

Resumen del output de los distintos análisis en Stata

* codificación de variables

```
replace dep=0 if dep==2
replace sexo=0 if sexo==2
replace proambiente=0 if proambiente==2
replace subsidios=0 if subsidios==2
replace dedu=0 if dedu==2
```

* Cambiando el nombre de la variable "dep"

```
rename dep res
```

* generando una variable que detecte respuestas contradictorias

```
gen invalido=0
replace invalido=1 if dep==1 & openwtp<costo
replace invalido=1 if dep==0 & openwtp>costo
```

* Resumen de las variables

```
. sum ingreso edad sexo proambiente subsidios dep dedu
```

Variable	Obs	Mean	Std. Dev.	Min	Max
ingreso	567	3.388007	1.340217	1	6
edad	567	39.23457	14.80413	18	79
sexo	567	.303351	.4601114	0	1
proambiente	567	.1269841	.3332492	0	1
subsidios	567	.0194004	.1380492	0	1
dep	567	1.597884	1.47794	0	7
dedu	567	.9029982	.2962215	0	1

```
. tab costo
```

costo	Freq.	Percent	Cum.
1	61	10.76	10.76
5	60	10.58	21.34
10	71	12.52	33.86
15	81	14.29	48.15
25	67	11.82	59.96
35	67	11.82	71.78
50	84	14.81	86.60
100	76	13.40	100.00
Total	567	100.00	

. tab res

res	Freq.	Percent	Cum.
0	274	48.32	48.32
1	293	51.68	100.00
Total	567	100.00	

. tab costo res

costo	res		Total
	0	1	
1	6	55	61
5	17	43	60
10	25	46	71
15	35	46	81
25	34	33	67
35	40	27	67
50	59	25	84
100	58	18	76
Total	274	293	567

***correlación y multicolinealidad**

. corr ingreso edad sexo proambiente subsidios dep dedu (obs=567)

	ingreso	edad	sexo	proamb~e	subsid~s	dep	dedu
ingreso	1.0000						
edad	0.3901	1.0000					
sexo	0.0609	0.0401	1.0000				
proambiente	0.0675	0.1823	0.0249	1.0000			
subsidios	-0.1172	-0.0792	-0.0372	-0.0152	1.0000		
dep	0.1164	0.3088	0.0342	0.1792	-0.0137	1.0000	
dedu	0.1617	0.1200	-0.0948	0.0176	-0.1267	-0.0166	1.0000

```
. reg res costo ingreso dedu sexo proambiente subsidios dep edad
```

Source	SS	df	MS	Number of obs	=	567
-----+-----						
Model	23.6690108	8	2.95862635	F(8, 558)	=	14.00
Residual	117.921818	558	.211329423	Prob > F	=	0.0000
-----+-----						
Total	141.590829	566	.250160475	R-squared	=	0.1672
				Adj R-squared	=	0.1552
				Root MSE	=	.45971

res	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
costo	-.0057744	.0006302	-9.16	0.000	-.0070122	-.0045366
ingreso	.0430359	.0158754	2.71	0.007	.0118531	.0742188
dedu	-.0889555	.0673253	-1.32	0.187	-.2211974	.0432865
sexo	-.0142869	.0423805	-0.34	0.736	-.0975317	.0689579
proambiente	-.1133286	.0596111	-1.90	0.058	-.2304183	.003761
subsidios	-.2559271	.1419963	-1.80	0.072	-.5348396	.0229855
dep	-.0191443	.0138912	-1.38	0.169	-.0464299	.0081412
edad	-.0043427	.0015004	-2.89	0.004	-.0072897	-.0013956
_cons	.8603322	.0886191	9.71	0.000	.6862643	1.0344

. vif (note que se obtienen los mismos resultados si se utiliza "openwtp" como variable dependiente, ¿por qué?)

Variable	VIF	1/VIF
-----+-----		
edad	1.32	0.756809
ingreso	1.21	0.824790
dependientes	1.13	0.885824
dedu	1.07	0.938759
proambiente	1.06	0.946130
subsidios	1.03	0.971677
costo	1.02	0.980613
sexo	1.02	0.981942
-----+-----		
Mean VIF	1.11	

* Estimación de regresiones logit y análisis de los resultados

. logit res costo ingreso dedu sexo proambiente subsidios res edad

Iteration 0: log likelihood = -392.69605
 Iteration 1: log likelihood = -341.12225
 Iteration 2: log likelihood = -340.87355
 Iteration 3: log likelihood = -340.87314
 Iteration 4: log likelihood = -340.87314

