

PS12

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- Summary statistics

	Unique (#)	Missing (%)	Mean	SD	Min	Median	Max
logwage	1546	31	1.7	0.7	-1.0	1.7	4.2
hgc	14	0	12.5	2.4	5.0	12.0	18.0
exper	1932	0	6.4	4.9	0.0	6.0	25.0
kids	2	0	0.4	0.5	0.0	0.0	1.0

		N
college	0	1996
	1	233
married	0	814
	1	1415
union	0	1700
	1	529

31 percent of the logwage data is missing. I think it's MAR

- Imputed and heckman sample selection models

	complete	Mean	Heckman
N years of schooling	0.057*** (0.009)	0.057*** (0.009)	0.091*** (0.009)
Holding a union dummy	0.220** (0.088)	0.220** (0.088)	0.186** (0.085)
N experience years	0.050*** (0.013)	0.050*** (0.013)	0.054*** (0.012)
N experience years squared	-0.004*** (0.001)	-0.004*** (0.001)	-0.002 (0.001)
Married dummy	-0.050 (0.036)	-0.050 (0.036)	
Kids dummy	0.064* (0.035)	0.064* (0.035)	
Constant	0.859*** (0.117)	0.859*** (0.117)	0.446*** (0.117)
Inverse mills ratio			-0.695*** (0.073)
Num.Obs.	1545	1545	1545
R2	0.041	0.041	0.866
R2 Adj.	0.037	0.037	0.865
AIC	3181.1	3181.1	3095.1
BIC	3229.2	3229.2	3137.8
Log.Lik.	-1581.546	-1581.546	-1539.530
F	9.418	9.418	1417.766

Note: ^ * p < 0.1, ** p < 0.05, *** p < 0.01

Hickman selection model yields the correct coefficient; The inverse mill ratio is significant, so sample selection is an issue in the first two models.

- Counterfactual

	Union
N years of schooling	-1.769 (0.183)
N experience years	3.277 (0.302)
Married dummy	1.007 (0.371)
Kids dummy	1.362 (0.366)
Constant	-12.141 (1.526)
Num.Obs.	2229
AIC	243.7
BIC	277.9
Log.Lik.	-115.846

	Unique (#)	Missing (%)	Mean	SD	Min	Median	Max
data	1821	0	0.2373	0.4066	0.0000	0.0000	1.0000

	Unique (#)	Missing (%)	Mean	SD	Min	Median	Max
data	1774	0	0.2180	0.3945	0.0000	0.0000	1.0000

when wives and mothers are no longer allowed to work in union jobs, the latter (female union jobs) goes down by merely 0.02 percentage points. This means that most of union jobs are taken by single females.