PS7

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1 Wages

Table 1:

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
logwage	1,669	1.625	0.386	0.005	1.362	1.936	2.261
hgc	2,229	13.101	2.524	0	12	15	18
tenure	2,229	5.971	5.507	0.000	1.583	9.333	25.917
age	2,229	39.152	3.062	34	36	42	46

Out of the 2,229 variables, there are only 1,669 logwage variables. So .25 of them are missing, about 1 out of every 4 is missing. These missing values would most likely be MNAR. The wage seems like a very important piece of information given the name of the data set is wages. This missing data does not seem like it can be ignored.

2 Listwise Table

3 Regression Imputation Table

4 Project

So far I have obtained the data I am going to use. I decided to use EPL data for the past 12 seasons. The data includes the places each team finished along with many variables about the seasons stats. I am planning an comparing the teams that have been involved in all 12 season to teams that have not been in every season to understand the differences in the two sets of teams.

Table 2:

Table 2.				
	Dependent variable:			
	logwage			
hgc	0.062***			
	(0.005)			
collegenot college grad	0.146***			
	(0.035)			
tenure	0.023***			
	(0.002)			
age	-0.001			
O .	(0.003)			
marriedsingle	-0.024			
O	(0.018)			
Constant	0.639***			
	(0.146)			
Observations	1,669			
R^2	0.195			
Adjusted \mathbb{R}^2	0.192			
Residual Std. Error	0.346 (df = 1663)			
F Statistic	$80.508^{***} (df = 5; 1663)$			
Note:	*p<0.1; **p<0.05; ***p<0.01			

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*p<0.1; **p<0.05; ***p<0.01

Table 3:

	Dependent variable:				
	logv	logwage			
	(1)	(2)			
hgc	0.062***	0.049***	(
	(0.005)	(0.004)			
collegenot college grad	0.146***	0.160***	(
	(0.035)	(0.026)			
tenure	0.023***	0.015***	(
	(0.002)	(0.001)			
I(tenure^2)			-		
age	-0.001	-0.001	0		
	(0.003)	(0.002)			
marriedsingle	-0.024	-0.029**	_		
	(0.018)	(0.014)			
Constant	0.639***	0.833***	(
	(0.146)	(0.115)			
Observations	1,669	2,229			
\mathbb{R}^2	0.195	0.132			
Adjusted R ²	0.192	0.130			
Residual Std. Error	0.346 (df = 1663)	0.311 (df = 2223)	0.000		
F Statistic	$80.508^{***} (df = 5; 1663)$	$67.496^{***} (df = 5; 2223)$	238,951,667,917,992,846,420		

Note: