```
              name:  <unnamed>
               log:  /Users/arbor/Documents/github repos/hons-project/logs/first regressions/Firm size.smcl
          log type:  smcl
         opened on:  3 Jul 2023, 10:44:04
```

1 . do "/var/folders/d7/2n8wylhx08g71ycdjqqj0pmw0000gn/T//SD04605.000000"

2 . clear

3 .
4 . *use "/home/sean/Code/honours/hons-project/cleaned_data/v3/basic_cleaned.dta"
5 . use "/Users/arbor/Documents/github repos/hons-project/cleaned_data/v3/basic_cleaned.dta"

6 .
7 . // males public
8 . regress log_wage sector_public experience experience_sq edu_uni edu_diploma children_1 children_2 children_3 children_4_plus health_poor birth_eng birth_ne
  > ng married_yes married_sep urban_no state_VIC state_WA state_QLD state_SA state_NT state_TAS state_ACT shiftwork_yes parttime long_hours casual union_yes f
  > irm_size_20_99 firm_size_100_199 firm_size_200_499 firm_size_500 firm_size_unknown if sex_male == 1 & sector_public == 1, vce(robust)
  note: **sector_public** omitted because of collinearity.

Linear regression   Number of obs   =   15,135
                                               F(31, 15103)   =   101.56
                                               Prob > F   =   0.0000
                                               R-squared   =   0.1947
                                               Root MSE   =   .41441
```

| log_wage | Coefficient | Robust std. err. | t | P>\|t\| | [95% conf. interval] | |
|---|---|---|---|---|---|---|
| sector_public | 0 | (omitted) | | | | |
| experience | .0126201 | .0013936 | 9.06 | 0.000 | .0098884 | .0153518 |
| experience_sq | -.0001339 | .0000283 | -4.72 | 0.000 | -.0001894 | -.0000783 |
| edu_uni | .3821408 | .0103167 | 37.04 | 0.000 | .3619187 | .4023629 |
| edu_diploma_cert | .1763902 | .009511 | 18.55 | 0.000 | .1577476 | .1950328 |
| children_1 | .0269686 | .009504 | 2.84 | 0.005 | .0083396 | .0455975 |
| children_2 | .0484357 | .0095361 | 5.08 | 0.000 | .0297439 | .0671276 |
| children_3 | .0941884 | .0136477 | 6.90 | 0.000 | .0674374 | .1209395 |
| children_4_plus | .0083183 | .0263578 | 0.32 | 0.752 | -.0433461 | .0599827 |
| health_poor | -.0814101 | .0103329 | -7.88 | 0.000 | -.1016639 | -.0611563 |
| birth_eng | -.0020408 | .0126347 | -0.16 | 0.872 | -.0268065 | .0227248 |
| birth_neng | -.0452673 | .0128099 | -3.53 | 0.000 | -.0703764 | -.0201583 |
| married_yes | .1268655 | .0121971 | 10.40 | 0.000 | .1029577 | .1507733 |
| married_sep | .1004918 | .0176435 | 5.70 | 0.000 | .0659084 | .1350752 |
| urban_no | -.0659272 | .010721 | -6.15 | 0.000 | -.0869416 | -.0449128 |
| state_VIC | -.0186156 | .0094603 | -1.97 | 0.049 | -.0371589 | -.0000722 |
| state_WA | .0202687 | .0161862 | 1.25 | 0.211 | -.0114581 | .0519955 |
| state_QLD | -.0025969 | .0093725 | -0.28 | 0.782 | -.0209681 | .0157742 |
| state_SA | -.074699 | .0144814 | -5.16 | 0.000 | -.1030843 | -.0463137 |
| state_NT | .1587245 | .0237958 | 6.67 | 0.000 | .1120818 | .2053671 |
| state_TAS | -.0388983 | .0182294 | -2.13 | 0.033 | -.0746302 | -.0031665 |
| state_ACT | .1383926 | .0137169 | 10.09 | 0.000 | .1115058 | .1652795 |
| shiftwork_yes | .0676483 | .0084956 | 7.96 | 0.000 | .0509959 | .0843007 |
| parttime | -.0186164 | .0172636 | -1.08 | 0.281 | -.0524552 | .0152224 |
| long_hours | -.0515506 | .0070826 | -7.28 | 0.000 | -.0654333 | -.0376679 |
| casual | -.0247302 | .0212138 | -1.17 | 0.244 | -.0663118 | .0168515 |
| union_yes | -.0212895 | .0072483 | -2.94 | 0.003 | -.0354971 | -.0070818 |
| firm_size_20_99 | .0275695 | .010557 | 2.61 | 0.009 | .0068764 | .0482625 |
| firm_size_100_199 | .075973 | .0120556 | 6.30 | 0.000 | .0523426 | .0996034 |
| firm_size_200_499 | .1571357 | .0120634 | 13.03 | 0.000 | .13349 | .1807815 |
| firm_size_500 | .1906904 | .0108957 | 17.50 | 0.000 | .1693335 | .2120473 |
| firm_size_unknown | -.1357236 | .0646775 | -2.10 | 0.036 | -.2624993 | -.0089479 |
| _cons | 2.902813 | .0192667 | 150.67 | 0.000 | 2.865048 | 2.940578 |

9 .
10 . //males private
11 . regress log_wage sector_public experience experience_sq edu_uni edu_diploma children_1 children_2 children_3 children_4_plus health_poor birth_eng birth_ne
  > ng married_yes married_sep urban_no state_VIC state_WA state_QLD state_SA state_NT state_TAS state_ACT shiftwork_yes parttime long_hours casual union_yes f
  > irm_size_20_99 firm_size_100_199 firm_size_200_499 firm_size_500 firm_size_unknown if sex_male == 1 & sector_public == 0, vce(robust)
  note: **sector_public** omitted because of collinearity.

