```
 1 . use "/Users/jensenxu/Desktop/2011Census/nhs2011_pumf.dta"
   (Written by R.              )

 2 .
 3 . *Clean up the data
 4 . *Use WAGES from a tab deliminated file to get rid of scientific notations
 5 . merge 1:1 _n using "/Users/jensenxu/Desktop/2011Census/wages.dta"

       Result                           # of obs.
       -----------------------------------------
       not matched                             0
       matched                           887,012  (_merge==3)
       -----------------------------------------

 6 . drop WAGES

 7 . rename WAGES_N WAGES

 8 . *Drop unavailable data
 9 . *Drop WAGES = 0 ang 1 for taking log later
10 . drop if WAGES == 0 | WAGES == 1 | WAGES == 8888888 | WAGES == 9999999 | WAGES
   >  == .
   (426,659 observations deleted)

11 . *Take natural log
12 . gen lnWAGES = log(WAGES)

13 .
14 . *Generate a binary indicator for gender
15 . gen FEMALE = (SEX == 1)

16 . tab SEX

          Sex |      Freq.     Percent        Cum.
   ------------+-----------------------------------
       Female |    224,586       48.79       48.79
         Male |    235,767       51.21      100.00
   ------------+-----------------------------------
        Total |    460,353      100.00

17 . label list SEX
   SEX:
              1 Female
              2 Male

18 . *Label the new dummy
19 . label define femaleLAB 1 "Female" 0 "Male"

20 . label values FEMALE femaleLAB
```

```
21 . label variable FEMALE "Female"

22 .
23 . *Check if the indicator has been defined correctly
24 . tab SEX FEMALE

           |        Female
       Sex |      Male     Female |     Total
-----------+----------------------+----------
    Female |         0    224,586 |   224,586
      Male |   235,767          0 |   235,767
-----------+----------------------+----------
     Total |   235,767    224,586 |   460,353

25 . *Do the similar to other variables
26 .
27 . *COW
28 . *This is not a variable in the model but needs to be modified for sampling re
   > strction
29 . *Drop unavailable observations
30 . drop if COW == 7 | COW == 8
   (16,018 observations deleted)

31 . *Exclude self-employed
32 . drop if COW != 1
   (23,462 observations deleted)

33 .
34 . *AGEGRP
35 . label list AGEGRP
   AGEGRP:
            1 0 to 4 years
            2 5 to 6 years
            3 7 to 9 years
            4 10 to 11 years
            5 12 to 14 years
            6 15 to 17 years
            7 18 to 19 years
            8 20 to 24 years
            9 25 to 29 years
           10 30 to 34 years
           11 35 to 39 years
           12 40 to 44 years
           13 45 to 49 years
           14 50 to 54 years
           15 55 to 59 years
           16 60 to 64 years
           17 65 to 69 years
           18 70 to 74 years
```

```
            19 75 to 79 years
            20 80 to 84 years
            21 85 years and over
            22 Not available

36 . *Drop observations who are under legal working age
37 . drop if AGEGRP <= 5
   (0 observations deleted)

38 . *Note: WAGES == 0 | 1 overlaps the under working-age population, so we may se
   > e "0 obs droped" in this step
39 . *Drop unavailable observations from AGEGRP
40 . drop if AGEGRP == 22 | AGEGRP == .
   (2,033 observations deleted)

41 . *Create a numerical variable for age, taking values of the rounded median of
   > AGEGRP
42 . gen AGE = 16

43 . replace AGE = 19 if AGEGRP == 7
   (15,591 real changes made)

44 . replace AGE = 22 if AGEGRP == 8
   (44,407 real changes made)

45 . replace AGE = 27 if AGEGRP == 9
   (44,917 real changes made)

46 . replace AGE = 32 if AGEGRP == 10
   (43,451 real changes made)

47 . replace AGE = 37 if AGEGRP == 11
   (42,854 real changes made)

48 . replace AGE = 42 if AGEGRP == 12
   (45,171 real changes made)

49 . replace AGE = 47 if AGEGRP == 13
   (51,192 real changes made)

50 . replace AGE = 52 if AGEGRP == 14
   (49,116 real changes made)

51 . replace AGE = 57 if AGEGRP == 15
   (37,892 real changes made)

52 . replace AGE = 62 if AGEGRP == 16
   (22,605 real changes made)

53 . replace AGE = 67 if AGEGRP == 17
```

```
   (7,941 real changes made)

54 . replace AGE = 72 if AGEGRP == 18
   (2,198 real changes made)

55 . replace AGE = 77 if AGEGRP == 19
   (695 real changes made)

56 . replace AGE = 82 if AGEGRP == 20
   (138 real changes made)

57 . replace AGE = 85 if AGEGRP == 21
   (37 real changes made)

58 . label variable AGE "Age"

59 .
60 . *Variables for robustness check
61 . gen FEM_AGE = FEMALE*AGE

62 . label variable FEM_AGE "Female*Age"

63 . gen AGE_2 = AGE^2

64 . label variable AGE_2 "Age^2"

65 . gen FEM_AGE_2 = FEMALE*AGE_2

66 . label variable FEM_AGE_2 "Female*Age^2"

67 . ***********************************************
68 . *Create a variable for potential experience
69 .
70 . *I plan to use potential experience in my formal model, age will be used for
   > robustness check
71 . *potential experience = age - years of education - 6, years of education is t
   > he expected length of each degree, 6 represents the e
   > xpected age in the first year of school
72 . gen SCHOOLYRS = .
   (418,840 missing values generated)

73 . replace SCHOOLYRS = 11 if HDGREE == 1
   (46,810 real changes made)

74 . replace SCHOOLYRS = 12 if HDGREE == 2
   (107,210 real changes made)

75 . replace SCHOOLYRS = 16 if HDGREE == 3 | HDGREE == 4 |HDGREE == 9
   (116,639 real changes made)
```

```
 76 . replace SCHOOLYRS = 13 if HDGREE == 5
   (10,363 real changes made)

 77 . replace SCHOOLYRS = 14 if HDGREE == 6 | HDGREE == 7 | HDGREE == 8
   (99,099 real changes made)

 78 . replace SCHOOLYRS = 17 if HDGREE == 10
   (10,873 real changes made)

 79 . replace SCHOOLYRS = 21 if HDGREE == 11 | HDGREE == 13
   (4,840 real changes made)

 80 . replace SCHOOLYRS = 18 if HDGREE == 12
   (20,761 real changes made)

 81 . gen POTENEXP = AGE - SCHOOLYRS - 6
   (2,245 missing values generated)

 82 . label variable POTENEXP "Potential experience"

 83 . *A negative value is most likely to mean that the individual finished the deg
   > ree faster than expected
 84 . *Drop these negative potential experiences because they don't fit in the cont
   > ext
 85 . drop if POTENEXP <= 0 | POTENEXP == .
   (26,110 observations deleted)

 86 .
 87 . *Create a quadratic term
 88 . gen POTENEXP_2 = POTENEXP^2

 89 . label variable POTENEXP_2 "Potential experience^2"

 90 . *Create interactions
 91 . gen FEM_POTENEXP = FEMALE*POTENEXP

 92 . label variable FEM_POTENEXP "Female*Potential experience"

 93 . gen FEM_POTENEXP_2 = FEMALE*POTENEXP_2

 94 . label variable FEM_POTENEXP_2 "Female*Potential experience^2"

 95 . ************************************************
 96 .
 97 .
 98 . ***************************************
 99 . *Dummies for having children
100 .
101 . *Drop unavailable data from PKID's
102 . label list PKID6_14
```

```
    PKID6_14:
                1 None
                2 One or more
                3 Not available
                4 Not applicable

103 . drop if PKID6_14 == 3 | PKID6_14 == . | PKID6_14 == 4
    (73,789 observations deleted)

104 . label list PKID2_5
    PKID2_5:
                1 None
                2 One or more
                3 Not available
                4 Not applicable

105 . drop if PKID2_5 == 3 | PKID2_5 == . | PKID2_5 == 4
    (0 observations deleted)

106 . label list PKID0_1
    PKID0_1:
                1 None
                2 One or more
                3 Not available
                4 Not applicable

107 . drop if PKID0_1 == 3 | PKID0_1 == . | PKID0_1 == 4
    (0 observations deleted)

108 . label list PKID15_24
    PKID15_24:
                1 None
                2 One or more
                3 Not available
                4 Not applicable

109 . drop if PKID15_24 == 3 | PKID15_24 == . | PKID15_24 == 4
    (0 observations deleted)

110 . *Create a dummy for each type of children one has
111 . gen INFANT = 0

112 . replace INFANT = 1 if PKID0_1 == 2
    (23,895 real changes made)

113 . gen PRESCHOOLER = 0

114 . replace PRESCHOOLER = 1 if PKID2_5 == 2
    (41,265 real changes made)
```

```
115 . gen SCHOOLAGE = 0

116 . replace SCHOOLAGE = 1 if PKID6_14 == 2
    (80,303 real changes made)

117 . gen YOUTH = 0

118 . replace YOUTH = 1 if PKID15_24 == 2
    (112,899 real changes made)

119 . *Create labels
120 . label define childlab 0 "None" 1 "One or more"

121 . label values INFANT childlab

122 . label values PRESCHOOLER childlab

123 . label values SCHOOLAGE childlab

124 . label values YOUTH childlab

125 . label variable INFANT "Infant"

126 . label variable PRESCHOOLER "preschooler"

127 . label variable SCHOOLAGE "school-age children"

128 . label variable YOUTH "Youth-age children"

129 . *Interact with gender
130 . gen FEM_INFANT = FEMALE*INFANT

131 . label variable FEM_INFANT "Female*Infant"

132 . gen FEM_PRESCHOOLER = FEMALE*PRESCHOOLER

133 . label variable FEM_PRESCHOOLER "Female*Preschooler"

134 . gen FEM_SCHOOLAGE = FEMALE*SCHOOLAGE

135 . label variable FEM_SCHOOLAGE "Female*Schoolage"

136 . gen FEM_YOUTH = FEMALE*YOUTH

137 . label variable FEM_YOUTH "Female*Youth"

138 . ****************************************
139 .
