EPPS 6316 : Recitation Session #6

Oct. 19. 2012

Questions?

- You learned:
- Additive dummy variables
- Multiplicative dummy variables
- Interactive dummy variables
- etc.

Problem 1

reg realrinc educ age female married white femage femedu femalemarried

Source	SS	df	MS	Number of obs =	1941
 +				F(8, 1932) =	86.16
Model	1.9309e+11	8	2.4137e+10	Prob > F =	0.0000
Residual	5.4120e+11	1932	280125777	R-squared =	0.2630
 +				Adj R-squared =	0.2599
Total	7.3430e+11	1940	378502579	Root MSE =	16737

realrinc		Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
educ	İ	3099.178	197.9623	15.66	0.000	2710.936	3487.42
age		406.0277	42.58114	9.54	0.000	322.5179	489.5376
female	1	15489.91	4703.047	3.29	0.001	6266.328	24713.49
married	1	5469.593	1103.49	4.96	0.000	3305.438	7633.749
white	1	643.3327	994.1187	0.65	0.518	-1306.326	2592.991
femage	1	-181.0588	61.17309	-2.96	0.003	-301.031	-61.08654
femeduc	1	-1089.988	285.0856	-3.82	0.000	-1649.095	-530.8797
${\tt femalemarr~d}$	1	-5221.796	1543	-3.38	0.001	-8247.915	-2195.677
_cons	I	-36511.18	3283.073	-11.12	0.000	-42949.92	-30072.44

Our model is :

$$realincome = \beta_0 + \beta_1 educ + \beta_2 age + \beta_3 female + \beta_4 married + \beta_5 white \\ + \beta_6 female * age + \beta_7 female * educ + \beta_8 female * married$$

- 1. Interpret the effect of White on real income
- 2. Ignore all β , except β_0 , β_1 , β_3 , β_7 and interpret them.
- 3. Interpret β_8
- 4. Interpret the effect of age on real income