonlyBin2	0.020	0.511	0.243	1.043
Graduate High School	workFTonlyBin4	-0.319	0.685	1.244	1.438
Graduate High School	workFTonlyBin5	0.186	0.657	1.988	1.263
Graduate High School	workFTonlyBin6	0.174	0.770	3.171	1.572
Graduate High School	workFTonlyBin7	-0.143	0.572	3.171	1.572
Graduate High School	workFTonlyBin8	-0.143	0.572	3.171	1.572
Graduate High School	workFTonlyBin9	-0.143	0.572	3.171	1.572
Graduate High School	otherBin1	-0.875	0.256	-1.951	0.249
Graduate High School	otherBin2	-0.559	0.250	-1.571	0.239
Graduate High School	otherBin3	-0.481	0.250	-1.486	0.254
Graduate High School	otherBin5	0.132	0.395	-0.220	0.556
Graduate High School	otherBin6	0.282	0.395	2.281	0.588
Graduate High School	otherBin7	-0.195	0.439	0.803	0.638
Graduate High School	otherBin8	0.173	0.472	0.878	0.977
Graduate High School	otherBin9	-0.200	0.471	1.798	0.859
Graduate High School	_cons	0.855	0.666	-0.234	0.927

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work in College	black	-0.592	0.171	-0.423	0.189
Work in College	hispanic	-0.319	0.238	0.405	0.216
Work in College	birthYear1	0.179	0.102	0.240	0.083
Work in College	birthYear2	0.096	0.092	0.183	0.074
Work in College	birthYear3	0.000	0.091	0.182	0.076
Work in College	birthYear4	-0.112	0.089	0.026	0.078
Work in College	birthYear5	-0.016	0.091		
Work in College	foreignBorn	-0.320	0.117	0.029	0.101
Work in College	employment percentage	-0.281	0.123	0.181	0.137
Work in College	income per capita	0.064	0.012	-0.004	0.006
Work in College	schoolOnlyBlack	0.117	0.058	-0.007	0.054
Work in College	schoolOnlyHisp	0.121	0.089	-0.071	0.059
Work in College	workK12Black	0.015	0.108	-0.026	0.122
Work in College	workK12Hisp	0.454	0.151	-0.178	0.124
Work in College	workCollegeBlack	0.193	0.077	0.131	0.071
Work in College	workCollegeHisp	-0.142	0.078	-0.111	0.052
Work in College	workPTBlack	0.247	0.126	0.133	0.103
Work in College	workPTHisp	-0.008	0.129	0.206	0.101
Work in College	workFTBlack	0.019	0.047	0.083	0.048
Work in College	workFTHisp	-0.005	0.062	0.144	0.053
Work in College	militaryBlack	-0.008	0.051	0.047	0.056
Work in College	militaryHisp	0.013	0.062	0.000	0.054
Work in College	otherBlack	-0.116	0.062	0.110	0.052
Work in College	otherHisp	-0.077	0.077	-0.119	0.067
Work in College	hgcMoth	-0.039	0.040	-0.024	0.058
Work in College	hgcMothSq	0.006	0.017	0.001	0.022
Work in College	m_hgcMoth	-0.152	0.286	-0.220	0.408
Work in College	hgcFath	0.050	0.033	0.087	0.053
Work in College	hgcFathSq	-0.033	0.013	-0.036	0.019
Work in College	m_hgcFath	0.071	0.226	0.478	0.372
Work in College	famInc	-0.003	0.038	-0.062	0.028
Work in College	famIncSq	-0.034	0.033	0.014	0.017
Work in College	m_famInc	-0.170	0.108	-0.094	0.089
Work in College	femaleHeadedHH14	-0.053	0.081	-0.001	0.072
Work in College	liveWithMom14	-0.048	0.112	0.099	0.096
Work in College	numBAzero	0.185	0.091	-0.073	0.072
Work in College	numBAperCapita	0.033	0.017	-0.001	0.006
Work in College	flagshipTuition	0.026	0.024	-0.013	0.012
Work in College	schoolOnlyBin1	1.633	0.113	1.841	0.095
Work in College	schoolOnlyBin2	0.650	0.097	0.896	0.085
Work in College	schoolOnlyBin3	0.186	0.084	0.341	0.078
Work in College	schoolOnlyBin5	-0.535	0.074	-0.634	0.071
Work in College	schoolOnlyBin6	-1.153	0.106	-1.140	0.097
Work in College	schoolOnlyBin7	-1.368	0.160	-1.583	0.136
Work in College	schoolOnlyBin8	-1.491	0.248	-1.478	0.194
Work in College	schoolOnlyBin9	-1.156	0.341	-2.133	0.314
Work in College	workK12Bin1	-0.057	0.103	0.278	0.093
Work in College	workK12Bin2	0.067	0.123	0.343	0.109
Work in College	workK12Bin4	-0.228	0.128	0.101	0.120
Work in College	workK12Bin5	-0.171	0.134	0.009	0.126
Work in College	workK12Bin6	-0.388	0.133	-0.058	0.120
Work in College	workK12Bin7	-0.363	0.165	-0.505	0.123
Work in College	workK12Bin8	-0.781	0.144	-0.378	0.114
Work in College	workK12Bin9	-0.791	0.137	-0.623	0.113

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work in College	workCollegeBin1	-1.604	0.090	-1.962	0.087
Work in College	workCollegeBin2	-0.264	0.098	-0.428	0.096
Work in College	workCollegeBin4	0.210	0.125	0.028	0.115
Work in College	workCollegeBin5	0.405	0.159	0.199	0.135
Work in College	workCollegeBin6	0.840	0.223	0.612	0.147
Work in College	workCollegeBin7	0.893	0.244	0.752	0.158
Work in College	workCollegeBin8	1.046	0.357	0.824	0.221
Work in College	workCollegeBin9	1.247	0.282	0.867	0.279
Work in College	workPTonlyBin1	-0.155	0.139	0.050	0.135
Work in College	workPTonlyBin2	-0.117	0.143	-0.041	0.145
Work in College	workPTonlyBin3	-0.046	0.156	0.240	0.162
Work in College	workPTonlyBin5	-0.024	0.255	0.107	0.252
Work in College	workPTonlyBin6	-0.011	0.314	-0.071	0.223
Work in College	workPTonlyBin7	-0.186	0.268	-0.185	0.226
Work in College	workPTonlyBin8	-0.163	0.367	0.288	0.352
Work in College	workPTonlyBin9	-0.145	0.291	-0.096	0.246
Work in College	workFTonlyBin1	-0.673	0.159	-0.044	0.137
Work in College	workFTonlyBin2	-0.510	0.181	0.087	0.167
Work in College	workFTonlyBin4	0.268	0.272	0.113	0.204
Work in College	workFTonlyBin5	-0.427	0.256	-0.159	0.228
Work in College	workFTonlyBin6	0.458	0.347	-0.230	0.266
Work in College	workFTonlyBin7	-0.037	0.328	-0.408	0.385
Work in College	workFTonlyBin8	-0.114	0.432	-0.522	0.386
Work in College	workFTonlyBin9	0.214	0.274	-0.150	0.359
Work in College	militaryBin1	0.584	0.253	0.777	0.273
Work in College	militaryBin2	-0.219	0.409	0.199	0.402
Work in College	militaryBin4	0.391	0.346	1.093	0.370
Work in College	militaryBin5	0.778	0.300	0.261	0.300
Work in College	otherBin1	-0.216	0.133	0.180	0.127
Work in College	otherBin2	-0.131	0.130	0.252	0.127
Work in College	otherBin3	-0.225	0.127	0.096	0.136
Work in College	otherBin5	-0.391	0.198	-0.071	0.206
Work in College	otherBin6	-0.324	0.197	-0.056	0.205
Work in College	otherBin7	-0.492	0.255	-0.374	0.269
Work in College	otherBin8	-0.472	0.332	-0.495	0.408
Work in College	otherBin9	-1.081	0.383	-1.261	0.338
Work in College	_cons	1.574	0.504	0.737	0.621
Work PT, HS graduate	black	-0.335	0.182	-0.065	0.291
Work PT, HS graduate	hispanic	-0.432	0.263	0.366	0.255
Work PT, HS graduate	birthYear2	0.339	0.114	0.263	0.095
Work PT, HS graduate	birthYear2	0.339	0.114	0.263	0.095
Work PT, HS graduate	birthYear3	0.046	0.102	0.446	0.098
Work PT, HS graduate	birthYear4	-0.075	0.100	0.039	0.096
Work PT, HS graduate	birthYear5	-0.041	0.097		
Work PT, HS graduate	foreignBorn	-0.448	0.120	-0.344	0.120
Work PT, HS graduate	employment percentage	-0.325	0.134	0.269	0.172
Work PT, HS graduate	income per capita	0.082	0.013	-0.003	0.008
Work PT, HS graduate	schoolOnlyBlack	-0.003	0.062	0.123	0.072
Work PT, HS graduate	schoolOnlyHisp	0.111	0.097	0.053	0.070
Work PT, HS graduate	workK12Black	-0.100	0.116	-0.177	0.237
Work PT, HS graduate	workK12Hisp	0.384	0.163	-0.309	0.124
Work PT, HS graduate	workCollegeBlack	0.109	0.090	-0.086	0.083
Work PT, HS graduate	workCollegeHisp	-0.220	0.096	-0.281	0.069
Work PT, HS graduate	workPTBlack	0.287	0.117	0.199	0.107

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work PT, HS graduate	workPTHisp	0.120	0.128	0.272	0.096
Work PT, HS graduate	workFTBlack	0.043	0.047	0.047	0.048
Work PT, HS graduate	workFTHisp	0.028	0.060	0.108	0.053
Work PT, HS graduate	militaryBlack	0.074	0.041	-0.091	0.068
Work PT, HS graduate	militaryHisp	0.070	0.062	-0.125	0.060
Work PT, HS graduate	otherBlack	0.025	0.045	0.033	0.058
Work PT, HS graduate	otherHisp	-0.065	0.057	-0.181	0.057
Work PT, HS graduate	hgcMoth	-0.047	0.038	-0.099	0.065
Work PT, HS graduate	hgcMothSq	-0.002	0.017	0.015	0.026
Work PT, HS graduate	m_hgcMoth	-0.306	0.277	-1.238	0.432
Work PT, HS graduate	hgcFath	0.066	0.037	0.042	0.060
Work PT, HS graduate	hgcFathSq	-0.059	0.016	-0.043	0.023
Work PT, HS graduate	m_hgcFath	0.082	0.249	-0.015	0.402
Work PT, HS graduate	famInc	-0.014	0.044	-0.145	0.036
Work PT, HS graduate	famIncSq	-0.041	0.040	0.029	0.022
Work PT, HS graduate	m famInc	-0.183	0.123	-0.320	0.118
Work PT, HS graduate	_ femaleHeadedHH14	-0.245	0.086	0.011	0.083
Work PT, HS graduate	liveWithMom14	-0.095	0.117	-0.175	0.113
Work PT, HS graduate	numBAzero	0.123	0.114	-0.105	0.093
Work PT, HS graduate	numBAperCapita	0.035	0.019	0.008	0.006
Work PT, HS graduate	flagshipTuition	0.078	0.028	0.014	0.015
Work PT, HS graduate	schoolOnlyBin1	1.778	0.126	2.084	0.120
Work PT, HS graduate	schoolOnlyBin2	0.705	0.107	1.057	0.114
Work PT, HS graduate	schoolOnlyBin3	0.258	0.085	0.630	0.101
Work PT, HS graduate	schoolOnlyBin5	-0.582	0.080	-0.549	0.092
Work PT, HS graduate	schoolOnlyBin6	-1.238	0.118	-0.940	0.141
Work PT, HS graduate	schoolOnlyBin7	-1.565	0.178	-1.014	0.190
Work PT, HS graduate	schoolOnlyBin8	-1.822	0.283	-0.712	0.252
Work PT, HS graduate	schoolOnlyBin9	-1.138	0.425	-0.636	0.328
Work PT, HS graduate	workK12Bin1	0.042	0.111	0.271	0.118
Work PT, HS graduate	workK12Bin2	0.151	0.132	0.667	0.125
Work PT, HS graduate	workK12Bin4	-0.091	0.152	0.299	0.145
Work PT, HS graduate	workK12Bin5	-0.005	0.142	0.163	0.148
Work PT, HS graduate	workK12Bin6	-0.293	0.148	-0.084	0.146
Work PT, HS graduate	workK12Bin7	-0.292	0.170	-0.434	0.152
Work PT, HS graduate	workK12Bin8	-0.904	0.161	-0.362	0.145
Work PT, HS graduate	workK12Bin9	-1.087	0.157	-0.611	0.136
Work PT, HS graduate	workCollegeBin1	0.404	0.119	0.182	0.127
Work PT, HS graduate	workCollegeBin2	0.248	0.126	-0.253	0.142
Work PT, HS graduate	workCollegeBin4	0.165	0.158	0.077	0.170
Work PT, HS graduate	workCollegeBin5	-0.005	0.199	0.038	0.195
Work PT, HS graduate	workCollegeBin6	0.325	0.265	0.070	0.217
Work PT, HS graduate	workCollegeBin7	0.204	0.292	0.542	0.220
Work PT, HS graduate	workCollegeBin8	-0.552	0.365	0.804	0.293
Work PT, HS graduate	workCollegeBin9	-0.412	0.427	0.575	0.363
Work PT, HS graduate	workPTonlyBin1	-1.676	0.136	-1.802	0.133
Work PT, HS graduate	workPTonlyBin2	-0.937	0.140	-0.785	0.147
Work PT, HS graduate	workPTonlyBin3	-0.337	0.150	-0.121	0.157
Work PT, HS graduate	workPTonlyBin5	0.226	0.253	0.319	0.235
Work PT, HS graduate	workPTonlyBin6	0.422	0.286	0.116	0.212
Work PT, HS graduate	workPTonlyBin7	0.308	0.261	-0.025	0.208
Work PT, HS graduate	workPTonlyBin8	0.407	0.382	0.440	0.335
Work PT, HS graduate	workPTonlyBin9	0.612	0.300	0.738	0.237
Work PT, HS graduate	workFTonlyBin1	-1.317	0.168	-0.645	0.140