140 . *drop unavailable data
141 . label list HDGREE
```

```
    HDGREE:
                1 No certificate, diploma or degree
                2 High school diploma or equivalent
                3 Trades certificate or diploma (other than apprenticeship)
                4 Registered Apprenticeship certificate
                5 College,CEGEPorothernon-universitycertificatordiplomfromaprgrmof3m
    > nthstlssthn1yr
                6 College,CEGEPorothernon-universitycertificateordiplomafromaprogram
    > of1yeart2years
                7 College,CEGEPorothernon-universitycertificateordiplomfromaprogramo
    > fmorthan2years
                8 University certificate or diploma below bachelor level
                9 Bachelor's degree
               10 University certificate or diploma above bachelor level
               11 Degree in medicine, dentistry, veterinary medicine or optometry
               12 Master's degree
               13 Earned doctorate degree
               14 Not available
               15 Not applicable (< 15 years)

142 . drop if HDGREE == 14 | HDGREE == 15 | HDGREE == .
    (0 observations deleted)

143 .
144 . *NAICS
145 . *drop unavailable observations
146 . label list NAICS
    NAICS:
                1 11 Agriculture, forestry, fishing and hunting
                2 21 Mining, quarrying, and oil and gas extraction
                3 22 Utilities
                4 23 Construction
                5 31-33 Manufacturing
                6 41 Wholesale trade
                7 44-45 Retail trade
                8 48-49 Transportation and warehousing
                9 51 Information and cultural industries
               10 52 Finance and insurance/55 Management of companies and enterprise
    > s
               11 53 Real estate and rental and leasing
               12 54 Professional, scientific and technical services
               13 56 Administrative and support, waste management and remediation se
    > rvices
               14 61 Educational services
               15 62 Health care and social assistance
               16 71 Arts, entertainment and recreation
               17 72 Accommodation and food services
               18 81 Other services (except public administration)
               19 Not available
               20 91 Public administration
```

```
              21 Not applicable

147 . drop if NAICS == 19 | NAICS == 21 | NAICS == .
    (3,570 observations deleted)

148 .
149 . *PR
150 . drop if PR == .
    (0 observations deleted)

151 .
152 . *WKSWRK
153 . *Drop those who have never worked in 2010 and are under legal working age.
154 . drop if WKSWRK == 8 | WKSWRK == . | WKSWRK == 1
    (3,130 observations deleted)

155 . *Take the rounded median of each category to make a numercial variable for le
    > ngth of work
156 . gen WEEKWRK = 5

157 . replace WEEKWRK = 15 if WKSWRK == 3
    (17,444 real changes made)

158 . replace WEEKWRK = 25 if WKSWRK == 4
    (20,335 real changes made)

159 . replace WEEKWRK = 35 if WKSWRK == 5
    (17,238 real changes made)

160 . replace WEEKWRK = 44 if WKSWRK == 6
    (47,506 real changes made)

161 . replace WEEKWRK = 51 if WKSWRK == 7
    (199,450 real changes made)

162 . label variable WEEKWRK "weeks worked in 2010"

163 .
164 . *MARSTH
165 . *Create a dummy for marital status
166 . drop if MARSTH == .
    (0 observations deleted)

167 . gen MARRIED = 0

168 . replace MARRIED = 1 if MARSTH == 2 | MARSTH == 4
    (189,081 real changes made)

169 . label variable MARRIED "Married"
```

```
170 . label define MARRIEDlab 0 "not married" 1 "married"

171 . label values MARRIED MARRIEDlab

172 . *Interact with gender
173 . gen FEM_MAR = FEMALE*MARRIED

174 . label variable FEM_MAR "Female*Married"

175 .
