

Dauids__R__Script

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Code for loading Library Packages

The following regressions show in table form will represent the effects of the Headstart program on PPVTat3, College Education, and High School graduation.

We decided to use a Genearlized Linear Models and a Linear Models to proceed with analysis of the effect of Headstart program. For the first model, we regressed the data for PPVTat3 on headstart using a linear fit. The effect of the headstart program in this model shows a negative

#HS on PPVT Score

=====

Dependent variable:

	PPVTat3			
	(1)	(2)	(3)	(4)
headstart				
	6.741***	-6.392***	-2.992***	-2.179**
	(1.054)	(1.063)	(1.010)	(1.008)
BirthWeight	0.065***	0.045**		
	(0.021)	(0.019)		
hsgrad	3.236***			
	(0.793)			
FirstBorn	3.543***			
	(0.791)			
Hispanic	-8.504***	-8.341***		
	(1.073)	(1.067)		
Black	-12.205***	-11.902***		
	(0.946)	(0.948)		
Male	-0.181	0.193	0.575	
	(0.859)	(0.783)	(0.788)	
Constant	25.028***	17.557***	29.140***	20.154***
	(0.477)	(2.464)	(0.671)	(2.327)

Observations 984 963 984 963

R2 0.040 0.046 0.191 0.221

Adjusted R2 0.039 0.043 0.188 0.216

Residual Std. Error 13.348 (df = 982) 13.263 (df = 959) 12.270 (df = 979) 12.010 (df = 955)

F Statistic 40.942*** (df = 1; 982) 15.582*** (df = 3; 959) 57.909*** (df = 4; 979) 38.783*** (df = 7; 955)

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Note: $p < 0.1$; $p < 0.05$; $p < 0.01$

#HS on College Enrollment

```

##
## Regressions of HS on College Enrollment
## =====
##                               Dependent variable:
##                               -----
##                               somecollege
##                               (1)      (2)      (3)      (4)
## -----
## headstart      0.486***   0.493***   0.269***   0.058
##                (0.055)   (0.056)   (0.058)   (0.066)
##
## Male           -0.301***  -0.306***  -0.408***
##                (0.045)   (0.045)   (0.051)
##
## Black          0.692***   0.790***
##                (0.053)   (0.063)
##
## Hispanic       0.482***   0.513***
##                (0.059)   (0.068)
##
## BirthWeight    0.002**
##                (0.001)
##
## LogInc_0to3    0.140***
##                (0.033)
##
## Constant      -1.292***  -1.146***  -1.414***  -2.499***
##                (0.025)   (0.032)   (0.040)   (0.363)
##
## -----
## Observations   11,470    11,470    11,470    7,126
## Log Likelihood -6,162.935 -6,140.100 -6,049.910 -4,482.696
## Akaike Inf. Crit. 12,329.870 12,286.200 12,109.820 8,979.392
## =====
## Note:                               *p<0.1; **p<0.05; ***p<0.01

```

#HS on High School grad

```

##
## Regressions of HS on High School Graduation
## =====
##                               Dependent variable:
##                               -----
##                               hsgrad
##                               (1)      (2)      (3)      (4)
## -----
## headstart      0.486***   0.493***   0.269***   0.088
##                (0.055)   (0.056)   (0.058)   (0.065)
##
## Male           -0.301***  -0.306***  -0.390***
##                (0.045)   (0.045)   (0.050)
##
## Black          0.692***   0.738***
##                (0.053)   (0.061)

```

```

##
## Hispanic                0.482***   0.544***
##                        (0.059)   (0.067)
##
## LogInc_0to3            0.091***
##                        (0.035)
##
## MothED                 0.043***
##                        (0.011)
##
## Constant      -1.292***  -1.146***  -1.414***  -2.293***
##                (0.025)   (0.032)   (0.040)   (0.340)
##
## -----
## Observations      11,470    11,470    11,470    7,479
## Log Likelihood    -6,162.935 -6,140.100 -6,049.910 -4,653.955
## Akaike Inf. Crit. 12,329.870 12,286.200 12,109.820 9,321.910
## =====
## Note:                *p<0.1; **p<0.05; ***p<0.01

```