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work PT, HS graduate	workFTonlyBin2	-0.621	0.188	0.123	0.169
Work PT, HS graduate	workFTonlyBin4	0.213	0.277	-0.129	0.202
Work PT, HS graduate	workFTonlyBin5	-0.508	0.250	-0.484	0.227
Work PT, HS graduate	workFTonlyBin6	0.197	0.360	-0.220	0.254
Work PT, HS graduate	workFTonlyBin7	-0.039	0.356	-0.191	0.371
Work PT, HS graduate	workFTonlyBin8	-0.210	0.408	-0.499	0.347
Work PT, HS graduate	workFTonlyBin9	-0.133	0.279	-0.275	0.336
Work PT, HS graduate	militaryBin1	0.281	0.307	1.381	0.327
Work PT, HS graduate	militaryBin2	-0.004	0.417	1.311	0.469
Work PT, HS graduate	militaryBin4	0.464	0.355	1.788	0.416
Work PT, HS graduate	militaryBin5	0.926	0.326	1.470	0.368
Work PT, HS graduate	otherBin1	-0.804	0.133	-0.345	0.138
Work PT, HS graduate	otherBin2	-0.546	0.128	0.035	0.142
Work PT, HS graduate	otherBin3	-0.349	0.123	0.113	0.142
Work PT, HS graduate	otherBin5	-0.195	0.169	0.258	0.205
Work PT, HS graduate	otherBin6	-0.082	0.189	0.230	0.205
-	otherBin7	-0.082			
Work PT, HS graduate			0.226	0.099	0.252
Work PT, HS graduate	otherBin8	-0.479	0.292	-0.026	0.328
Work PT, HS graduate	otherBin9	-0.483	0.292	-0.527	0.314
Work PT, HS graduate	_cons	2.567	0.568	1.828	0.712
Work FT, HS graduate	black	-0.636	0.220	-0.199	0.336
Work FT, HS graduate	hispanic	-0.616	0.302	0.491	0.272
Work FT, HS graduate	birthYear2	0.397	0.139	0.324	0.103
Work FT, HS graduate	birthYear2	0.397	0.139	0.324	0.103
Work FT, HS graduate	birthYear3	0.086	0.148	0.423	0.105
Work FT, HS graduate	birthYear4	-0.019	0.115	0.034	0.107
Work FT, HS graduate	birthYear5	0.050	0.110		
Work FT, HS graduate	foreignBorn	-0.429	0.126	-0.462	0.115
Work FT, HS graduate	employment percentage	-0.345	0.161	0.561	0.184
Work FT, HS graduate	income per capita	0.104	0.015	-0.004	0.008
Work FT, HS graduate	schoolOnlyBlack	0.091	0.072	0.198	0.079
Work FT, HS graduate	schoolOnlyHisp	0.207	0.103	0.120	0.068
Work FT, HS graduate	workK12Black	-0.026	0.151	-0.246	0.301
Work FT, HS graduate	workK12Hisp	0.473	0.177	-0.341	0.126
Work FT, HS graduate	workCollegeBlack	0.193	0.094	-0.046	0.080
Work FT, HS graduate	workCollegeHisp	-0.150	0.089	-0.282	0.059
Work FT, HS graduate	workPTBlack	0.219	0.129	0.126	0.108
Work FT, HS graduate	workPTHisp	-0.018	0.128	0.157	0.096
Work FT, HS graduate	workFTBlack	0.056	0.047	0.078	0.046
Work FT, HS graduate	workFTHisp	0.062	0.060	0.124	0.052
Work FT, HS graduate	militaryBlack	0.087	0.041	-0.047	0.060
Work FT, HS graduate	militaryHisp	0.067	0.060	-0.025	0.056
-	otherBlack	0.007	0.000	0.023	0.050
Work FT, HS graduate					
Work FT, HS graduate	otherHisp b seMath	-0.058	0.060	-0.157	0.056
Work FT, HS graduate	hgcMoth	-0.034	0.041	-0.004	0.065
Work FT, HS graduate	hgcMothSq	-0.020	0.019	-0.026	0.026
Work FT, HS graduate	m_hgcMoth	-0.167	0.296	-0.770	0.418
Work FT, HS graduate	hgcFath	0.066	0.047	0.001	0.061
Work FT, HS graduate	hgcFathSq	-0.068	0.020	-0.035	0.023
Work FT, HS graduate	m_hgcFath	0.001	0.319	-0.393	0.407
Work FT, HS graduate	famInc	-0.057	0.049	-0.187	0.039
Work FT, HS graduate	famIncSq	-0.021	0.042	0.041	0.023
Work FT, HS graduate	m_famInc	-0.314	0.144	-0.335	0.125
Work FT, HS graduate	femaleHeadedHH14	-0.268	0.114	0.034	0.100

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work FT, HS graduate	liveWithMom14	0.080	0.174	-0.137	0.128
Work FT, HS graduate	numBAzero	0.064	0.183	-0.047	0.104
Work FT, HS graduate	numBAperCapita	0.013	0.020	0.015	0.005
Work FT, HS graduate	flagshipTuition	0.135	0.038	0.000	0.017
Work FT, HS graduate	schoolOnlyBin1	1.729	0.159	2.117	0.137
Work FT, HS graduate	schoolOnlyBin2	0.662	0.149	1.136	0.127
Work FT, HS graduate	schoolOnlyBin3	0.200	0.114	0.720	0.111
Work FT, HS graduate	schoolOnlyBin5	-0.536	0.104	-0.469	0.102
Work FT, HS graduate	schoolOnlyBin6	-1.272	0.127	-0.725	0.149
Work FT, HS graduate	schoolOnlyBin7	-1.363	0.193	-0.515	0.177
Work FT, HS graduate	schoolOnlyBin8	-1.486	0.363	-0.276	0.251
Work FT, HS graduate	schoolOnlyBin9	-0.744	0.439	-0.163	0.367
Work FT, HS graduate	workK12Bin1	0.124	0.157	0.225	0.134
Work FT, HS graduate	workK12Bin2	0.217	0.165	0.786	0.136
Work FT, HS graduate	workK12Bin4	0.043	0.194	0.378	0.166
Work FT, HS graduate	workK12Bin5	0.239	0.174	0.155	0.151
Work FT, HS graduate	workK12Bin6	-0.233	0.201	-0.046	0.160
Work FT, HS graduate	workK12Bin7	-0.137	0.223	-0.458	0.157
Work FT, HS graduate	workK12Bin8	-0.604	0.214	-0.283	0.153
Work FT, HS graduate	workK12Bin9	-0.834	0.209	-0.462	0.148
Work FT, HS graduate	workCollegeBin1	0.223	0.130	-0.138	0.119
Work FT, HS graduate	workCollegeBin2	0.193	0.129	-0.411	0.137
Work FT, HS graduate	workCollegeBin4	0.187	0.176	-0.063	0.155
Work FT, HS graduate	workCollegeBin5	0.170	0.199	0.258	0.183
Work FT, HS graduate	workCollegeBin6	0.260	0.274	0.463	0.194
Work FT, HS graduate	workCollegeBin7	0.175	0.292	0.934	0.202
Work FT, HS graduate	workCollegeBin8	0.247	0.391	1.086	0.261
Work FT, HS graduate	workCollegeBin9	-0.039	0.372	0.973	0.309
Work FT, HS graduate	workPTonlyBin1	-0.625	0.147	-0.684	0.138
Work FT, HS graduate	workPTonlyBin2	-0.441	0.153	-0.259	0.153
Work FT, HS graduate	workPTonlyBin3	-0.175	0.160	0.045	0.161
Work FT, HS graduate	workPTonlyBin5	0.079	0.258	0.125	0.234
Work FT, HS graduate	workPTonlyBin6	0.026	0.292	-0.254	0.223
Work FT, HS graduate	workPTonlyBin7	-0.097	0.273	-0.657	0.211
Work FT, HS graduate	workPTonlyBin8	-0.253	0.384	-0.168	0.343
Work FT, HS graduate	workPTonlyBin9	-0.230	0.315	-0.393	0.237
Work FT, HS graduate	workFTonlyBin1	-3.144	0.166	-2.465	0.135
Work FT, HS graduate	workFTonlyBin2	-0.931	0.184	-0.212	0.161
Work FT, HS graduate	workFTonlyBin4	0.489	0.271	0.126	0.191
Work FT, HS graduate	workFTonlyBin5	-0.078	0.245	0.003	0.218
Work FT, HS graduate	workFTonlyBin6	0.768	0.355	0.256	0.245
Work FT, HS graduate	workFTonlyBin7	0.504	0.351	0.461	0.365
Work FT, HS graduate	workFTonlyBin8	0.480	0.403	0.373	0.333
Work FT, HS graduate	workFTonlyBin9	0.953	0.278	0.798	0.326
Work FT, HS graduate	militaryBin1	-0.106	0.327	0.964	0.287
Work FT, HS graduate	militaryBin2	0.297	0.411	0.865	0.479
Work FT, HS graduate	militaryBin4	0.983	0.367	1.876	0.378
Work FT, HS graduate	militaryBin5	1.854	0.338	1.710	0.319
Work FT, HS graduate	otherBin1	-0.620	0.148	-0.159	0.135
Work FT, HS graduate	otherBin2	-0.380	0.140	0.129	0.140
Work FT, HS graduate	otherBin3	-0.330	0.128	0.142	0.144
Work FT, HS graduate	otherBin5	-0.280	0.172	0.070	0.204
Work FT, HS graduate	otherBin6	-0.261	0.194	-0.137	0.203
Work FT, HS graduate	otherBin7	-0.386	0.234	-0.357	0.249

