Feb 2, 2020 EV Stata HPC Kernel

February 3, 2020

0.0.1 Download package

- cap ssc install package_name

[1]:
```
# cap ssc install estout
```

0.0.2 Load data

- use "data.dta", clear

[2]:
```
use "2019_12_04_ev184.dta", clear
```

[3]:
```
sum
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
           y |        184    .6413043    .4809263          0          1
         age |        184    2.326087    .8246038          1          5
      gender |        184     .798913    .4019065          0          1
    marriage |        184    .3967391    .4905559          0          1
    student1 |        184    .0543478    .2273213          0          1
-------------+---------------------------------------------------------
company_man2 |        184    .0271739    .1630336          0          1
public_off~3 |        184    .4836957    .5010976          0          1
 profession4 |        184    .2771739    .4488244          0          1
 researcher5 |        184    .0923913    .2903677          0          1
       learn |        184    3.217391    .5084228          2          4
-------------+---------------------------------------------------------
      income |        184    2.298913    1.486845          1          6
avg_distance |        184    3.293478    1.511617          1          6
 freq_use_ev |        184    3.119565    1.325186          1          6
 club_kepco2 |        184    .5217391    .5008902          0          1
  club_jeju3 |        184    .2771739    .4488244          0          1
-------------+---------------------------------------------------------
    ev_owner |        184    .0978261    .2978899          0          1
 saving_free |        184    .8913043    .3121062          0          1
a_cons_sho~s |        184    3.733696     1.09632          1          5
   a_cons_as |        184    3.315217    1.209519          1          5
```

a_cons_cha~e	184	2.771739	1.174439	1	5
a_cons_num~k	184	4.108696	1.029154	1	5
a_cons_lon~e	184	3.913043	1.015209	1	5
a_cons_hil~e	184	2.717391	1.244231	1	5
a_cons_hac	184	3.184783	1.288277	1	5
num_car	184	.9130435	.6385122	0	3
cost_reuse	184	.8967391	.3051296	0	1
a_cons_bat~f	184	3.440217	1.094802	1	5
a_cons_rea~n	184	2.766304	1.194137	1	5
b_cons_sho~s	184	4	.9750998	1	5
b_cons_bat~f	184	3.711957	.8923895	1	5
b_cons_as	184	3.586957	1.057393	1	5
b_cons_rea~n	184	3.048913	1.057267	1	5
b_cons_cha~e	184	3.163043	1.11891	1	5
b_cons_num~k	184	4.304348	.865099	1	5
b_cons_lon~e	184	4.119565	.9034529	1	5
b_cons_hil~e	184	3.25	1.229199	1	5
b_cons_hac	184	3.445652	1.143899	1	5
g_cons_sho~s	184	-.2663043	1.060856	-3	3
g_cons_bat~f	184	-.2717391	1.097471	-3	3
g_cons_as	184	-.2717391	1.155677	-3	3
g_cons_rea~n	184	-.2826087	1.089704	-3	3
g_cons_cha~e	184	-.3913043	1.075881	-4	3
g_cons_num~k	184	-.1956522	.960864	-3	3
g_cons_lon~e	184	-.2065217	1.03002	-3	4
g_cons_hil~e	184	-.5326087	1.209716	-4	4
g_cons_hac	184	-.2608696	1.248996	-4	4
inc_b_con~is	184	9.184783	6.713382	1	30
inc_b_cons~f	184	8.451087	5.953169	1	30
inc_b_con~as	184	8.320652	6.402732	1	30
inc_b_cons~n	184	6.75	4.918183	1	30
inc_b_con~ee	184	7.092391	5.206883	1	30
inc_b_cons~k	184	10.03261	7.176085	1	30
inc_b_con~me	184	9.5	6.780718	1	30
inc_b_con~de	184	7.26087	5.758092	1	30
inc_b_cons~c	184	7.836957	6.116853	1	30
age1	184	.1304348	.3377001	0	1
age2	184	.5054348	.5013346	0	1
age3	184	.2771739	.4488244	0	1
age4	184	.0815217	.2743813	0	1

```
   undergrad |        184    .6956522    .4613861          0          1
-------------+---------------------------------------------------------
    graduate |        184    .2608696     .440307          0          1
    own_mine |        184    .0978261    .2978899          0          1
     own_job |        184    .1467391    .3548111          0          1
   own_state |        184     .173913    .3800689          0          1
    own_rent |        184    .0054348     .073721          0          1
-------------+---------------------------------------------------------
own_carsha~g |        184    .5054348    .5013346          0          1
 mot_new_car |        184    .0815217    .2743813          0          1
mot_new_tech |        184    .0652174    .2475828          0          1
mot_fuel_c~t |        184    .1467391    .3548111          0          1
 mot_subsidy |        184    .0163043    .1269888          0          1
-------------+---------------------------------------------------------
mot_tax_re~n |        184    .0163043    .1269888          0          1
mot_ride_c~t |        184    .1086957    .3121062          0          1
mot_enviro~t |        184    .2228261     .417278          0          1
      mot_pr |        184    .0652174    .2475828          0          1
mot_business |        184    .2119565    .4098093          0          1
-------------+---------------------------------------------------------
mot_research |        184    .0217391    .1462284          0          1
use_shopping |        184    .0923913    .2903677          0          1
  use_school |        184    .0108696     .103972          0          1
 use_commute |        184    .0597826    .2377305          0          1
    use_task |        184    .4673913    .5002969          0          1
-------------+---------------------------------------------------------
 use_leisure |        184    .2771739    .4488244          0          1
--more--
```