```
Linear regression                              Number of obs   =    49,723
                                               F(31, 49691)    =    459.65
                                               Prob > F        =    0.0000
                                               R-squared       =    0.2347
                                               Root MSE        =    .45471
```

log_wage	Coefficient	Robust std. err.	t	P>|t|	[95% conf. interval]	
sector_public	0	(omitted)				
experience	.018587	.0007961	23.35	0.000	.0170266	.0201473
experience_sq	-.0002728	.0000169	-16.17	0.000	-.0003058	-.0002397
edu_uni	.3895511	.0063734	61.12	0.000	.3770592	.4020431
edu_diploma_cert	.1419182	.004574	31.03	0.000	.1329532	.1508832
children_1	.0253045	.0059942	4.22	0.000	.0135558	.0370532
children_2	.0930844	.0063035	14.77	0.000	.0807294	.1054393
children_3	.089905	.0090717	9.91	0.000	.0721244	.1076856

children_4_plus	-.0156126	.0153196	-1.02	0.308	-.0456393	.0144141
health_poor	-.0922872	.0062093	-14.86	0.000	-.1044575	-.080117
birth_eng	.0080192	.0070896	1.13	0.258	-.0058765	.0219148
birth_neng	-.1419913	.0067748	-20.96	0.000	-.15527	-.1287125
married_yes	.1101804	.005886	18.72	0.000	.0986437	.1217171
married_sep	.0231952	.0100634	2.30	0.021	.0034707	.0429197
urban_no	-.0468063	.0068795	-6.80	0.000	-.0602901	-.0333225
state_VIC	-.0327314	.0054889	-5.96	0.000	-.0434898	-.0219731
state_WA	.0326318	.0082276	3.97	0.000	.0165057	.048758
state_QLD	-.0348514	.0057922	-6.02	0.000	-.0462042	-.0234986
state_SA	-.1279272	.0079483	-16.09	0.000	-.1435061	-.1123484
state_NT	-.0041932	.0245162	-0.17	0.864	-.0522453	.043859
state_TAS	-.1201798	.0106949	-11.24	0.000	-.1411418	-.0992177
state_ACT	.1622117	.0221566	7.32	0.000	.1187844	.2056389
shiftwork_yes	-.0193467	.0059567	-3.25	0.001	-.0310219	-.0076715
parttime	-.0320584	.0090754	-3.53	0.000	-.0498463	-.0142705
long_hours	-.0206491	.0042372	-4.87	0.000	-.028954	-.0123441
casual	-.0271799	.0067442	-4.03	0.000	-.0403987	-.0139611
union_yes	.0082428	.0053943	1.53	0.127	-.0023301	.0188156
firm_size_20_99	.1038115	.0049537	20.96	0.000	.0941021	.1135208
firm_size_100_199	.1700305	.0074573	22.80	0.000	.1554142	.1846469
firm_size_200_499	.2699843	.0078595	34.35	0.000	.2545797	.2853889
firm_size_500	.3670075	.0077195	47.54	0.000	.3518772	.3821378
firm_size_unknown	.00107	.0355104	0.03	0.976	-.0685307	.0706708
_cons	2.834349	.0090114	314.53	0.000	2.816686	2.852011

12 .

13 . //females public

14 . regress log_wage sector_public experience experience_sq edu_uni edu_diploma children_1 children_2 children_3 children_4_plus health_poor birth_eng birth_ne