176 . *Visible minority
177 . *get rid off unavailable data
178 . drop if VISMIN == . | VISMIN == 14
    (1,331 observations deleted)

179 . *create a dummy for visible minority
180 . gen MINORITY = 1

181 . replace MINORITY = 0 if VISMIN == 13
    (254,814 real changes made)

182 . label define minlab 1 "Visible minority" 0 "Not a visible minority"

183 . label values MINORITY minlab

184 . label variable MINORITY "Minority"

185 . *Interacts with gender
186 . gen FEM_MIN = FEMALE*MINORITY

187 . label variable FEM_MIN "Female*Minority"

188 .
189 . *Descriptive statistics
190 . estpost tabstat lnWAGES FEMALE FEM_POTENEXP FEM_POTENEXP_2 FEM_MAR FEM_INFANT
    >  FEM_PRESCHOOLER FEM_SCHOOLAGE FEM_YOUTH FEM_MIN INFA
    > NT PRESCHOOLER SCHOOLAGE YOUTH MARRIED POTENEXP POTENEXP_2 NAIC HDGREE PR WEE
    > KWRK MINORITY, listwise statistics(mean sd count min
    > max) columns(statistics)

    Summary statistics: mean sd count min max
         for variables: lnWAGES FEMALE FEM_POTENEXP FEM_POTENEXP_2 FEM_MAR FEM_INFA
    > NT FEM_PRESCHOOLER FEM_SCHOOLAGE FEM_YOUTH FEM_MIN IN
    > FANT PRESCHOOLER SCHOOLAGE YOUTH MARRIED POTENEXP POTENEXP_2 NAICS HDGREE PR
    > WEEKWRK MINORITY

                 |   e(mean)      e(sd)   e(count)     e(min)     e(max)
    -------------+--------------------------------------------------------
         lnWAGES |  10.35629   1.042104     310910   6.907755   13.88727
          FEMALE |  .4995819   .5000006     310910          0          1
```

```
FEM_POTENEXP |   10.5521   13.83402     310910          0         68
FEM_POTENE~2 |  302.7262   508.4049     310910          0       4624
     FEM_MAR |  .2985462   .4576211     310910          0          1
  FEM_INFANT |   .033849   .1808407     310910          0          1
FEM_PRESCH~R |  .0608697   .2390915     310910          0          1
FEM_SCHOOL~E |   .128111   .3342139     310910          0          1
   FEM_YOUTH |  .1806536   .3847315     310910          0          1
     FEM_MIN |  .0902962   .2866061     310910          0          1
      INFANT |  .0741887   .2620781     310910          0          1
 PRESCHOOLER |  .1287993   .3349782     310910          0          1
   SCHOOLAGE |  .2510855   .4336383     310910          0          1
       YOUTH |  .3538387   .4781607     310910          0          1
     MARRIED |  .6053327   .4887799     310910          0          1
   POTENEXP  |  21.41642    12.8719     310910          1         68
  POTENEXP_2 |  624.3481   601.8549     310910          1       4624
       NAICS |   11.0134   5.246094     310910          1         20
      HDGREE |  5.324197    3.39642     310910          1         13
          PR |  6.475839   2.000379     310910          1         11
     WEEKWRK |  43.83648   12.50018     310910          5         51
    MINORITY |  .1804252   .3845418     310910          0          1

191 . esttab . using "sumst_int.rtf", replace cells("mean(fmt(a3)) sd count min max
    > ") title(Table 1) label noobs
    (output written to sumst_int.rtf)

192 .
193 . *Fit a regression model
194 . reg lnWAGES FEMALE FEM_POTENEXP FEM_POTENEXP_2 FEM_MAR FEM_INFANT FEM_PRESCHO
    > OLER FEM_SCHOOLAGE FEM_YOUTH FEM_MIN INFANT PRESCHOOL
    > ER SCHOOLAGE YOUTH MARRIED POTENEXP POTENEXP_2 i.NAIC i.HDGREE i.PR WEEKWRK M
    > INORITY

      Source |       SS           df       MS      Number of obs   =   310,910
-------------+----------------------------------   F(58, 310851)   =   5894.45
       Model |  176845.522        58  3049.06073   Prob > F        =    0.0000
    Residual |  160795.805   310,851   .51727614   R-squared       =    0.5238
-------------+----------------------------------   Adj R-squared   =    0.5237
       Total |  337641.328   310,909   1.0859812   Root MSE        =    .71922

    ------------------------------------------------------------------------------
    > ------------------------------------------------
                                                           lnWAGES |      Coef.