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work FT, HS graduate	otherBin8	-0.690	0.304	-0.347	0.328
Work FT, HS graduate	otherBin9	-0.776	0.284	-0.935	0.318
Work FT, HS graduate	cons	4.185	0.620	3.374	0.679
Military, HS graduate	 black	-0.313	0.283	0.004	0.364
Military, HS graduate	hispanic	-1.328	0.390	0.169	0.365
Military, HS graduate	birthYear2	-0.221	0.170	0.358	0.150
Military, HS graduate	birthYear2	-0.221	0.170	0.358	0.150
Military, HS graduate	birthYear3	-0.124	0.136	0.223	0.169
Military, HS graduate	birthYear4	0.225	0.130	0.220	0.171
Military, HS graduate	birthYear5	-0.064	0.144		
Military, HS graduate	foreignBorn	-0.075	0.206	0.247	0.193
Military, HS graduate	employment percentage	-0.284	0.229	0.700	0.298
Military, HS graduate	income per capita	0.017	0.020	-0.055	0.014
Military, HS graduate	schoolOnlyBlack	0.216	0.102	-0.143	0.099
Military, HS graduate	schoolOnlyHisp	0.510	0.125	0.019	0.117
Military, HS graduate	workK12Black	0.590	0.166	0.117	0.222
Military, HS graduate	workK12Hisp	0.927	0.256	0.175	0.209
Military, HS graduate	workCollegeBlack	0.856	0.131	-0.049	0.193
Military, HS graduate	workCollegeHisp	-0.923	0.238	-0.181	0.155
Military, HS graduate	workPTBlack	0.539	0.160	0.334	0.228
Military, HS graduate	workPTHisp	0.317	0.229	0.485	0.135
Military, HS graduate	workFTBlack	-0.449	0.122	-0.255	0.123
Military, HS graduate	workFTHisp	-0.287	0.128	-0.107	0.091
Military, HS graduate	militaryBlack	0.006	0.033	0.052	0.048
Military, HS graduate	militaryHisp	-0.026	0.045	0.039	0.044
Military, HS graduate	otherBlack	-0.189	0.105	-0.343	0.248
Military, HS graduate	otherHisp	-0.169	0.137	-0.225	0.190
Military, HS graduate	hgcMoth	-0.004	0.081	-0.080	0.109
Military, HS graduate	hgcMothSq	-0.041	0.035	0.004	0.043
Military, HS graduate	m_hgcMoth	-0.501	0.521	-1.085	0.710
Military, HS graduate	hgcFath	0.303	0.064	0.297	0.101
Military, HS graduate	hgcFathSq	-0.150	0.029	-0.117	0.041
Military, HS graduate	m_hgcFath	1.438	0.387	1.628	0.624
Military, HS graduate	famInc	-0.136	0.070	0.048	0.064
Military, HS graduate	famIncSq	0.126	0.077	-0.047	0.054
Military, HS graduate	m_famInc	-0.266	0.156	-0.046	0.209
Military, HS graduate	femaleHeadedHH14	-0.282	0.113	-0.048	0.131
Military, HS graduate	liveWithMom14	-0.455	0.158	-0.410	0.155
Military, HS graduate	numBAzero	0.309	0.156	-0.040	0.158
Military, HS graduate	numBAperCapita	-0.029	0.030	-0.035	0.017
Military, HS graduate	flagshipTuition	-0.135	0.038	-0.063	0.024
Military, HS graduate	schoolOnlyBin1	1.437	0.189	2.300	0.185
Military, HS graduate	schoolOnlyBin2	0.944	0.157	1.149	0.184
Military, HS graduate	schoolOnlyBin3	0.458	0.144	0.253	0.172
Military, HS graduate	schoolOnlyBin5	-0.865	0.130	-1.078	0.165
Military, HS graduate	schoolOnlyBin6	-1.829	0.198	-2.192	0.285
Military, HS graduate	schoolOnlyBin7	-3.225	0.371	-3.281	0.358
Military, HS graduate	schoolOnlyBin8	-2.526	0.463	-1.651	0.548
Military, HS graduate	schoolOnlyBin9	-2.526	0.463	-2.436	0.487
Military, HS graduate	workK12Bin1	-0.025	0.158	0.098	0.175
Military, HS graduate	workK12Bin2	-0.163	0.175	0.448	0.223
Military, HS graduate	workK12Bin4	-0.719	0.206	-0.356	0.239
Military, HS graduate	workK12Bin5	-0.268	0.221	-0.476	0.268
Military, HS graduate	workK12Bin6	-0.641	0.203	-0.351	0.213

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Military, HS graduate	workK12Bin7	-1.442	0.246	-0.566	0.245
Military, HS graduate	workK12Bin8	-2.393	0.228	-0.747	0.256
Military, HS graduate	workK12Bin9	-1.433	0.229	-1.127	0.223
Military, HS graduate	workCollegeBin1	0.447	0.208	0.762	0.262
Military, HS graduate	workCollegeBin2	0.122	0.229	0.379	0.315
Military, HS graduate	workCollegeBin4	-0.165	0.275	0.248	0.345
Military, HS graduate	workCollegeBin5	-0.330	0.461	-0.524	0.482
Military, HS graduate	workCollegeBin6	-0.182	0.484	-0.845	0.651
Military, HS graduate	workCollegeBin7	-1.619	0.632	-0.436	0.552
Military, HS graduate	workCollegeBin8	-1.619	0.632	-0.560	0.566
Military, HS graduate	workCollegeBin9	-1.619	0.632	-0.560	0.566
Military, HS graduate	workPTonlyBin1	-0.147	0.216	-0.098	0.231
Military, HS graduate	workPTonlyBin2	-0.551	0.215	-0.316	0.250
Military, HS graduate	workPTonlyBin3	-0.127	0.243	-0.109	0.281
Military, HS graduate	workPTonlyBin5	-1.052	0.417	-0.595	0.415
Military, HS graduate	workPTonlyBin6	0.400	0.443	-0.649	0.411
Military, HS graduate	workPTonlyBin7	-0.703	0.405	-1.030	0.379
Military, HS graduate	workPTonlyBin8	-0.453	0.661	-1.030	0.379
Military, HS graduate	workPTonlyBin9	-0.682	0.493	-1.030	0.379
Military, HS graduate	workFTonlyBin1	-0.657	0.240	-0.768	0.238
Military, HS graduate	workFTonlyBin2	-0.570	0.257	0.297	0.267
Military, HS graduate	workFTonlyBin4	-0.144	0.383	-0.534	0.316
Military, HS graduate	workFTonlyBin5	-1.171	0.430	-0.345	0.425
Military, HS graduate	workFTonlyBin6	-1.171	0.430	-0.092	0.381
Military, HS graduate	workFTonlyBin7	-1.547	0.639	-0.092	0.381
Military, HS graduate	workFTonlyBin8	-1.776	0.880	-0.092	0.381
Military, HS graduate	workFTonlyBin9	-3.033	1.100	-0.092	0.381
Military, HS graduate	militaryBin1	-3.280	0.267	-3.154	0.261
Military, HS graduate	militaryBin2	0.092	0.348	0.673	0.397
Military, HS graduate	militaryBin4	-0.287	0.312	0.618	0.342
Military, HS graduate	militaryBin5	-1.045	0.289	-0.490	0.286
Military, HS graduate	otherBin1	-0.195	0.223	-0.583	0.247
Military, HS graduate	otherBin2	-0.140	0.222	-0.345	0.250
Military, HS graduate	otherBin3	-0.228	0.210	-0.013	0.253
Military, HS graduate	otherBin5	0.087	0.315	-0.162	0.417
Military, HS graduate	otherBin6	-0.475	0.354	-0.868	0.437
Military, HS graduate	otherBin7	-0.593	0.507	-1.955	0.549
Military, HS graduate	otherBin8	-1.357	0.594	-2.425	1.229
Military, HS graduate	otherBin9	-1.357	0.594	-2.425	1.229
Military, HS graduate	cons	0.690	0.774	1.692	1.002
Other activities, HS graduate	black	0.050	0.181	0.448	0.254
Other activities, HS graduate	hispanic	-0.469	0.251	0.380	0.247
Other activities, HS graduate	birthYear2	0.068	0.103	0.105	0.095
Other activities, HS graduate	birthYear2	0.068	0.103	0.105	0.095
Other activities, HS graduate	birthYear3	0.024	0.099	0.324	0.097
Other activities, HS graduate	birthYear4	-0.102	0.095	-0.024	0.097
Other activities, HS graduate	birthYear5	-0.087	0.094		
Other activities, HS graduate	foreignBorn	-0.286	0.117	-0.376	0.122
Other activities, HS graduate	employment percentage	-0.339	0.130	-0.116	0.170
Other activities, HS graduate	income per capita	0.059	0.012	-0.004	0.008
Other activities, HS graduate	schoolOnlyBlack	-0.051	0.060	0.078	0.066
Other activities, HS graduate	schoolOnlyHisp	0.106	0.092	0.055	0.068
Other activities, HS graduate	workK12Black	-0.081	0.117	-0.263	0.193
Other activities, HS graduate	workK12Hisp	0.460	0.155	-0.333	0.128
		0.100	0.100	0.000	0.120

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Other activities, HS graduate	workCollegeBlack	0.056	0.087	-0.106	0.071
Other activities, HS graduate	workCollegeHisp	-0.149	0.092	-0.185	0.067
Other activities, HS graduate	workPTBlack	0.195	0.114	0.097	0.103
Other activities, HS graduate	workPTHisp	-0.039	0.123	0.146	0.097
Other activities, HS graduate	workFTBlack	0.044	0.045	-0.006	0.047
Other activities, HS graduate	workFTHisp	0.030	0.059	0.076	0.053
Other activities, HS graduate	militaryBlack	0.001	0.040	-0.099	0.067
Other activities, HS graduate	militaryHisp	0.016	0.062	-0.011	0.065
Other activities, HS graduate	otherBlack	0.100	0.040	0.049	0.053
Other activities, HS graduate	otherHisp	0.064	0.056	-0.132	0.054
Other activities, HS graduate	hgcMoth	-0.047	0.038	-0.083	0.062
Other activities, HS graduate	hgcMothSq	-0.009	0.017	0.009	0.025
Other activities, HS graduate	m_hgcMoth	-0.349	0.270	-1.087	0.414
Other activities, HS graduate	hgcFath	0.057	0.033	0.064	0.061
Other activities, HS graduate	hgcFathSq	-0.053	0.014	-0.051	0.023
Other activities, HS graduate	m_hgcFath	0.110	0.218	0.154	0.398
Other activities, HS graduate	famInc	-0.043	0.044	-0.091	0.036
Other activities, HS graduate	famIncSq	-0.017	0.042	0.018	0.023
Other activities, HS graduate	m_famInc	-0.263	0.117	-0.164	0.111
Other activities, HS graduate	femaleHeadedHH14	-0.218	0.081	-0.126	0.082
Other activities, HS graduate	liveWithMom14	-0.153	0.123	-0.095	0.109
Other activities, HS graduate	numBAzero	0.141	0.100	-0.199	0.091
Other activities, HS graduate	numBAperCapita	0.006	0.018	0.000	0.007
Other activities, HS graduate	flagshipTuition	0.081	0.025	0.003	0.016
Other activities, HS graduate	schoolOnlyBin1	1.985	0.123	2.120	0.117
Other activities, HS graduate	schoolOnlyBin2	0.872	0.104	0.942	0.111
Other activities, HS graduate	schoolOnlyBin3	0.376	0.085	0.524	0.100
Other activities, HS graduate	schoolOnlyBin5	-0.693	0.075	-0.611	0.087
Other activities, HS graduate	schoolOnlyBin6	-1.332	0.112	-0.998	0.133
Other activities, HS graduate	schoolOnlyBin7	-1.832	0.198	-1.130	0.187
Other activities, HS graduate	schoolOnlyBin8	-1.846	0.227	-0.657	0.234
Other activities, HS graduate	schoolOnlyBin9	-1.436	0.515	-0.677	0.315
Other activities, HS graduate	workK12Bin1	-0.082	0.106	0.143	0.116
Other activities, HS graduate	workK12Bin2	0.085	0.127	0.523	0.126
Other activities, HS graduate	workK12Bin4	-0.087	0.150	0.334	0.141
Other activities, HS graduate	workK12Bin5	-0.129	0.139	0.386	0.158
Other activities, HS graduate	workK12Bin6	-0.255	0.141	0.183	0.143
Other activities, HS graduate	workK12Bin7	-0.289	0.176	-0.076	0.159
Other activities, HS graduate	workK12Bin8	-0.874	0.156	-0.132	0.148
Other activities, HS graduate	workK12Bin9	-1.041	0.157	-0.284	0.137
Other activities, HS graduate	workCollegeBin1	0.539	0.125	0.108	0.126
Other activities, HS graduate	workCollegeBin2	0.372	0.134	-0.445	0.146
Other activities, HS graduate	workCollegeBin4	-0.205	0.176	-0.119	0.165
Other activities, HS graduate	workCollegeBin5	0.068	0.217	-0.168	0.210
Other activities, HS graduate	workCollegeBin6	0.389	0.250	-0.051	0.254
Other activities, HS graduate	workCollegeBin7	-0.347	0.257	0.427	0.225
Other activities, HS graduate	workCollegeBin8	-0.891	0.433	0.519	0.291
Other activities, HS graduate	workCollegeBin9	-0.940	0.527	0.533	0.342
Other activities, HS graduate	workPTonlyBin1	-0.464	0.139	-0.346	0.140
Other activities, HS graduate	workPTonlyBin2	-0.337	0.142	-0.060	0.157
Other activities, HS graduate	workPTonlyBin3	-0.106	0.151	0.022	0.163
Other activities, HS graduate	workPTonlyBin5	0.024	0.258	-0.003	0.239
Other activities, HS graduate	workPTonlyBin6	0.060	0.284	-0.284	0.219
Other activities, HS graduate	workPTonlyBin7	-0.193	0.259	-0.676	0.213

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Other activities, HS graduate	workPTonlyBin8	-0.110	0.404	-0.273	0.347
Other activities, HS graduate	workPTonlyBin9	-0.202	0.293	-0.309	0.240
Other activities, HS graduate	workFTonlyBin1	-1.131	0.169	-0.728	0.138
Other activities, HS graduate	workFTonlyBin2	-0.510	0.187	0.147	0.165
Other activities, HS graduate	workFTonlyBin4	0.240	0.274	-0.035	0.198
Other activities, HS graduate	workFTonlyBin5	-0.264	0.249	-0.157	0.224
Other activities, HS graduate	workFTonlyBin6	0.464	0.354	0.313	0.253
Other activities, HS graduate	workFTonlyBin7	0.060	0.360	0.260	0.381
Other activities, HS graduate	workFTonlyBin8	-0.017	0.400	0.399	0.347
Other activities, HS graduate	workFTonlyBin9	0.262	0.278	0.974	0.334
Other activities, HS graduate	militaryBin1	0.425	0.311	1.946	0.285
Other activities, HS graduate	militaryBin2	-0.339	0.412	1.423	0.445
Other activities, HS graduate	militaryBin4	0.404	0.366	2.048	0.387
Other activities, HS graduate	militaryBin5	0.705	0.331	2.039	0.312
Other activities, HS graduate	otherBin1	-2.856	0.125	-2.852	0.130
Other activities, HS graduate	otherBin2	-1.601	0.117	-1.305	0.131
Other activities, HS graduate	otherBin3	-0.838	0.111	-0.466	0.135
Other activities, HS graduate	otherBin5	0.045	0.158	0.427	0.195
Other activities, HS graduate	otherBin6	0.339	0.175	0.631	0.197
Other activities, HS graduate	otherBin7	0.438	0.209	0.997	0.236
Other activities, HS graduate	otherBin8	0.548	0.275	1.326	0.309
Other activities, HS graduate	otherBin9	0.804	0.268	1.297	0.292
Other activities, HS graduate	cons	2.748	0.548	1.590	0.671
Graduate 4-year College	black	-0.267	0.388	-1.849	0.473
Graduate 4-year College	hispanic	-0.451	0.607	0.072	0.369
Graduate 4-year College	birthYear2	0.260	0.228	0.147	0.142
Graduate 4-year College	birthYear2	0.260	0.228	0.147	0.142
Graduate 4-year College	birthYear3	0.238	0.169	0.045	0.135
Graduate 4-year College	birthYear4	0.031	0.173	0.128	0.140
Graduate 4-year College	birthYear5	0.144	0.160		
Graduate 4-year College	foreignBorn	-0.764	0.266	-0.024	0.198
Graduate 4-year College	employment percentage	-0.340	0.249	0.259	0.239
Graduate 4-year College	income per capita	0.113	0.020	0.013	0.010
Graduate 4-year College	schoolOnlyBlack	-0.129	0.109	0.314	0.090
Graduate 4-year College	schoolOnlyHisp	0.042	0.185	-0.125	0.084
Graduate 4-year College	workK12Black	0.073	0.224	0.326	0.188
Graduate 4-year College	workK12Hisp	0.147	0.352	-0.017	0.216
Graduate 4-year College	workCollegeBlack	-0.052	0.123	0.182	0.127
Graduate 4-year College	workCollegeHisp	-0.115	0.128	-0.184	0.085
Graduate 4-year College	workPTBlack	0.646	0.251	-0.339	0.311
Graduate 4-year College	workPTHisp	0.317	0.292	0.311	0.130
Graduate 4-year College	workFTBlack	-0.042	0.130	0.235	0.072
Graduate 4-year College	workFTHisp	-0.436	0.207	0.106	0.088
Graduate 4-year College	otherBlack	-0.063	0.171	-0.167	0.229
Graduate 4-year College	otherHisp	-0.026	0.177	-0.001	0.213
Graduate 4-year College	hgcMoth	0.178	0.113	0.057	0.116
Graduate 4-year College	hgcMothSq	-0.069	0.043	-0.008	0.041
Graduate 4-year College	m_hgcMoth	1.446	0.789	0.498	0.830
Graduate 4-year College	hgcFath	-0.018	0.081	0.057	0.105
Graduate 4-year College	hgcFathSq	0.007	0.031	-0.015	0.037
Graduate 4-year College	m_hgcFath	-0.152	0.556	0.688	0.749
Graduate 4-year College	famInc	-0.039	0.072	0.004	0.051
Graduate 4-year College	famIncSq	0.027	0.062	-0.008	0.030
Graduate 4-year College	m_famInc	-0.034	0.206	0.133	0.167

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Graduate 4-year College	femaleHeadedHH14	-0.277	0.206	-0.175	0.127
Graduate 4-year College	liveWithMom14	0.611	0.383	0.111	0.168
Graduate 4-year College	numBAzero	0.453	0.191	-0.146	0.132
Graduate 4-year College	numBAperCapita	0.106	0.024	0.001	0.006
Graduate 4-year College	flagshipTuition	0.100	0.047	-0.021	0.024
Graduate 4-year College	schoolOnlyBin1	-0.217	0.206	0.513	0.182
Graduate 4-year College	schoolOnlyBin2	-0.373	0.204	-0.044	0.179
Graduate 4-year College	schoolOnlyBin3	-0.347	0.185	0.050	0.152
Graduate 4-year College	schoolOnlyBin5	0.115	0.164	-0.140	0.139
Graduate 4-year College	schoolOnlyBin6	1.050	0.189	-0.004	0.167
Graduate 4-year College	schoolOnlyBin7	1.878	0.246	0.313	0.199
Graduate 4-year College	schoolOnlyBin8	2.246	0.338	0.837	0.261
Graduate 4-year College	schoolOnlyBin9	3.596	0.433	0.559	0.330
Graduate 4-year College	workK12Bin1	-0.528	0.241	-0.027	0.176
Graduate 4-year College	workK12Bin2	-0.214	0.260	0.133	0.223
Graduate 4-year College	workK12Bin4	0.014	0.283	0.153	0.238
Graduate 4-year College	workK12Bin5	0.358	0.253	-0.186	0.320
Graduate 4-year College	workK12Bin6	0.229	0.266	-0.104	0.226
Graduate 4-year College	workK12Bin7	0.665	0.298	0.066	0.246
Graduate 4-year College	workK12Bin8	0.512	0.257	0.201	0.189
Graduate 4-year College	workK12Bin9	0.742	0.260	0.144	0.195
Graduate 4-year College	workCollegeBin1	-1.971	0.153	-2.273	0.183
Graduate 4-year College	workCollegeBin2	-0.714	0.163	-0.864	0.182
Graduate 4-year College	workCollegeBin4	0.515	0.180	0.187	0.184
Graduate 4-year College	workCollegeBin5	1.273	0.200	0.836	0.190
Graduate 4-year College	workCollegeBin6	2.064	0.260	1.647	0.205
Graduate 4-year College	workCollegeBin7	2.878	0.276	2.566	0.190
Graduate 4-year College	workCollegeBin8	3.107	0.344	3.052	0.252
Graduate 4-year College	workCollegeBin9	3.107	0.344	3.027	0.306
Graduate 4-year College	workPTonlyBin1	0.187	0.215	0.519	0.221
Graduate 4-year College	workPTonlyBin2	0.165	0.209	0.322	0.242
Graduate 4-year College	workPTonlyBin3	0.077	0.223	0.100	0.300
Graduate 4-year College	workPTonlyBin5	-0.023	0.389	-0.380	0.453
Graduate 4-year College	workPTonlyBin6	0.040	0.413	-0.167	0.406
Graduate 4-year College	workPTonlyBin7	-1.542	0.538	0.106	0.365
Graduate 4-year College	workPTonlyBin8	-1.542	0.538	0.799	0.448
Graduate 4-year College	workPTonlyBin9	-1.542	0.538	0.029	0.356
Graduate 4-year College	workFTonlyBin1	0.606	0.284	0.324	0.234
Graduate 4-year College	workFTonlyBin2	0.379	0.304	-0.376	0.275
Graduate 4-year College	workFTonlyBin4	-0.078	0.480	-0.624	0.284
Graduate 4-year College	workFTonlyBin5	-0.304	0.350	-0.624	0.284
Graduate 4-year College	workFTonlyBin6	-0.304	0.350	-0.624	0.284
Graduate 4-year College	workFTonlyBin7	-0.304	0.350	-0.624	0.284
Graduate 4-year College	workFTonlyBin8	-0.304	0.350	-0.624	0.284
Graduate 4-year College	workFTonlyBin9	-0.304	0.350	-0.624	0.284
Graduate 4-year College	otherBin1	0.555	0.320	0.261	0.228
Graduate 4-year College	otherBin2	0.690	0.298	0.180	0.228
Graduate 4-year College	otherBin3	0.377	0.293	0.077	0.225
Graduate 4-year College	otherBin5	-0.404	0.683	0.164	0.322
Graduate 4-year College	otherBin6	-0.324	0.538	-0.204	0.401
Graduate 4-year College	otherBin7	-0.906	0.882	-1.384	0.564
Graduate 4-year College	otherBin8	-0.906	0.882	-1.384	0.564
Graduate 4-year College	otherBin9	-0.906	0.882	-1.384	0.564
Graduate 4-year College	_cons	-8.332	1.045	-6.288	0.859

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work in Graduate School	black	-0.857	1.224	0.013	1.410
Work in Graduate School	hispanic	2.050	1.315	-0.188	1.094
Work in Graduate School	birthYear2	0.496	0.398	-0.423	0.351
Work in Graduate School	birthYear2	0.496	0.398	-0.423	0.351
Work in Graduate School	birthYear3	1.155	0.363	-0.690	0.357
Work in Graduate School	birthYear4	0.879	0.314	-0.779	0.338
Work in Graduate School	birthYear5	0.844	0.328		
Work in Graduate School	foreignBorn	-0.338	0.370	0.069	0.352
Work in Graduate School	employment percentage	0.359	0.429	-1.135	0.532
Work in Graduate School	income per capita	-0.047	0.031	0.058	0.023
Work in Graduate School	schoolOnlyBlack	0.153	0.201	-0.308	0.195
Work in Graduate School	schoolOnlyHisp	-0.242	0.204	-0.143	0.150
Work in Graduate School	workK12Black	0.138	0.344	-0.068	0.523
Work in Graduate School	workK12Hisp	-1.093	0.457	-0.002	0.449
Work in Graduate School	workCollegeBlack	-0.200	0.203	0.377	0.156
Work in Graduate School	workCollegeHisp	-0.320	0.214	0.223	0.128
Work in Graduate School	workPTBlack	1.549	0.601	0.120	0.444
Work in Graduate School	workPTHisp	-0.634	0.353	0.325	0.378
Work in Graduate School	workFTBlack	0.090	0.135	0.060	0.230
Work in Graduate School	workFTHisp	0.163	0.190	-0.466	0.203
Work in Graduate School	otherBlack	-0.503	0.249	0.845	0.416
Work in Graduate School	otherHisp	1.605	0.711	0.738	0.614
Work in Graduate School	hgcMoth	-0.345	0.138	-0.299	0.267
Work in Graduate School	hgcMothSq	0.128	0.052	0.211	0.092
Work in Graduate School	m_hgcMoth	-3.068	1.073	1.854	1.970
Work in Graduate School	hgcFath	0.276	0.148	-0.145	0.200
Work in Graduate School	hgcFathSq	-0.150	0.054	0.022	0.068
Work in Graduate School	m_hgcFath	0.357	1.036	-2.511	1.467
Work in Graduate School	famInc	-0.178	0.133	0.301	0.103
Work in Graduate School	famIncSq	0.090	0.104	-0.163	0.057
Work in Graduate School	m famInc	-0.456	0.370	-0.410	0.400
Work in Graduate School	_ femaleHeadedHH14	-0.621	0.286	1.078	0.306
Work in Graduate School	liveWithMom14	-0.052	0.404	0.127	0.425
Work in Graduate School	numBAzero	0.359	0.347	0.475	0.309
Work in Graduate School	numBAperCapita	-0.038	0.056	0.228	0.093
Work in Graduate School	flagshipTuition	0.005	0.083	-0.007	0.051
Work in Graduate School	schoolOnlyBin1	0.482	0.443	2.151	0.680
Work in Graduate School	schoolOnlyBin2	0.369	0.439	1.184	0.444
Work in Graduate School	schoolOnlyBin3	0.007	0.429	0.602	0.449
Work in Graduate School	schoolOnlyBin5	-0.048	0.372	-0.524	0.322
Work in Graduate School	schoolOnlyBin6	-0.934	0.384	-1.232	0.349
Work in Graduate School	schoolOnlyBin7	-0.608	0.427	-1.376	0.413
Work in Graduate School	schoolOnlyBin8	-0.978	0.475	-2.111	0.468
Work in Graduate School	schoolOnlyBin9	-1.391	0.511	-2.168	0.522
Work in Graduate School	workK12Bin1	0.170	0.404	0.094	0.356
Work in Graduate School	workK12Bin2	-0.261	0.443	0.147	0.476
Work in Graduate School	workK12Bin4	0.244	0.476	0.739	0.452
Work in Graduate School	workK12Bin5	-0.047	0.498	-1.057	0.456
Work in Graduate School	workK12Bin6	0.720	0.548	-1.232	0.419
Work in Graduate School	workK12Bin7	0.366	0.684	0.057	0.444
Work in Graduate School	workK12Bin8	-0.108	0.515	-0.800	0.409
Work in Graduate School	workK12Bin9	-0.487	0.497	-1.027	0.382
Work in Graduate School	workCollegeBin1	-1.246	0.397	-1.304	0.396
Work in Graduate School	workCollegeBin2	-0.494	0.334	0.390	0.356

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work in Graduate School	workCollegeBin4	0.261	0.353	1.071	0.350
Work in Graduate School	workCollegeBin5	0.334	0.340	0.921	0.329
Work in Graduate School	workCollegeBin6	0.877	0.378	0.939	0.379
Work in Graduate School	workCollegeBin7	1.144	0.364	1.545	0.316
Work in Graduate School	workCollegeBin8	1.751	0.519	1.781	0.372
Work in Graduate School	workCollegeBin9	2.116	0.457	2.549	0.401
Work in Graduate School	workPTonlyBin1	-0.766	0.440	0.440	0.405
Work in Graduate School	workPTonlyBin2	-0.460	0.432	0.151	0.397
Work in Graduate School	workPTonlyBin3	-0.729	0.446	0.243	0.427
Work in Graduate School	workPTonlyBin5	-0.135	0.801	-1.185	0.559
Work in Graduate School	workPTonlyBin6	-1.024	0.504	0.467	0.576
Work in Graduate School	workPTonlyBin7	-1.024	0.504	-0.868	0.511
Work in Graduate School	workPTonlyBin8	-1.024	0.504	0.106	0.632
Work in Graduate School	workPTonlyBin9	-1.024	0.504	-0.502	0.575
Work in Graduate School	workFTonlyBin1	-0.684	0.329	-1.139	0.279
Work in Graduate School	workFTonlyBin2	-0.555	0.364	-0.742	0.327
Work in Graduate School	workFTonlyBin4	0.268	0.450	0.588	0.445
Work in Graduate School	workFTonlyBin5	-0.387	0.523	0.310	0.380
Work in Graduate School	workFTonlyBin6	0.668	0.420	0.310	0.380
Work in Graduate School	workFTonlyBin7	0.668	0.420	0.310	0.380
Work in Graduate School	workFTonlyBin8	0.668	0.420	0.310	0.380
Work in Graduate School	workFTonlyBin9	0.668	0.420	0.310	0.380
Work in Graduate School	otherBin1	-1.186	0.411	1.963	0.375
Work in Graduate School	otherBin2	-1.394	0.393	1.325	0.357
Work in Graduate School	otherBin3	-0.602	0.354	1.147	0.348
Work in Graduate School	otherBin5	0.461	0.464	0.315	0.509
Work in Graduate School	otherBin6	0.111	0.553	1.051	0.468
Work in Graduate School	otherBin7	0.111	0.553	1.051	0.468
Work in Graduate School	otherBin8	0.111	0.553	1.051	0.468
Work in Graduate School	otherBin9	0.111	0.553	1.051	0.468
Work in Graduate School	_cons	5.547	1.401	-0.173	1.797
Work PT, BA graduate	black	-1.079	1.163	-0.672	1.285
Work PT, BA graduate	hispanic	0.517	1.368	-0.765	1.281
Work PT, BA graduate	birthYear2	-0.334	0.362	-1.579	0.323
Work PT, BA graduate	birthYear2	-0.334	0.362	-1.579	0.323
Work PT, BA graduate	birthYear3	0.019	0.360	-1.716	0.320
Work PT, BA graduate	birthYear4	-0.209	0.312	-1.357	0.321
Work PT, BA graduate	birthYear5	-0.175	0.328		
Work PT, BA graduate	foreignBorn	-0.364	0.388	0.513	0.345
Work PT, BA graduate	employment percentage	0.690	0.402	-1.150	0.447
Work PT, BA graduate	income per capita	-0.037	0.029	0.070	0.020
Work PT, BA graduate	schoolOnlyBlack	0.371	0.178	-0.390	0.184
Work PT, BA graduate	schoolOnlyHisp	-0.180	0.208	-0.362	0.151
Work PT, BA graduate	workK12Black	0.184	0.336	0.387	0.384
Work PT, BA graduate	workK12Hisp	-1.219	0.436	-0.005	0.482
Work PT, BA graduate	workCollegeBlack	-0.250	0.204	0.434	0.140
Work PT, BA graduate	workCollegeHisp	-0.094	0.212	0.160	0.141
Work PT, BA graduate	workPTBlack	1.831	0.600	0.420	0.283
Work PT, BA graduate	workPTHisp	-0.189	0.450	0.746	0.323
Work PT, BA graduate	workFTBlack	0.116	0.127	-0.010	0.226
Work PT, BA graduate	workFTHisp	0.223	0.194	-0.005	0.243
Work PT, BA graduate	otherBlack	-0.360	0.246	1.030	0.287
Work PT, BA graduate	otherHisp	1.562	0.643	0.887	0.723
Work PT, BA graduate	hgcMoth	-0.448	0.137	-0.358	0.219

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work PT, BA graduate	hgcMothSq	0.158	0.051	0.233	0.077
Work PT, BA graduate	m_hgcMoth	-4.180	1.067	1.151	1.635
Work PT, BA graduate	hgcFath	0.346	0.148	0.175	0.178
Work PT, BA graduate	hgcFathSq	-0.122	0.053	-0.060	0.060
Work PT, BA graduate	m_hgcFath	1.394	1.040	0.959	1.298
Work PT, BA graduate	famInc	-0.145	0.129	0.335	0.096
Work PT, BA graduate	famIncSq	0.080	0.103	-0.114	0.052
Work PT, BA graduate	m famInc	-0.371	0.380	-0.658	0.358
Work PT, BA graduate	_ femaleHeadedHH14	-0.516	0.283	1.091	0.266
Work PT, BA graduate	liveWithMom14	-0.005	0.456	0.235	0.340
Work PT, BA graduate	numBAzero	-0.114	0.358	0.240	0.276
Work PT, BA graduate	numBAperCapita	0.027	0.056	0.273	0.087
Work PT, BA graduate	flagshipTuition	-0.217	0.080	-0.058	0.045
Work PT, BA graduate	schoolOnlyBin1	1.132	0.481	2.078	0.693
Work PT, BA graduate	schoolOnlyBin2	1.074	0.504	1.521	0.443
Work PT, BA graduate	schoolOnlyBin3	0.576	0.443	0.950	0.457
Work PT, BA graduate	schoolOnlyBin5	-0.005	0.407	-1.005	0.319
Work PT, BA graduate	schoolOnlyBin6	-0.972	0.433	-1.879	0.355
Work PT, BA graduate	schoolOnlyBin7	-1.244	0.471	-3.180	0.408
Work PT, BA graduate	schoolOnlyBin8	-1.990	0.504	-4.001	0.441
Work PT, BA graduate	schoolOnlyBin9	-2.782	0.531	-3.154	0.416
Work PT, BA graduate	workK12Bin1	-0.540	0.391	0.656	0.312
Work PT, BA graduate	workK12Bin2	-0.990	0.460	0.871	0.445
Work PT, BA graduate	workK12Bin4	-0.802	0.462	0.124	0.418
Work PT, BA graduate	workK12Bin5	-1.207	0.494	-1.545	0.367
Work PT, BA graduate	workK12Bin6	-0.441	0.541	-1.015	0.339
Work PT, BA graduate	workK12Bin7	-0.821	0.643	0.024	0.431
Work PT, BA graduate	workK12Bin8	-1.561	0.503	-1.553	0.364
Work PT, BA graduate	workK12Bin9	-1.692	0.506	-1.691	0.334
Work PT, BA graduate	workCollegeBin1	1.149	0.348	-0.569	0.404
Work PT, BA graduate	workCollegeBin2	0.484	0.302	0.603	0.355
Work PT, BA graduate	workCollegeBin4	0.315	0.318	0.136	0.380
Work PT, BA graduate	workCollegeBin5	-0.305	0.342	0.137	0.327
Work PT, BA graduate	workCollegeBin6	0.381	0.389	0.485	0.365
Work PT, BA graduate	workCollegeBin7	0.115	0.343	0.344	0.301
Work PT, BA graduate	workCollegeBin8	0.340	0.465	0.119	0.357
Work PT, BA graduate	workCollegeBin9	0.280	0.491	0.250	0.393
Work PT, BA graduate	workPTonlyBin1	-2.526	0.420	-1.879	0.316
Work PT, BA graduate	workPTonlyBin2	-1.798	0.408	-1.403	0.311
Work PT, BA graduate	workPTonlyBin3	-1.233	0.425	-0.895	0.341
Work PT, BA graduate	workPTonlyBin5	-0.259	0.727	-0.594	0.485
Work PT, BA graduate	workPTonlyBin6	-0.327	0.489	0.143	0.537
Work PT, BA graduate	workPTonlyBin7	-0.327	0.489	-0.266	0.462
Work PT, BA graduate	workPTonlyBin8	-0.327	0.489	-0.356	0.617
Work PT, BA graduate	workPTonlyBin9	-0.327	0.489	0.200	0.452
Work PT, BA graduate	workFTonlyBin1	-0.407	0.320	-0.362	0.259
Work PT, BA graduate	workFTonlyBin2	-0.212	0.356	-0.038	0.306
Work PT, BA graduate	workFTonlyBin4	0.569	0.454	1.348	0.430
Work PT, BA graduate	workFTonlyBin5	0.032	0.504	0.597	0.363
Work PT, BA graduate	workFTonlyBin6	1.335	0.414	0.418	0.405
Work PT, BA graduate	workFTonlyBin7	1.335	0.414	0.403	0.398
Work PT, BA graduate	workFTonlyBin8	1.335	0.414	0.403	0.398
Work PT, BA graduate	workFTonlyBin9	1.335	0.414	0.403	0.398
Work PT, BA graduate	otherBin1	-1.050	0.426	2.180	0.369
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Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work PT, BA graduate	otherBin2	-1.220	0.388	1.221	0.356
Work PT, BA graduate	otherBin3	-0.656	0.350	1.118	0.337
Work PT, BA graduate	otherBin5	-0.557	0.479	0.914	0.405
Work PT, BA graduate	otherBin6	-0.193	0.535	0.914	0.405
Work PT, BA graduate	otherBin7	-0.193	0.535	0.914	0.405
Work PT, BA graduate	otherBin8	-0.193	0.535	0.914	0.405
Work PT, BA graduate	otherBin9	-0.193	0.535	0.914	0.405
Work PT, BA graduate	_cons	6.426	1.434	-1.628	1.582
Work FT, BA graduate	black	-0.259	1.154	-0.336	1.305
Work FT, BA graduate	hispanic	0.350	1.384	0.413	1.289
Work FT, BA graduate	birthYear2	-0.122	0.360	-1.515	0.296
Work FT, BA graduate	birthYear2	-0.122	0.360	-1.515	0.296
Work FT, BA graduate	birthYear3	0.509	0.347	-1.628	0.291
Work FT, BA graduate	birthYear4	0.138	0.295	-1.419	0.292
Work FT, BA graduate	birthYear5	0.050	0.309		
Work FT, BA graduate	foreignBorn	-0.059	0.367	0.234	0.293
Work FT, BA graduate	employment percentage	0.438	0.383	-1.406	0.432
Work FT, BA graduate	income per capita	-0.034	0.027	0.074	0.019
Work FT, BA graduate	schoolOnlyBlack	0.286	0.169	-0.485	0.190
Work FT, BA graduate	schoolOnlyHisp	-0.142	0.209	-0.568	0.151
Work FT, BA graduate	workK12Black	0.132	0.321	0.202	0.385
Work FT, BA graduate	workK12Hisp	-0.687	0.400	-0.220	0.407
Work FT, BA graduate	workCollegeBlack	-0.288	0.197	0.350	0.135
Work FT, BA graduate	workCollegeHisp	-0.219	0.208	0.064	0.138
Work FT, BA graduate	workPTBlack	1.641	0.603	0.253	0.304
Work FT, BA graduate	workPTHisp	-0.141	0.432	0.551	0.313
Work FT, BA graduate	workFTBlack	0.173	0.125	0.168	0.225
Work FT, BA graduate	workFTHisp	0.234	0.181	0.075	0.226
Work FT, BA graduate	otherBlack	-0.570	0.277	0.837	0.286
Work FT, BA graduate	otherHisp	1.584	0.665	0.875	0.711
Work FT, BA graduate	hgcMoth	-0.265	0.132	-0.534	0.205
Work FT, BA graduate	hgcMothSq	0.101	0.050	0.299	0.072
Work FT, BA graduate	m_hgcMoth	-2.655	1.011	0.088	1.516
Work FT, BA graduate	hgcFath	0.256	0.143	0.353	0.159
Work FT, BA graduate	hgcFathSq	-0.075	0.051	-0.126	0.054
Work FT, BA graduate	m_hgcFath	0.989	1.008	1.796	1.153
Work FT, BA graduate	famInc	-0.053	0.124	0.225	0.083
Work FT, BA graduate	famIncSq	0.040	0.098	-0.044	0.046
Work FT, BA graduate	m_famInc	-0.146	0.354	-1.215	0.319
Work FT, BA graduate	femaleHeadedHH14	-0.435	0.258	1.023	0.251
Work FT, BA graduate	liveWithMom14	0.382	0.405	0.231	0.318
Work FT, BA graduate	numBAzero	0.377	0.341	0.322	0.260
Work FT, BA graduate	numBAperCapita	0.089	0.054	0.277	0.086
Work FT, BA graduate	flagshipTuition	-0.201	0.076	-0.042	0.041
Work FT, BA graduate	schoolOnlyBin1	1.182	0.441	2.055	0.696
Work FT, BA graduate	schoolOnlyBin2	0.603	0.444	1.336	0.411
Work FT, BA graduate	schoolOnlyBin3	0.566	0.410	0.829	0.438
Work FT, BA graduate	schoolOnlyBin5	-0.270	0.384	-1.067	0.291
Work FT, BA graduate	schoolOnlyBin6	-1.043	0.415	-2.003	0.328
Work FT, BA graduate	schoolOnlyBin7	-1.612	0.458	-3.124	0.393
Work FT, BA graduate	schoolOnlyBin8	-2.207	0.476	-3.878	0.425
Work FT, BA graduate	schoolOnlyBin9	-2.554	0.500	-2.487	0.383
Work FT, BA graduate	workK12Bin1	-0.712	0.374	0.387	0.297
Work FT, BA graduate	workK12Bin2	-1.086	0.429	1.181	0.355

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Work FT, BA graduate	workK12Bin4	-1.348	0.445	0.084	0.408
Work FT, BA graduate	workK12Bin5	-1.627	0.445	-1.475	0.346
Work FT, BA graduate	workK12Bin6	-0.569	0.519	-1.296	0.320
-	workK12Bin7	-0.939	0.634	0.232	0.320
Work FT, BA graduate			0.034		0.383
Work FT, BA graduate	workK12Bin8	-1.517		-1.548	
Nork FT, BA graduate	workK12Bin9	-1.644	0.450	-1.632	0.316
Nork FT, BA graduate	workCollegeBin1	1.022	0.352	-0.819	0.380
Nork FT, BA graduate	workCollegeBin2	0.412	0.297	0.803	0.333
Nork FT, BA graduate	workCollegeBin4	0.168	0.312	0.264	0.335
Vork FT, BA graduate	workCollegeBin5	0.078	0.327	0.413	0.319
Vork FT, BA graduate	workCollegeBin6	0.491	0.367	1.100	0.340
Vork FT, BA graduate	workCollegeBin7	0.166	0.336	0.876	0.292
Vork FT, BA graduate	workCollegeBin8	0.367	0.506	0.700	0.337
Vork FT, BA graduate	workCollegeBin9	0.552	0.480	1.255	0.371
Vork FT, BA graduate	workPTonlyBin1	-1.333	0.430	-0.246	0.309
Vork FT, BA graduate	workPTonlyBin2	-0.824	0.417	-0.355	0.298
Vork FT, BA graduate	workPTonlyBin3	-0.616	0.430	-0.366	0.338
Vork FT, BA graduate	workPTonlyBin5	-0.433	0.748	-0.667	0.451
Vork FT, BA graduate	workPTonlyBin6	-1.299	0.484	-0.022	0.520
Vork FT, BA graduate	workPTonlyBin7	-1.299	0.484	-1.245	0.450
Vork FT, BA graduate	workPTonlyBin8	-1.299	0.484	-0.766	0.634
Vork FT, BA graduate	workPTonlyBin9	-1.299	0.484	-1.308	0.446
Vork FT, BA graduate	workFTonlyBin1	-2.629	0.320	-2.077	0.248
Vork FT, BA graduate	workFTonlyBin2	-0.824	0.341	-0.288	0.292
Vork FT, BA graduate	workFTonlyBin4	0.804	0.439	1.588	0.292
-	-	0.436	0.439	1.303	0.400
Vork FT, BA graduate	workFTonlyBin5				
Vork FT, BA graduate	workFTonlyBin6	1.954	0.413	1.303	0.354
Vork FT, BA graduate	workFTonlyBin7	1.954	0.413	1.303	0.354
Vork FT, BA graduate	workFTonlyBin8	1.954	0.413	1.303	0.354
Vork FT, BA graduate	workFTonlyBin9	1.954	0.413	1.303	0.354
Vork FT, BA graduate	otherBin1	-0.222	0.399	2.405	0.340
Vork FT, BA graduate	otherBin2	-0.724	0.377	1.224	0.330
Vork FT, BA graduate	otherBin3	-0.319	0.344	1.240	0.319
Vork FT, BA graduate	otherBin5	-0.522	0.451	0.727	0.417
Vork FT, BA graduate	otherBin6	-0.324	0.556	0.790	0.368
Vork FT, BA graduate	otherBin7	-0.324	0.556	0.790	0.368
Vork FT, BA graduate	otherBin8	-0.324	0.556	0.790	0.368
Vork FT, BA graduate	otherBin9	-0.324	0.556	0.790	0.368
Vork FT, BA graduate	cons	6.065	1.339	-0.452	1.399
/ilitary, BA graduate	black	2.517	0.553	2.418	0.579
/ilitary, BA graduate	birthYear2	-2.005	0.774	1.117	0.843
/ilitary, BA graduate	birthYear2	-2.005	0.774	1.117	0.843
Ailitary, BA graduate	birthYear3	0.294	0.765	0.835	0.879
Military, BA graduate	birthYear4	1.718	0.750	1.057	0.889
/ilitary, BA graduate	birthYear5	-0.591	0.860		
/ilitary, BA graduate		-14.419	1.988	-1.844	0.901
Other activities, BA graduate	cons black	-14.419	1.966	-0.442	1.533
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Other activities, BA graduate	hispanic hirthVaar2	-1.094	1.442	0.360	1.365
Other activities, BA graduate	birthYear2	-0.416	0.370	-2.047	0.326
Other activities, BA graduate	birthYear2	-0.416	0.370	-2.047	0.326
Other activities, BA graduate	birthYear3	0.222	0.367	-1.638	0.335
Manual and station of the second second	birthYear4	-0.108	0.309	-1.529	0.324
Other activities, BA graduate					
Other activities, BA graduate Other activities, BA graduate Other activities, BA graduate	birthYear5 foreignBorn	0.009 -0.347	0.336 0.395	 0.165	 0.384

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Other activities, BA graduate	employment percentage	0.142	0.416	-0.955	0.479
Other activities, BA graduate	income per capita	-0.007	0.028	0.067	0.021
Other activities, BA graduate	schoolOnlyBlack	0.367	0.164	-0.494	0.239
Other activities, BA graduate	schoolOnlyHisp	-0.039	0.221	-0.555	0.158
Other activities, BA graduate	workK12Black	0.187	0.345	0.597	0.397
Other activities, BA graduate	workK12Hisp	-0.428	0.491	0.125	0.489
Other activities, BA graduate	workCollegeBlack	-0.178	0.194	0.349	0.176
Other activities, BA graduate	workCollegeHisp	0.151	0.233	0.108	0.151
Other activities, BA graduate	workPTBlack	1.517	0.598	0.476	0.280
Other activities, BA graduate	workPTHisp	-0.395	0.488	0.841	0.328
Other activities, BA graduate	workFTBlack	0.116	0.124	0.079	0.233
Other activities, BA graduate	workFTHisp	0.240	0.191	-0.233	0.229
Other activities, BA graduate	otherBlack	-0.135	0.221	0.891	0.281
Other activities, BA graduate	otherHisp	1.458	0.649	0.633	0.720
Other activities, BA graduate	hgcMoth	-0.474	0.137	-0.564	0.247
Other activities, BA graduate	hgcMothSq	0.170	0.052	0.305	0.086
Other activities, BA graduate	m_hgcMoth	-3.655	1.064	-0.123	1.842
Other activities, BA graduate	hgcFath	0.369	0.140	0.377	0.182
Other activities, BA graduate	hgcFathSq	-0.120	0.050	-0.166	0.062
Other activities, BA graduate	m_hgcFath	1.639	0.988	1.384	1.316
Other activities, BA graduate	famInc	-0.131	0.128	0.206	0.103
Other activities, BA graduate	famIncSq	0.050	0.103	-0.013	0.056
Other activities, BA graduate	m_famInc	-0.371	0.369	-0.942	0.386
Other activities, BA graduate	femaleHeadedHH14	-0.433	0.271	1.152	0.292
Other activities, BA graduate	liveWithMom14	-0.435	0.271	-0.284	0.232
Other activities, BA graduate	numBAzero	0.080	0.437	-0.284 0.573	0.372
-		0.080	0.056	0.373	0.291
Other activities, BA graduate	numBAperCapita flagobinTuition	-0.198	0.030		
Other activities, BA graduate	flagshipTuition			-0.009	0.052
Other activities, BA graduate	schoolOnlyBin1	1.206	0.571	2.362	0.745
Other activities, BA graduate	schoolOnlyBin2	0.556	0.471	1.457	0.425
Other activities, BA graduate	schoolOnlyBin3	0.526	0.450	0.896	0.465
Other activities, BA graduate	schoolOnlyBin5	-0.473	0.413	-1.144	0.333
Other activities, BA graduate	schoolOnlyBin6	-1.270	0.436	-1.949	0.372
Other activities, BA graduate	schoolOnlyBin7	-1.818	0.465	-3.247	0.446
Other activities, BA graduate	schoolOnlyBin8	-2.366	0.492	-3.672	0.467
Other activities, BA graduate	schoolOnlyBin9	-3.017	0.510	-2.805	0.421
Other activities, BA graduate	workK12Bin1	-0.360	0.411	0.807	0.357
Other activities, BA graduate	workK12Bin2	-0.777	0.466	1.468	0.455
Other activities, BA graduate	workK12Bin4	-0.742	0.482	0.776	0.465
Other activities, BA graduate	workK12Bin5	-0.856	0.500	-1.019	0.443
Other activities, BA graduate	workK12Bin6	-0.397	0.501	-0.484	0.466
Other activities, BA graduate	workK12Bin7	-0.346	0.660	-0.267	0.670
Other activities, BA graduate	workK12Bin8	-1.233	0.543	-0.414	0.426
Other activities, BA graduate	workK12Bin9	-1.208	0.505	-0.543	0.413
Other activities, BA graduate	workCollegeBin1	0.904	0.323	-0.287	0.414
Other activities, BA graduate	workCollegeBin2	-0.008	0.283	0.351	0.370
Other activities, BA graduate	workCollegeBin4	0.040	0.302	-0.122	0.400
Other activities, BA graduate	workCollegeBin5	-0.400	0.318	0.044	0.363
Other activities, BA graduate	workCollegeBin6	0.029	0.395	0.126	0.388
Other activities, BA graduate	workCollegeBin7	-0.236	0.356	0.186	0.331
Other activities, BA graduate	workCollegeBin8	-0.683	0.533	0.446	0.383
Other activities, BA graduate	workCollegeBin9	-0.567	0.514	0.418	0.380
Other activities, BA graduate	workPTonlyBin1	-0.853	0.416	0.070	0.381
Other activities, BA graduate	workPTonlyBin2	-0.688	0.411	-0.144	0.377
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Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Other activities, BA graduate	workPTonlyBin3	-0.353	0.426	-0.014	0.413
Other activities, BA graduate	workPTonlyBin5	-0.117	0.748	-1.506	0.593
Other activities, BA graduate	workPTonlyBin6	-0.918	0.483	-0.207	0.607
Other activities, BA graduate	workPTonlyBin7	-0.918	0.483	-0.739	0.554
Other activities, BA graduate	workPTonlyBin8	-0.918	0.483	-0.898	0.701
Other activities, BA graduate	workPTonlyBin9	-0.918	0.483	-1.269	0.510
Other activities, BA graduate	workFTonlyBin1	-0.347	0.324	-0.457	0.283
Other activities, BA graduate	workFTonlyBin2	-0.525	0.347	-0.189	0.321
Other activities, BA graduate	workFTonlyBin4	0.633	0.457	1.703	0.427
Other activities, BA graduate	workFTonlyBin5	-0.062	0.516	1.285	0.378
Other activities, BA graduate	workFTonlyBin6	1.335	0.426	1.285	0.378
Other activities, BA graduate	workFTonlyBin7	1.335	0.426	1.285	0.378
Other activities, BA graduate	workFTonlyBin8	1.335	0.426	1.285	0.378
Other activities, BA graduate	workFTonlyBin9	1.335	0.426	1.285	0.378
Other activities, BA graduate	otherBin1	-2.553	0.421	-0.758	0.373
Other activities, BA graduate	otherBin2	-1.915	0.389	-0.279	0.340
Other activities, BA graduate	otherBin3	-1.021	0.351	0.342	0.325
Other activities, BA graduate	otherBin5	0.064	0.406	1.358	0.425
Other activities, BA graduate	otherBin6	0.651	0.527	2.546	0.398
Other activities, BA graduate	otherBin7	0.651	0.527	2.546	0.398
Other activities, BA graduate	otherBin8	0.651	0.527	2.546	0.398
Other activities, BA graduate	otherBin9	0.651	0.527	2.546	0.398
Other activities, BA graduate	cons	5.912	1.482	-0.516	1.681
log wages	black	0.000	0.009	-0.058	0.008
log wages	hispanic	0.040	0.012	-0.009	0.007
log wages	birthYear2	0.197	0.015	0.023	0.008
log wages	birthYear2	0.197	0.015	0.023	0.008
log wages	birthYear3	0.143	0.016	-0.028	0.009
log wages	birthYear4	0.111	0.013	-0.025	0.009
log wages	birthYear5	0.055	0.016		
log wages	foreignBorn	-0.002	0.010	-0.029	0.009
log wages	employment percentage	-0.083	0.015	-0.033	0.015
log wages	income per capita	0.020	0.001	0.009	0.001
log wages	anySchoolt	-0.003	0.012	0.083	0.009
log wages	anySchoolSq	0.014	0.027	-0.036	0.021
log wages	anySchoolCu	-0.008	0.018	0.003	0.014
log wages	workK12t	-0.036	0.027	0.003	0.015
log wages	workK12Sq	0.273	0.193	0.020	0.068
log wages	workK12*anySchool	0.020	0.021	-0.075	0.017
log wages	workK12Cu	-0.676	0.392	0.085	0.075
log wages	workColleget	0.095	0.018	-0.031	0.011
log wages	workCollegeSq	-0.084	0.066	0.129	0.034
log wages	workCollege*anySchool	-0.049	0.035	-0.013	0.022
log wages	workCollegeCu	0.080	0.054	-0.079	0.025
log wages	workPTonlyt	-0.029	0.013	0.007	0.009
log wages	workPTSq	0.049	0.049	-0.024	0.026
log wages	workPT*anySchool	-0.007	0.021	-0.024	0.011
log wages	workPTCu	-0.018	0.038	0.048	0.020
log wages	workFTonlyt	0.105	0.004	0.096	0.004
log wages	workFTSq	-0.100	0.006	-0.079	0.007
log wages	workFT*anySchool	0.021	0.004	0.011	0.004
log wages	workFTCu	0.031	0.003	0.027	0.004
log wages	militaryt	0.066	0.009	0.082	0.013
log wages	militarySq	-0.107	0.021	-0.031	0.041
5 5	<i>,</i>				