Logistic regression	Number of obs	=	567
	LR chi2(8)	=	103.65
	Prob > chi2	=	0.0000
Log likelihood = -340.87314	Pseudo R2	=	0.1320

res	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
costo	-.0281246	.0035803	-7.86	0.000	-.0351419 - .0211073
ingreso	.2035736	.0774579	2.63	0.009	.0517589 .3553883
dedu	-.4501021	.3292842	-1.37	0.172	-1.095487 .1952831
sexo	-.0675133	.2027081	-0.33	0.739	-.4648139 .3297874
proambiente	-.5543476	.2882283	-1.92	0.054	-1.119265 .0105696
subsidios	-1.205903	.724913	-1.66	0.096	-2.626707 .2148998
dep	-.0916945	.0668581	-1.37	0.170	-.222734 .039345
edad	-.0203539	.0072388	-2.81	0.005	-.0345416 -.0061661
_cons	1.706137	.4366423	3.91	0.000	.8503342 2.56194

. fitstat

Measures of Fit for logit of res

Log-Lik Intercept Only:	-392.696	Log-Lik Full Model:	-340.873
D(558):	681.746	LR(8):	103.646
		Prob > LR:	0.000
McFadden's R2:	0.132	McFadden's Adj R2:	0.109
Maximum Likelihood R2:	0.167	Cragg & Uhler's R2:	0.223
McKelvey and Zavoina's R2:	0.230	Efron's R2:	0.174
Variance of y*:	4.272	Variance of error:	3.290
Count R2:	0.688	Adj Count R2:	0.354
AIC:	1.234	AIC*n:	699.746
BIC:	-2856.174	BIC':	-52.923

. estat ic

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	567	-392.696	-340.8731	9	699.7463	738.8095

Note: N=Obs used in calculating BIC; see [R] BIC note.

```
. estat class
```

```
Logistic model for res
```

Classified	True		Total
	D	~D	
+	228	112	340
-	65	162	227
Total	293	274	567

```
Classified + if predicted Pr(D) >= .5
```

```
True D defined as res != 0
```

Sensitivity	Pr(+ D)	77.82%
Specificity	Pr(- ~D)	59.12%
Positive predictive value	Pr(D +)	67.06%
Negative predictive value	Pr(~D -)	71.37%
False + rate for true ~D	Pr(+ ~D)	40.88%
False - rate for true D	Pr(- D)	22.18%
False + rate for classified +	Pr(~D +)	32.94%
False - rate for classified -	Pr(D -)	28.63%
Correctly classified		68.78%

```
. margins, dydx(*)
```

```
Average marginal effects          Number of obs    =          567  
Model VCE      : OIM
```

```
Expression      : Pr(res), predict()
```

```
dy/dx w.r.t.   : costo ingreso dedu sexo proambiente subsidios dep edad
```

	dy/dx	Delta-method Std. Err.	z	P> z	[95% Conf. Interval]	
costo	-.0058341	.0005842	-9.99	0.000	-.0069792	-.004689
ingreso	.0422288	.0157132	2.69	0.007	.0114315	.0730261
dedu	-.0933681	.0679266	-1.37	0.169	-.2265019	.0397657
sexo	-.0140048	.0420354	-0.33	0.739	-.0963926	.068383
proambiente	-.1149926	.0590677	-1.95	0.052	-.230763	.0007779
subsidios	-.2501498	.1490331	-1.68	0.093	-.5422493	.0419498
dep	-.0190209	.0137871	-1.38	0.168	-.0460431	.0080014
edad	-.0042222	.0014631	-2.89	0.004	-.0070898	-.0013546

```
. wtpcikr costo ingreso dedu sexo proambiente subsidios dep edad
```

Krinsky and Robb (95 %) Confidence Interval for WTP measures (Nb of reps: 5000)

MEASURE	WTP	LB	UB	ASL*	CI/MEAN
MEAN/MEDIAN	33.07	26.56	40.05	0.0000	0.41

*: Achieved Significance Level for testing H0: WTP<=0 vs. H1: WTP>0

LB: Lower bound; UB: Upper bound

*** Estimaciones excluyendo las respuestas contradictorias**

```
. logit res costo ingreso dedu sexo proambiente subsidios dep edad if
invalido==0
```

```
Iteration 0: log likelihood = -309.5771
Iteration 1: log likelihood = -228.23471
Iteration 2: log likelihood = -221.44281
Iteration 3: log likelihood = -221.32378
Iteration 4: log likelihood = -221.32375
Iteration 5: log likelihood = -221.32375
```

```
Logistic regression                Number of obs    =      454
                                   LR chi2(8)         =     176.51
                                   Prob > chi2         =      0.0000
Log likelihood = -221.32375        Pseudo R2        =      0.2851
```