> ng married_yes married_sep urban_no state_VIC state_WA state_QLD state_SA state_NT state_TAS state_ACT shiftwork_yes parttime long_hours casual union_yes f
> irm_size_20_99 firm_size_100_199 firm_size_200_499 firm_size_500 firm_size_unknown if sex_female == 1 & sector_public == 1, vce(robust)
note: **sector_public** omitted because of collinearity.

Linear regression

Number of obs	=	22,936
F(31, 22904)	=	138.79
Prob > F	=	0.0000
R-squared	=	0.1730
Root MSE	=	.40199

log_wage	Coefficient	Robust std. err.	t	P>|t|	[95% conf. interval]	
sector_public	0	(omitted)				
experience	.0106934	.0011441	9.35	0.000	.0084509	.0129359
experience_sq	-.0000804	.0000256	-3.14	0.002	-.0001306	-.0000303
edu_uni	.378422	.0078069	48.47	0.000	.3631199	.393724
edu_diploma_cert	.2277041	.0077509	29.38	0.000	.2125118	.2428963
children_1	.0120196	.0079812	1.51	0.132	-.0036241	.0276634
children_2	.0063094	.0075316	0.84	0.402	-.008453	.0210719
children_3	.0148601	.0103926	1.43	0.153	-.0055101	.0352303
children_4_plus	-.0163189	.0191339	-0.85	0.394	-.0538227	.0211849
health_poor	-.0195669	.0074546	-2.62	0.009	-.0341784	-.0049553
birth_eng	-.0112006	.0100347	-1.12	0.264	-.0308694	.0084681
birth_neng	-.0530718	.0103484	-5.13	0.000	-.0733553	-.0327883
married_yes	.0575915	.0082568	6.98	0.000	.0414076	.0737755
married_sep	-.0108476	.0109542	-0.99	0.322	-.0323187	.0106234
urban_no	-.0106155	.0085381	-1.24	0.214	-.0273508	.0061198
state_VIC	-.0611337	.0074396	-8.22	0.000	-.0757159	-.0465515
state_WA	-.0047875	.0104422	-0.46	0.647	-.025255	.01568
state_QLD	-.066875	.007943	-8.42	0.000	-.0824437	-.0513062
state_SA	-.0647229	.0101756	-6.36	0.000	-.0846678	-.0447781
state_NT	.0332685	.0230749	1.44	0.149	-.0119598	.0784969
state_TAS	-.0824802	.0141739	-5.82	0.000	-.110262	-.0546984
state_ACT	.0795372	.0132902	5.98	0.000	.0534876	.1055869
shiftwork_yes	-.0169727	.0077262	-2.20	0.028	-.0321166	-.0018289
parttime	-.0112426	.0063475	-1.77	0.077	-.0236841	.0011988
long_hours	-.0854924	.0074274	-11.51	0.000	-.1000505	-.0709342
casual	-.051793	.0130382	-3.97	0.000	-.0773487	-.0262372
union_yes	.0349612	.0057428	6.09	0.000	.0237048	.0462175
firm_size_20_99	.0459066	.0089326	5.14	0.000	.028398	.0634152
firm_size_100_199	.1150914	.0104927	10.97	0.000	.0945249	.1356578
firm_size_200_499	.1228533	.0106347	11.55	0.000	.1020085	.1436981
firm_size_500	.2036933	.009227	22.08	0.000	.1856078	.2217788
firm_size_unknown	.0445806	.0352712	1.26	0.206	-.0245532	.1137145
_cons	2.895341	.0163149	177.47	0.000	2.863363	2.92732

15 .

16 . //females private

17 . regress log_wage sector_public experience experience_sq edu_uni edu_diploma children_1 children_2 children_3 children_4_plus health_poor birth_eng birth_ne