    >   Std. Err.      t    P>|t|     [95% Conf. Interval]
    -------------------------------------------------------------------+----------
    > ------------------------------------------------
                                                            FEMALE |  -.0933706
    >   .0081315   -11.48   0.000    -.1093082    -.077433
                                                      FEM_POTENEXP |  -.0087624
    >    .000788   -11.12   0.000    -.0103069   -.0072179
                                                    FEM_POTENEXP_2 |   .0001121
```

```
>   .0000166     6.75   0.000     .0000796    .0001447
                                                        FEM_MAR |  -.1090988
>   .0062863   -17.35   0.000    -.1214198   -.0967777
                                                     FEM_INFANT |  -.1145208
>   .0106786   -10.72   0.000    -.1354505    -.093591
                                                 FEM_PRESCHOOLER |  -.0877119
>   .0084965   -10.32   0.000    -.1043649    -.071059
                                                   FEM_SCHOOLAGE |  -.0917415
>   .0064436   -14.24   0.000    -.1043707   -.0791123
                                                      FEM_YOUTH |  -.0431833
>   .0057341    -7.53   0.000     -.054422   -.0319446
                                                        FEM_MIN |   .1402862
>   .0068117    20.59   0.000     .1269355     .153637
                                                         INFANT |   .0733193
>    .007241    10.13   0.000     .0591271    .0875114
                                                    PRESCHOOLER |   .0606132
>   .0059057    10.26   0.000     .0490381    .0721882
                                                      SCHOOLAGE |   .0051945
>    .004571     1.14   0.256    -.0037646    .0141535
                                                        YOUTH |  -.0289928
>   .0041149    -7.05   0.000    -.0370579   -.0209276
                                                      MARRIED |   .1150959
>     .00471    24.44   0.000     .1058644    .1243274
                                                       POTENEXP |   .0672833
>   .0005643   119.23   0.000     .0661773    .0683893
                                                     POTENEXP_2 |  -.0011672
>   .0000115  -101.53   0.000    -.0011897   -.0011446
                                                                |
                                                          NAICS |
                 21 Mining, quarrying, and oil and gas extraction  |   .7648709
>   .0154714    49.44   0.000     .7345475    .7951944
                                                 22 Utilities  |   .6041426
>   .0171572    35.21   0.000     .5705151    .6377702
                                                    23 Construction  |     .27478
>   .0123596    22.23   0.000     .2505556    .2990044
                                               31-33 Manufacturing  |   .2468456
>   .0117939    20.93   0.000     .2237299    .2699613
                                               41 Wholesale trade  |   .2704848
>   .0126354    21.41   0.000     .2457198    .2952499
                                               44-45 Retail trade  |  -.1247943
>   .0117148   -10.65   0.000    -.1477549   -.1018336
                              48-49 Transportation and warehousing  |   .1745869
>    .012572    13.89   0.000     .1499461    .1992276
                            51 Information and cultural industries  |   .2911265
>   .0139463    20.87   0.000     .2637922    .3184609
52 Finance and insurance/55 Management of companies and enterp..  |   .3886909
>   .0126061    30.83   0.000     .3639833    .4133985
                              53 Real estate and rental and leasing  |   .0706738
>   .0154728     4.57   0.000     .0403475    .1010001
                54 Professional, scientific and technical services  |   .2891943
```

```
>    .012372    23.37   0.000     .2649454    .3134431
56 Administrative and support, waste management and remediatio..  |  -.0682173
>   .0130224    -5.24   0.000    -.0937408   -.0426939
                                        61 Educational services  |   .1014349
>   .0121268     8.36   0.000     .0776667    .1252032
                             62 Health care and social assistance  |   .1621586
>   .0118802    13.65   0.000     .1388739    .1854434
                           71 Arts, entertainment and recreation  |  -.1225579
>   .0147526    -8.31   0.000    -.1514727   -.0936432
                              72 Accommodation and food services  |  -.2690777
>   .0123519   -21.78   0.000     -.293287   -.2448684
                81 Other services (except public administration)  |  -.0459334
>   .0129622    -3.54   0.000    -.0713389   -.0205279
                                      91 Public administration  |   .3543269
>   .0119918    29.55   0.000     .3308233    .3778304
                                                                 |
                                                          HDGREE |
                               High school diploma or equivalent  |   .1014027
>   .0049499    20.49   0.000      .091701    .1111044
       Trades certificate or diploma (other than apprenticeship)  |   .1613029
>   .0068218    23.65   0.000     .1479322    .1746735
                           Registered Apprenticeship certificate  |   .2923592
>   .0076263    38.34   0.000     .2774118    .3073066
College,CEGEPorothernon-universitycertificatordiplomfromaprgrm..  |   .1728813
>   .0092316    18.73   0.000     .1547876     .190975
College,CEGEPorothernon-universitycertificateordiplomafromapro..  |   .2572012