log wages militaryCu 0.039 0.013 0.018 0.030 log wages othert -0.065 0.009 -0.060 0.009 log wages otherCu -0.012 0.013 -0.014 0.017 0.021 log wages gradH5 0.033 0.014 0.049 0.007 log wages gradH7 0.147 0.014 0.017 0.001 log wages gradH7 0.016 -0.023 1.224 0.007 log wages cons 1.273 0.023 1.224 0.016 dig wages cons 1.273 0.023 1.224 0.043 Arithmetic Reasoning measurement birthYear2 0.152 0.052 0.091 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear3 0.163 0.046 0.556 </th <th>Equation</th> <th>Variable</th> <th>Coef 79</th> <th>SE 79</th> <th>Coef 97</th> <th>SE 97</th>	Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
log wages otherSq 0.004 0.0021 0.007 0.021 log wages otherSq 0.041 0.021 0.057 0.021 log wages gradHS 0.033 0.014 0.049 0.007 log wages gradHY 0.187 0.014 0.017 0.008 log wages gradHY 0.187 0.008 0.012 0.007 log wages ptwork -0.024 0.006 -0.022 0.007 log wages ptwork -0.916 0.023 -0.224 0.016 Arithmetic Reasoning measurement birthYear2 0.152 0.052 0.091 0.049 Arithmetic Reasoning measurement birthYear2 0.152 0.522 0.091 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.552 0.991 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.550 0.030 0.330 0.330 0.330 0.330 0.330 0.330 0.330 0.330 </td <td>log wages</td> <td>militaryCu</td> <td>0.039</td> <td>0.013</td> <td>-0.018</td> <td>0.030</td>	log wages	militaryCu	0.039	0.013	-0.018	0.030
log wages otherSq. 0.0411 0.027 0.021 log wages gradHS 0.033 0.014 0.049 0.007 log wages gradHY 0.187 0.014 0.017 0.009 log wages gradHY 0.187 0.014 0.017 0.007 log wages misch/Work -0.029 0.006 -0.022 0.007 log wages cons 1.273 0.023 1.224 0.012 0.020 0.037 Arithmetic Reasoning measurement bispairo -0.637 0.040 0.624 0.049 Arithmetic Reasoning measurement birthYear3 0.152 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear3 0.152 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear3 0.152 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear3 0.163 0.040 0.330 0.038 Coding Speed measurement birthYear3 0.136 </td <td></td> <td>othert</td> <td>-0.065</td> <td>0.009</td> <td>-0.060</td> <td>0.008</td>		othert	-0.065	0.009	-0.060	0.008
log wages other Cu -0.012 0.014 0.014 0.014 0.019 log wages gradHS 0.033 0.014 0.049 0.007 log wages inschWork -0.094 0.084 0.007 0.007 log wages phoork -0.094 0.082 0.007 0.007 log wages		otherSq	0.041	0.021	0.057	0.021
log wages gradHS 0.033 0.014 0.049 0.007 log wages grad4yr 0.187 0.014 0.187 0.009 log wages mSchWork -0.029 0.006 -0.022 0.007 log wages _cons 1.273 0.023 1.224 0.016 Arithmetic Reasoning measurement black -0.916 0.032 0.024 0.049 Arithmetic Reasoning measurement birthYear2 0.152 0.052 0.091 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear3 0.152 0.052 0.091 0.049 Arithmetic Reasoning measurement birthYear3 0.163 0.040 0.330 0.038 Coding Speed measurement black -0.075 0.030 0.032 0.025 0.044 Coding Speed measurement black -0.075 0.050 0.075 0.056 0.051 0.046 0.051 0.0			-0.012	0.013	-0.014	0.015
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log wages Ptwork -0.029 0.006 -0.022 0.007 log wages _cons 1.273 0.023 1.224 0.016 Arithmetic Reasoning measurement black -0.916 0.032 -0.929 0.037 Arithmetic Reasoning measurement birthYear2 0.152 0.652 0.091 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.052 0.091 0.049 Arithmetic Reasoning measurement birthYear3 0.155 0.050 0.034 0.049 Arithmetic Reasoning measurement birthYear4 0.134 0.048 0.040 0.049 Arithmetic Reasoning measurement birthYear5 0.163 0.049 - - Arithmetic Reasoning measurement birthYear4 0.163 0.049 0.033 0.038 Coding Speed measurement birthYear2 0.066 0.051 0.044 0.054 Coding Speed measurement birthYear3 0.075 0.056 0.061 0.048 - - <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
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Mathematical Knowledge measurement foreignBorn -0.072 0.062 0.104 0.062 Mathematical Knowledge measurement _cons 0.044 0.040 0.410 0.037 Numerical Operations measurement black -0.681 0.036 -0.426 0.041 Numerical Operations measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operations measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operations measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operations measurement birthYear3 0.142 0.055 -0.031 0.050 Numerical Operations measurement birthYear3 0.142 0.055 -0.031 0.050 Numerical Operations measurement birthYear4 0.151 0.051 - Numerical Operations measurement foreignBorn -0.034 0.062 0.053 0.061 Numerical Operations measurement foreignBorn -0.034 0.062 0.051	Mathematical Knowledge measurement	birthYear4	0.178	0.050	0.059	0.049
Mathematical Knowledge measurement cons 0.044 0.040 0.410 0.037 Numerical Operationso measurement black -0.681 0.036 -0.426 0.041 Numerical Operationso measurement hispanic -0.467 0.043 -0.372 0.043 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 -0.031 0.050 Numerical Operationso measurement birthYear3 0.142 0.051 0.017 0.051 Numerical Operationso measurement birthYear4 0.151 0.051 0.017 0.051 Numerical Operationso measurement foreignBorn -0.034 0.062 0.053 0.061 Numerical Operationso measurement _cons -0.008 0.041 0.397 0.038 Paragraph Comprehension measurement _cons -0.0772 0.034 -0.822 </td <td>Mathematical Knowledge measurement</td> <td>birthYear5</td> <td>0.162</td> <td>0.049</td> <td></td> <td></td>	Mathematical Knowledge measurement	birthYear5	0.162	0.049		
Mathematical Knowledge measurement cons 0.044 0.040 0.410 0.037 Numerical Operationso measurement black -0.681 0.036 -0.426 0.041 Numerical Operationso measurement hispanic -0.467 0.043 -0.372 0.043 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 -0.031 0.050 Numerical Operationso measurement birthYear3 0.142 0.051 0.017 0.051 Numerical Operationso measurement birthYear4 0.151 0.051 0.017 0.051 Numerical Operationso measurement foreignBorn -0.034 0.062 0.053 0.061 Numerical Operationso measurement _cons -0.008 0.041 0.397 0.038 Paragraph Comprehension measurement _cons -0.0772 0.034 -0.822 </td <td>Mathematical Knowledge measurement</td> <td>foreignBorn</td> <td>-0.072</td> <td>0.062</td> <td>0.104</td> <td>0.062</td>	Mathematical Knowledge measurement	foreignBorn	-0.072	0.062	0.104	0.062
Numerical Operationso measurement hispanic -0.467 0.043 -0.372 0.043 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear3 0.142 0.055 -0.031 0.050 Numerical Operationso measurement birthYear3 0.155 0.051 Numerical Operationso measurement birthYear5 0.155 0.051 Numerical Operationso measurement foreignBorn -0.034 0.062 0.053 0.061 Numerical Operationso measurement lack -0.772 0.034 -0.822 0.041 Paragraph Comprehension measurement black -0.772 0.034 -0.822 0.041 Paragraph Comprehension measurement birthYear2 0.116 0.054 0.087	Mathematical Knowledge measurement		0.044	0.040	0.410	0.037
Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear2 0.174 0.055 0.023 0.050 Numerical Operationso measurement birthYear3 0.142 0.055 -0.031 0.050 Numerical Operationso measurement birthYear3 0.151 0.051 0.017 0.051 Numerical Operationso measurement birthYear5 0.155 0.051 Numerical Operationso measurement foreignBorn -0.034 0.062 0.053 0.061 Numerical Operationso measurement _cons -0.008 0.041 0.397 0.038 Paragraph Comprehension measurement black -0.772 0.034 -0.822 0.041 Paragraph Comprehension measurement birthYear2 0.116 0.054 0.087 0.051 Paragraph Comprehension measurement birthYear2 0.116 0.054 0.051 0.51 Paragraph Comprehension measurement birthYear3 0.093 0.052 -	Numerical Operationso measurement	black	-0.681	0.036	-0.426	0.041
Numerical Operationso measurementbirthYear20.1740.0550.0230.050Numerical Operationso measurementbirthYear30.1420.055-0.0310.050Numerical Operationso measurementbirthYear40.1510.0510.0170.051Numerical Operationso measurementbirthYear50.1550.051Numerical Operationso measurementforeignBorn-0.0340.0620.0530.061Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehens	Numerical Operationso measurement	hispanic	-0.467	0.043	-0.372	0.043
Numerical Operationso measurementbirthYear30.1420.055-0.0310.050Numerical Operationso measurementbirthYear40.1510.0510.0170.051Numerical Operationso measurementbirthYear50.1550.051Numerical Operationso measurementforeignBorn-0.0340.0620.0530.061Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear30.1140.0490.0600.050Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Compreh	Numerical Operationso measurement	birthYear2	0.174	0.055	0.023	0.050
Numerical Operationso measurementbirthYear40.1510.0510.0170.051Numerical Operationso measurementbirthYear50.1550.051Numerical Operationso measurementforeignBorn-0.0340.0620.0530.061Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear30.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.064-0.0610.064	Numerical Operationso measurement	birthYear2	0.174	0.055	0.023	0.050
Numerical Operationso measurementbirthYear50.1550.051Numerical Operationso measurementforeignBorn-0.0340.0620.0530.061Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementhispanic-0.5320.042-0.5180.045Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.064-0.0610.064	Numerical Operationso measurement	birthYear3	0.142	0.055	-0.031	0.050
Numerical Operationso measurement Numerical Operationso measurementforeignBorn cons-0.0340.0620.0530.061Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementhispanic-0.5320.042-0.5180.045Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.064-0.0610.064	Numerical Operationso measurement	birthYear4	0.151	0.051	0.017	0.051
Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementhispanic-0.5320.042-0.5180.045Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.2090.064-0.0610.064	Numerical Operationso measurement	birthYear5	0.155	0.051		
Numerical Operationso measurement_cons-0.0080.0410.3970.038Paragraph Comprehension measurementblack-0.7720.034-0.8220.041Paragraph Comprehension measurementhispanic-0.5320.042-0.5180.045Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.2090.064-0.0610.064	Numerical Operationso measurement	foreignBorn	-0.034	0.062	0.053	0.061
Paragraph Comprehension measurementhispanic-0.5320.042-0.5180.045Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.064-0.0610.064	Numerical Operationso measurement	_cons	-0.008	0.041	0.397	0.038
Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.1220.064-0.0610.064	Paragraph Comprehension measurement	black	-0.772	0.034	-0.822	0.041
Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementbirthYear50.2090.064-0.0610.064		hispanic	-0.532			
Paragraph Comprehension measurementbirthYear20.1160.0540.0870.051Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementforeignBorn-0.2090.064-0.0610.064			0.116	0.054	0.087	0.051
Paragraph Comprehension measurementbirthYear30.0930.052-0.0520.051Paragraph Comprehension measurementbirthYear40.1140.0490.0600.050Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementforeignBorn-0.2090.064-0.0610.064		birthYear2	0.116	0.054	0.087	0.051
Paragraph Comprehension measurementbirthYear50.1220.048Paragraph Comprehension measurementforeignBorn-0.2090.064-0.0610.064	Paragraph Comprehension measurement	birthYear3	0.093	0.052	-0.052	0.051
Paragraph Comprehension measurementforeignBorn-0.2090.064-0.0610.064	Paragraph Comprehension measurement	birthYear4	0.114	0.049	0.060	0.050
Paragraph Comprehension measurementforeignBorn-0.2090.064-0.0610.064		birthYear5	0.122	0.048		
Paragraph Comprehension measurement _cons 0.272 0.040 0.279 0.039	Paragraph Comprehension measurement	foreignBorn	-0.209	0.064	-0.061	0.064
	Paragraph Comprehension measurement	_cons	0.272	0.040	0.279	0.039

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Word Knowledge measurement	black	-0.968	0.035	-0.863	0.038
Word Knowledge measurement	hispanic	-0.596	0.043	-0.598	0.040
Word Knowledge measurement	birthYear2	0.098	0.055	0.063	0.044
Word Knowledge measurement	birthYear2	0.098	0.055	0.063	0.044
Word Knowledge measurement	birthYear3	0.087	0.053	0.033	0.046
Word Knowledge measurement	birthYear4	0.086	0.051	0.080	0.046
Word Knowledge measurement	birthYear5	0.147	0.050		
Word Knowledge measurement	foreignBorn	-0.242	0.063	-0.143	0.064
Word Knowledge measurement	_cons	0.241	0.040	0.441	0.034
Work in High School	cognitive loading	0.006	0.017	0.003	0.015
Work in High School	non-cognitive loading	0.061	0.017	0.049	0.014
Work PT, no HS degree	cognitive loading	0.112	0.021	0.051	0.020
Work PT, no HS degree	non-cognitive loading	0.181	0.018	0.162	0.020
Work FT, no HS degree	cognitive loading	0.226	0.024	0.212	0.029
Work FT, no HS degree	non-cognitive loading	0.399	0.023	0.447	0.027
Military, no HS degree	cognitive loading	-0.449	0.124	3.659	0.610
Military, no HS degree	non-cognitive loading	-1.558	0.149	-1.431	0.232
Other activities, no HS degree	cognitive loading	0.003	0.016	-0.102	0.016
Other activities, no HS degree	non-cognitive loading	0.039	0.016	0.033	0.017
Graduate High School	cognitive loading	-0.098	0.018	-0.106	0.023
Graduate High School	non-cognitive loading	0.008	0.022	0.068	0.019
Work in College	cognitive loading	0.173	0.021	0.212	0.027
Work in College	non-cognitive loading	0.165	0.024	0.133	0.022
Work PT, HS graduate	cognitive loading	0.418	0.028	0.843	0.034
Work PT, HS graduate	non-cognitive loading	0.414	0.029	0.522	0.029
Work FT, HS graduate	cognitive loading	0.561	0.029	1.056	0.033
Work FT, HS graduate	non-cognitive loading	0.807	0.029	0.822	0.031
Military, HS graduate	cognitive loading	-0.874	0.043	-0.273	0.073
Military, HS graduate	non-cognitive loading	-1.401	0.059	-0.415	0.052
Other activities, HS graduate	cognitive loading	0.285	0.029	0.646	0.037
Other activities, HS graduate	non-cognitive loading	0.221	0.030	0.361	0.034
Graduate 4-year College	cognitive loading	-0.077	0.038	-0.033	0.069
Graduate 4-year College	non-cognitive loading	-0.043	0.053	0.013	0.047
Work in Graduate School	cognitive loading	0.546	0.106	-0.893	0.149
Work in Graduate School	non-cognitive loading	1.156	0.174	-0.944	0.106
Work PT, BA graduate	cognitive loading	0.112	0.098	-2.383	0.149
Work PT, BA graduate	non-cognitive loading	0.188	0.157	-1.972	0.110
Work FT, BA graduate	cognitive loading	-0.337	0.087	-2.796	0.146
Work FT, BA graduate	non-cognitive loading	-0.361	0.147	-2.116	0.105
Military, BA graduate	cognitive loading	-2.578	0.300	2.108	0.245
Military, BA graduate	non-cognitive loading	-5.568	0.622	0.299	0.106
Other activities, BA graduate	cognitive loading	0.018	0.103	-2.149	0.161
Other activities, BA graduate	non-cognitive loading	-0.044	0.171	-1.734	0.115
log wages	cognitive loading	-0.064	0.004	-0.043	0.004
log wages	non-cognitive loading	0.045	0.005	0.085	0.004
log wages	cognitive loading	-0.064	0.004	-0.043	0.004
log wages	non-cognitive loading	0.045	0.005	0.085	0.004
log wages	cognitive loading	-0.064	0.004	-0.043	0.004
log wages Arithmetic Researing measurement	non-cognitive loading	0.045	0.005	0.085	0.004
Arithmetic Reasoning measurement	cognitive loading	-0.139	0.010	-0.194	0.013
Coding Speed measurement	cognitive loading	-0.131	0.010	-0.131	0.014
Mathematical Knowledge measurement	cognitive loading	-0.142	0.011	-0.201	0.012
Numerical Operationso measurement	cognitive loading	-0.165	0.011	-0.152	0.013
Paragraph Comprehension measurement	cognitive loading	-0.138	0.010	-0.172	0.013

Equation	Variable	Coef 79	SE 79	Coef 97	SE 97
Word Knowledge measurement	cognitive loading	-0.157	0.011	-0.132	0.012
log wages	idiosyncratic sd. work in sch	0.320	0.005	0.307	0.005
log wages	idiosyncratic sd. work PT	0.389	0.007	0.371	0.008
log wages	idiosyncratic sd. work FT	0.253	0.002	0.247	0.003
Arithmetic Reasoning measurement	idiosyncratic sd.	0.824	0.009	0.888	0.010
Coding Speed measurement	idiosyncratic sd.	0.818	0.009	1.016	0.013
Mathematical Knowledge measurement	idiosyncratic sd.	0.869	0.009	0.875	0.010
Numerical Operationso measurement	idiosyncratic sd.	0.876	0.010	0.916	0.011
Paragraph Comprehension measurement	idiosyncratic sd.	0.845	0.008	0.938	0.010
Word Knowledge measurement	idiosyncratic sd.	0.861	0.009	0.838	0.011
log likelihood		-802,300		-821,940	