> ng married_yes married_sep urban_no state_VIC state_WA state_QLD state_SA state_NT state_TAS state_ACT shiftwork_yes parttime long_hours casual union_yes f
> irm_size_20_99 firm_size_100_199 firm_size_200_499 firm_size_500 firm_size_unknown if sex_female == 1 & sector_public == 0, vce(robust)
note: **sector_public** omitted because of collinearity.

Linear regression

Number of obs	=	44,013
F(31, 43981)	=	276.77
Prob > F	=	0.0000
R-squared	=	0.1770
Root MSE	=	.43028

log_wage	Coefficient	Robust std. err.	t	P>|t|	[95% conf. interval]	
sector_public	0	(omitted)				
experience	.0140929	.0008356	16.87	0.000	.012455	.0157307
experience_sq	-.0001835	.0000189	-9.69	0.000	-.0002206	-.0001463
edu_uni	.3922605	.0059069	66.41	0.000	.380683	.4038381
edu_diploma_cert	.1697541	.0047127	36.02	0.000	.1605172	.178991
children_1	.0216306	.005819	3.72	0.000	.0102254	.0330359
children_2	.058654	.0058724	9.99	0.000	.047144	.070164
children_3	.061299	.0090921	6.74	0.000	.0434784	.0791197
children_4_plus	-.0109905	.0171358	-0.64	0.521	-.0445769	.0225959
health_poor	-.0395791	.0058079	-6.81	0.000	-.0509628	-.0281955
birth_eng	-.0009746	.0074998	-0.13	0.897	-.0156744	.0137253
birth_neng	-.0649668	.0067152	-9.67	0.000	-.0781287	-.0518049
married_yes	.0665384	.0060517	10.99	0.000	.0546769	.0783998
married_sep	-.0073213	.0081122	-0.90	0.367	-.0232214	.0085788
urban_no	-.0355302	.007209	-4.93	0.000	-.0496599	-.0214005
state_VIC	-.0311645	.0056188	-5.55	0.000	-.0421775	-.0201514
state_WA	.0066622	.0082028	0.81	0.417	-.0094155	.0227398
state_QLD	-.0578838	.0057912	-10.00	0.000	-.0692346	-.046533
state_SA	-.0735056	.0082427	-8.92	0.000	-.0896615	-.0573497
state_NT	-.0518118	.0231514	-2.24	0.025	-.0971889	-.0064347
state_TAS	-.0586917	.010878	-5.40	0.000	-.0800128	-.0373706
state_ACT	.0759196	.0197403	3.85	0.000	.0372283	.114611
shiftwork_yes	-.010625	.0058689	-1.81	0.070	-.0221282	.0008782
parttime	-.0092139	.0049939	-1.85	0.065	-.019002	.0005741
long_hours	-.0168958	.0058298	-2.90	0.004	-.0283222	-.0054693
casual	-.06412	.0059504	-10.78	0.000	-.0757829	-.0524571
union_yes	.0201209	.0055011	3.66	0.000	.0093387	.0309031
firm_size_20_99	.0525632	.0048568	10.82	0.000	.0430437	.0620827
firm_size_100_199	.0770329	.0073344	10.50	0.000	.0626573	.0914085
firm_size_200_499	.1241752	.0082072	15.13	0.000	.108089	.1402614
firm_size_500	.2641039	.0084692	31.18	0.000	.2475041	.2807037
firm_size_unknown	-.0333614	.0265438	-1.26	0.209	-.0853878	.0186649
_cons	2.799348	.0095979	291.66	0.000	2.780536	2.81816

```
18 .
end of do-file

19 . log close
       name:  <unnamed>
        log:  /Users/arbor/Documents/github repos/hons-project/logs/first regressions/Firm size.smcl
   log type:  smcl
   closed on:  3 Jul 2023, 10:44:18
```