>   .0059373    43.32   0.000     .2455643    .2688381
College,CEGEPorothernon-universitycertificateordiplomfromaprog..  |   .3654005
>   .0061527    59.39   0.000     .3533413    .3774596
         University certificate or diploma below bachelor level  |   .3865482
>   .0073132    52.86   0.000     .3722145     .400882
                                            Bachelor's degree  |   .5806775
>   .0056935   101.99   0.000     .5695184    .5918366
         University certificate or diploma above bachelor level  |   .6317939
>   .0092783    68.09   0.000     .6136088     .649979
 Degree in medicine, dentistry, veterinary medicine or optometry  |    .867314
>   .0233433    37.15   0.000     .8215617    .9130663
                                              Master's degree  |   .6898362
>   .0074724    92.32   0.000     .6751905    .7044818
                                      Earned doctorate degree  |   .8563526
>   .0152086    56.31   0.000     .8265441     .886161
                                                                 |
                                                       PR |
                                          Prince Edward Island  |  -.0384446
>   .0223881    -1.72   0.086    -.0823246    .0054355
                                                 Nova Scotia  |  -.0497862
>   .0130073    -3.83   0.000    -.0752801   -.0242923
                                                New Brunswick  |   -.040167
>   .0134303    -2.99   0.003    -.0664899   -.0138441
                                                      Quebec  |  -.0092223
```

```
    >   .0107397    -0.86   0.390    -.0302717    .0118271
                                                          Ontario  |    .080797
    >   .0106061     7.62   0.000     .0600092    .1015847
                                                        Manitoba  |   .0120553
    >   .0125058     0.96   0.335    -.0124558    .0365664
                                                      Saskatchewan  |     .09725
    >   .0129761     7.49   0.000     .0718173    .1226828
                                                          Alberta  |   .2047354
    >   .0110818    18.47   0.000     .1830154    .2264554
                                                    British Columbia  |   .0730568
    >   .0110241     6.63   0.000     .0514499    .0946637
                                                     Northern Canada  |   .2663938
    >   .0293597     9.07   0.000     .2088495     .323938
                                                                      |
                                                           WEEKWRK |   .0345898
    >   .0001101   314.31   0.000     .0343741    .0348055
                                                          MINORITY |  -.2698024
    >   .0049415   -54.60   0.000    -.2794875   -.2601173
                                                             _cons |   7.755201
    >   .0165424   468.81   0.000     7.722778    7.787623
    ------------------------------------------------------------------------------
    > ------------------------------------------------

195 . estimates store model_int

196 .
197 . *Robustness check
198 . eststo clear

199 . estpost tabstat lnWAGES FEMALE FEM_AGE FEM_AGE_2 FEM_MAR FEM_INFANT FEM_PRESC
    > HOOLER FEM_SCHOOLAGE FEM_YOUTH FEM_MIN INFANT PRESCHO
    > OLER SCHOOLAGE YOUTH MARRIED AGE AGE_2 NAIC HDGREE PR WEEKWRK MINORITY, listw
    > ise statistics(mean sd count min max) columns(statist
    > ics)

    Summary statistics: mean sd count min max
         for variables: lnWAGES FEMALE FEM_AGE FEM_AGE_2 FEM_MAR FEM_INFANT FEM_PRE
    > SCHOOLER FEM_SCHOOLAGE FEM_YOUTH FEM_MIN INFANT PRESC
    > HOOLER SCHOOLAGE YOUTH MARRIED AGE AGE_2 NAICS HDGREE PR WEEKWRK MINORITY

                 |   e(mean)      e(sd)   e(count)     e(min)     e(max)
    -------------+--------------------------------------------------------
         lnWAGES |  10.35629   1.042104     310910   6.907755   13.88727
          FEMALE |  .4995819   .5000006     310910          0          1
         FEM_AGE |  20.56497   22.41936     310910          0         85
       FEM_AGE_2 |   925.544   1186.383     310910          0       7225
         FEM_MAR |  .2985462   .4576211     310910          0          1
       FEM_INFANT |   .033849   .1808407     310910          0          1
    FEM_PRESCH~R |  .0608697   .2390915     310910          0          1
    FEM_SCHOOL~E |   .128111   .3342139     310910          0          1
```

```
  FEM_YOUTH |  .1806536   .3847315     310910          0          1
    FEM_MIN |  .0902962   .2866061     310910          0          1
     INFANT |  .0741887   .2620781     310910          0          1
PRESCHOOLER |  .1287993   .3349782     310910          0          1
  SCHOOLAGE |  .2510855   .4336383     310910          0          1
      YOUTH |  .3538387   .4781607     310910          0          1
    MARRIED |  .6053327   .4887799     310910          0          1
        AGE |  41.47141   12.93283     310910         19         85
      AGE_2 |  1887.135   1092.633     310910        361       7225
      NAICS |   11.0134   5.246094     310910          1         20
     HDGREE |  5.324197    3.39642     310910          1         13
         PR |  6.475839   2.000379     310910          1         11
    WEEKWRK |  43.83648   12.50018     310910          5         51
   MINORITY |  .1804252   .3845418     310910          0          1

200 . esttab using "sumst_rob.rtf", replace cells("mean(fmt(a3)) sd count min max")
    >  title(Table 2) label noobs
    (output written to sumst_rob.rtf)

201 .