res	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
costo	-.0632665	.007398	-8.55	0.000	-.0777663 - .0487667
ingreso	.2496872	.095949	2.60	0.009	.0616306 .4377439
dedu	-.8490904	.4533894	-1.87	0.061	-1.737717 .0395364
sexo	-.058159	.2571106	-0.23	0.821	-.5620865 .4457685
proambiente	-.5160036	.3629586	-1.42	0.155	-1.227389 .1953822
subsidios	-.6989667	.9488494	-0.74	0.461	-2.558677 1.160744
dep	-.2646231	.0871852	-3.04	0.002	-.4355029 -.0937433
edad	-.0176112	.0090239	-1.95	0.051	-.0352977 .0000754
_cons	2.35954	.5813377	4.06	0.000	1.220139 3.498941

```
. fitstat
```

Measures of Fit for logit of res

Log-Lik Intercept Only:	-309.577	Log-Lik Full Model:	-221.324
D(445):	442.648	LR(8):	176.507
		Prob > LR:	0.000
McFadden's R2:	0.285	McFadden's Adj R2:	0.256
Maximum Likelihood R2:	0.322	Cragg & Uhler's R2:	0.433
McKelvey and Zavoina's R2:	0.569	Efron's R2:	0.359
Variance of y*:	7.636	Variance of error:	3.290
Count R2:	0.762	Adj Count R2:	0.440
AIC:	1.015	AIC*n:	460.648
BIC:	-2279.906	BIC':	-127.562

```
. estat ic
```

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	454	-309.5771	-221.3238	9	460.6475	497.7104

Note: N=Obs used in calculating BIC; see [R] BIC note.

```
. estat class
```

Logistic model for res

Classified	True		Total
	D	~D	
+	147	62	209
-	46	199	245
Total	193	261	454

Classified + if predicted Pr(D) >= .5
True D defined as res != 0

Sensitivity	Pr(+ D)	76.17%
Specificity	Pr(- ~D)	76.25%
Positive predictive value	Pr(D +)	70.33%
Negative predictive value	Pr(~D -)	81.22%
False + rate for true ~D	Pr(+ ~D)	23.75%
False - rate for true D	Pr(- D)	23.83%
False + rate for classified +	Pr(~D +)	29.67%
False - rate for classified -	Pr(D -)	18.78%
Correctly classified		76.21%

```
. margins if invalido==0, dydx(*)
```

```
Average marginal effects          Number of obs    =          454  
Model VCE      : OIM
```

```
Expression   : Pr(res), predict()  
dy/dx w.r.t. : costo ingreso dedu sexo proambiente subsidios dep edad
```

```
-----  
          |              Delta-method  
          |      dy/dx   Std. Err.      z    P>|z|    [95% Conf. Interval]  
-----+-----  
      costo |   -.0103654   .000781   -13.27   0.000   -.0118962   -.0088346  
     ingreso |    .040908   .0152434    2.68   0.007    .0110316   .0707845  
        dedu |   -.1391126   .0732381   -1.90   0.058   -.2826567   .0044315  
        sexo |   -.0095286   .0421125   -0.23   0.821   -.0920676   .0730104  
proambiente |   -.0845406   .0589176   -1.43   0.151   -.2000169   .0309358  
   subsidios |   -.1145167   .1550767   -0.74   0.460   -.4184614   .1894279  
        dep |   -.0433551   .0137242   -3.16   0.002   -.0702541   -.0164561  
        edad |   -.0028854   .0014551   -1.98   0.047   -.0057373   -.0000334  
-----
```

```
. wtpcikr costo ingreso dedu sexo proambiente subsidios dep edad if  
invalido==0
```

```
Krinsky and Robb (95 %) Confidence Interval for WTP measures (Nb of reps:  
5000)
```

```
-----  
+-----+-----+-----+-----+-----+-----+  
| MEASURE | WTP | LB | UB | ASL* | CI/MEAN |  
+-----+-----+-----+-----+-----+-----+  
| MEAN/MEDIAN | 19.32 | 15.68 | 23.06 | 0.0000 | 0.38 |  
+-----+-----+-----+-----+-----+-----+
```

```
*: Achieved Significance Level for testing H0: WTP<=0 vs. H1: WTP>0  
LB: Lower bound; UB: Upper bound
```