202 . reg lnWAGES FEMALE FEM_AGE FEM_AGE_2 FEM_MAR FEM_INFANT FEM_PRESCHOOLER FEM_S
    > CHOOLAGE FEM_YOUTH FEM_MIN INFANT PRESCHOOLER SCHOOLA
    > GE YOUTH MARRIED AGE AGE_2 i.NAIC i.HDGREE i.PR WEEKWRK MINORITY

      Source |       SS           df       MS      Number of obs   =   310,910
-------------+----------------------------------   F(58, 310851)   =   5934.75
       Model |  177419.166        58  3058.95115   Prob > F        =    0.0000
    Residual |  160222.161   310,851   .51543074   R-squared       =    0.5255
-------------+----------------------------------   Adj R-squared   =    0.5254
       Total |  337641.328   310,909   1.0859812   Root MSE        =    .71794

    ------------------------------------------------------------------------------
    > ----------------------------------------------------
                                                       lnWAGES |      Coef.
    >   Std. Err.      t    P>|t|     [95% Conf. Interval]
    -------------------------------------------------------------------+----------
    > ----------------------------------------------------
                                                        FEMALE |   .0775194
    >   .0265901     2.92   0.004     .0254037    .1296352
                                                       FEM_AGE |  -.0119994
    >   .0013716    -8.75   0.000    -.0146877   -.0093111
                                                     FEM_AGE_2 |    .000106
    >   .0000161     6.57   0.000     .0000744    .0001375
                                                       FEM_MAR |  -.1156913
    >   .0063516   -18.21   0.000    -.1281402   -.1032424
                                                    FEM_INFANT |  -.1096717
    >   .0106572   -10.29   0.000    -.1305595   -.0887839
                                                FEM_PRESCHOOLER |  -.0799285
    >   .0084836    -9.42   0.000    -.0965561   -.0633008
                                                  FEM_SCHOOLAGE |  -.0852318
```

```
>   .0064109   -13.29   0.000     -.097797   -.0726665
                                                  FEM_YOUTH |  -.0466165
>   .0057483    -8.11   0.000     -.057883   -.0353499
                                                    FEM_MIN |   .1442629
>   .0067932    21.24   0.000     .1309484    .1575773
                                                     INFANT |   .0595484
>   .0072298     8.24   0.000     .0453782    .0737186
                                                 PRESCHOOLER |   .0526259
>   .0058976     8.92   0.000     .0410668     .064185
                                                   SCHOOLAGE |   .0038242
>   .0045529     0.84   0.401    -.0050993    .0127477
                                                       YOUTH |  -.0016648
>   .0041289    -0.40   0.687    -.0097573    .0064277
                                                     MARRIED |   .1081325
>   .0047421    22.80   0.000     .0988381    .1174269
                                                         AGE |   .1135042
>   .0009692   117.11   0.000     .1116045    .1154038
                                                       AGE_2 |  -.0011748
>   .0000111  -105.66   0.000    -.0011966    -.001153
                                                             |
                                                       NAICS |
                21 Mining, quarrying, and oil and gas extraction  |    .766562
>   .0154431    49.64   0.000      .736294    .7968301
                                                 22 Utilities  |   .6094724
>   .0171257    35.59   0.000     .5759066    .6430382
                                                23 Construction  |   .2779507
>   .0123372    22.53   0.000     .2537703    .3021312
                                            31-33 Manufacturing  |   .2484659
>   .0117723    21.11   0.000     .2253926    .2715392
                                             41 Wholesale trade  |    .272972
>   .0126125    21.64   0.000     .2482519    .2976921
                                             44-45 Retail trade  |  -.1110566
>   .0116962    -9.50   0.000    -.1339807   -.0881324
                            48-49 Transportation and warehousing  |   .1745206
>   .0125495    13.91   0.000     .1499239    .1991173
                          51 Information and cultural industries  |   .2953849
>   .0139204    21.22   0.000     .2681014    .3226684
52 Finance and insurance/55 Management of companies and enterp..  |   .3910474
>   .0125825    31.08   0.000      .366386    .4157087
                            53 Real estate and rental and leasing  |   .0768465
>   .0154458     4.98   0.000     .0465733    .1071197
                 54 Professional, scientific and technical services  |   .2885425
>   .0123492    23.37   0.000     .2643385    .3127465
56 Administrative and support, waste management and remediatio..  |  -.0614542
>   .0129993    -4.73   0.000    -.0869324    -.035976
                                       61 Educational services  |    .110447
>   .0121053     9.12   0.000      .086721     .134173
                            62 Health care and social assistance  |   .1692483
>   .0118589    14.27   0.000     .1460053    .1924914
                           71 Arts, entertainment and recreation  |   -.111716
```

```
>   .0147281    -7.59   0.000    -.1405827   -.0828493
                                72 Accommodation and food services  |  -.2480142
>   .0123345   -20.11   0.000    -.2721895   -.2238388
                81 Other services (except public administration)  |  -.0375791
>   .0129393    -2.90   0.004    -.0629398   -.0122184
                                      91 Public administration  |   .3603491
>   .0119695    30.11   0.000     .3368892     .383809
                                                                 |
                                                          HDGREE |
                                 High school diploma or equivalent  |   .1081953
>   .0049271    21.96   0.000     .0985384    .1178522
       Trades certificate or diploma (other than apprenticeship)  |   .1220775
>    .006766    18.04   0.000     .1088163    .1353386
                             Registered Apprenticeship certificate  |   .2538035
>   .0075787    33.49   0.000     .2389495    .2686575
College,CEGEPorothernon-universitycertificatordiplomfromaprgrm..  |   .1604967
>   .0092012    17.44   0.000     .1424627    .1785307
College,CEGEPorothernon-universitycertificateordiplomafromapro..  |   .2333542
>   .0058814    39.68   0.000     .2218269    .2448815
College,CEGEPorothernon-universitycertificateordiplomfromaprog..  |   .3436657
>   .0060997    56.34   0.000     .3317104    .3556209
         University certificate or diploma below bachelor level  |   .3663249
>   .0072736    50.36   0.000     .3520688     .380581
                                               Bachelor's degree  |   .5294973
>   .0055952    94.63   0.000     .5185308    .5404638
         University certificate or diploma above bachelor level  |   .5698843
>   .0091984    61.95   0.000     .5518557    .5879129
 Degree in medicine, dentistry, veterinary medicine or optometry  |    .768572
>   .0232631    33.04   0.000      .722977    .8141669
                                                 Master's degree  |   .6160664
>   .0073703    83.59   0.000     .6016208     .630512
                                         Earned doctorate degree  |   .7867709
>   .0151296    52.00   0.000     .7571173    .8164245
                                                                 |
                                                              PR |
                                           Prince Edward Island  |  -.0336861
>   .0223485    -1.51   0.132    -.0774885    .0101163
                                                  Nova Scotia  |  -.0434156
>   .0129847    -3.34   0.001    -.0688653    -.017966
                                                      New Brunswick  |  -.0375715
>   .0134064    -2.80   0.005    -.0638477   -.0112954
                                                        Quebec  |  -.0115141
>   .0107202    -1.07   0.283    -.0325254    .0094972
                                                       Ontario  |    .085126
>   .0105879     8.04   0.000     .0643741     .105878
                                                     Manitoba  |   .0199304
>   .0124848     1.60   0.110    -.0045394    .0444002
                                                   Saskatchewan  |   .1042533
>    .012954     8.05   0.000     .0788638    .1296427
                                                       Alberta  |   .2130955
```

```
    >   .0110633    19.26   0.000     .1914117    .2347792
                                                  British Columbia  |   .0794846
    >   .0110052     7.22   0.000     .0579146    .1010545
                                                    Northern Canada  |   .2818436
    >   .0293078     9.62   0.000     .2244012    .3392861
                                                                     |
                                                           WEEKWRK |   .0341748
    >   .0001103   309.71   0.000     .0339586    .0343911
                                                         MINORITY |  -.2786049
    >   .0049308   -56.50   0.000     -.288269   -.2689407
                                                             _cons |   6.012281
    >   .0240784   249.70   0.000     5.965088    6.059474
    ------------------------------------------------------------------------------
    > ------------------------------------------------------

203 . estimates store model_rob

204 .
205 . *Produce a aggregated table for regression outputs
206 . esttab model_int model_rob using "regout.rtf", replace label compress order(F
    > EMALE FEM_POTENEXP FEM_POTENEXP_2 FEM_AGE FEM_AGE_2 F
    > EM_MAR FEM_INFANT FEM_PRESCHOOLER FEM_SCHOOLAGE FEM_YOUTH FEM_MIN FEM_MAR FEM
    > _INFANT FEM_PRESCHOOLER FEM_SCHOOLAGE FEM_YOUTH FEM_M
    > IN YOUTH MARRIED POTENEXP POTENEXP_2 AGE AGE_2 MINORITY) b(3) title(Table 3)
    > varwidth(40)
    (output written to regout.rtf)

207 .
208 .
209 . log close
          name:  <unnamed>
           log:  /Users/jensenxu/Desktop/stata_clone/Model.log
      log type:  text
     closed on:  29 Nov 2019, 12:24:51
    ------------------------------------------------------------------------------
    > ------------------------------------------------------
```