[4]:
```
%head 5
```

```
     +-------------------------------------------------------------------------------------------
  1. | y | age | gender | marriage | student1 | compan~2 | public~3 | profes~4 | resear~5 | lea
     | 1 |   2 |      1 |        0 |        0 |        0 |        1 |        0 |        0 |
     |---------+-----------+-----------+-----------+-----------+-----------+-----------+-----------
     | num_car | cost_r~e | a_cons~f | a_cons~n | b_con~is | b_cons~f | b_con~as | b_cons~n | b
     |       0 |        1 |        2 |        2 |        5 |        5 |        3 |        3 |
     |-----------------------------------------------------------------------------------------
     | inc_b~is | inc_b_~f | inc_b~as | inc_b_~n | inc_b~ee | inc_b_~k | inc_b~me | inc_b~de |
     |        5 |        5 |        3 |        3 |        1 |        5 |        4 |        4 |
     |----------+----------+----------+-----------------------------------------------------------
     | mot_ta~n | mot_ri~t | mot_en~t | mot_pr | mot_bu~s | mot_re~h | use_sh~g | use_sc~l | us
     |        0 |        0 |        0 |      1 |        0 |        0 |        0 |        0 |
     |----------+----------+----------+-----------------------------------------------------------
     | inc_st~t | inc_co~n | inc_pu~r | inc_pr~n | inc_re~r | inc_le~n | inc_av~s | inc_fr~e |
     |        0 |        0 |        1 |        0 |        0 |        3 |        6 |        3 |
     |-----------------------------------------------------------------------------------------
     |    int_av..    |    i~num_~e    |    int_a~ee    |    int_a~as    |    int_a~is    |
```

18	30	6	30	30

2.

y	age	gender	marriage	student1	compan~2	public~3	profes~4	resear~5	lea
0	2	1	1	0	0	1	0	0	

num_car	cost_r~e	a_cons~f	a_cons~n	b_con~is	b_cons~f	b_con~as	b_cons~n	l
1	1	5	1	5	5	4	2	

inc_b~is	inc_b_~f	inc_b~as	inc_b_~n	inc_b~ee	inc_b_~k	inc_b~me	inc_b~de	
5	5	4	2	2	5	5	1	

mot_ta~n	mot_ri~t	mot_en~t	mot_pr	mot_bu~s	mot_re~h	use_sh~g	use_sc~l	us
0	0	1	0	0	0	1	0	

inc_st~t	inc_co~n	inc_pu~r	inc_pr~n	inc_re~r	inc_le~n	inc_av~s	inc_fr~e	
0	0	1	0	0	3	3	3	

int_av..	i~num_~e	int_a~ee	int_a~as	int_a~is	
15	15	3	15	15	

3.

y	age	gender	marriage	student1	compan~2	public~3	profes~4	resear~5	lea
0	2	1	0	0	0	1	0	0	

num_car	cost_r~e	a_cons~f	a_cons~n	b_con~is	b_cons~f	b_con~as	b_cons~n	l
1	1	2	1	3	3	4	1	

inc_b~is	inc_b_~f	inc_b~as	inc_b_~n	inc_b~ee	inc_b_~k	inc_b~me	inc_b~de	
9	9	12	3	3	3	3	3	

mot_ta~n	mot_ri~t	mot_en~t	mot_pr	mot_bu~s	mot_re~h	use_sh~g	use_sc~l	us
0	0	0	0	1	0	0	0	

inc_st~t	inc_co~n	inc_pu~r	inc_pr~n	inc_re~r	inc_le~n	inc_av~s	inc_fr~e	
0	0	3	0	0	9	15	15	

int_av..	i~num_~e	int_a~ee	int_a~as	int_a~is	
5	5	5	10	10	

4.

y	age	gender	marriage	student1	compan~2	public~3	profes~4	resear~5	lea
1	3	1	0	0	0	1	0	0	

num_car	cost_r~e	a_cons~f	a_cons~n	b_con~is	b_cons~f	b_con~as	b_cons~n	l

```
|       1 |       1 |       4 |       5 |       5 |       3 |       5 |       5 |
|---------+---------+---------+---------+---------+---------+---------+---------+
| inc_b~is | inc_b_~f | inc_b~as | inc_b_~n | inc_b~ee | inc_b_~k | inc_b~me | inc_b~de |
|       5 |       3 |       5 |       5 |       3 |       5 |       5 |       1 |
|---------+---------+---------+---------+---------+---------+---------+---------+
| mot_ta~n | mot_ri~t | mot_en~t | mot_pr | mot_bu~s | mot_re~h | use_sh~g | use_sc~l | us
|       0 |       0 |       0 |      0 |       0 |       0 |       0 |       0 |
|---------+---------+---------+---------+---------+---------+---------+---------+
| inc_st~t | inc_co~n | inc_pu~r | inc_pr~n | inc_re~r | inc_le~n | inc_av~s | inc_fr~e |
|       0 |       0 |       1 |       0 |       0 |       4 |       6 |       6 |
|---------+---------+---------+---------+---------+---------+---------+---------+
|    int_av..    |    i~num_~e    |    int_a~ee    |    int_a~as    |    int_a~is    |
|         30     |         30     |         12     |         24     |         24     |
+----------------+----------------+----------------+----------------+----------------+
```

```
+-------------------------------------------------------------------------------------
5. | y | age | gender | marriage | student1 | compan~2 | public~3 | profes~4 | resear~5 | lea
   | 1 |   4 |      1 |        0 |        0 |        0 |        0 |        0 |        1 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   | num_car | cost_r~e | a_cons~f | a_cons~n | b_con~is | b_cons~f | b_con~as | b_cons~n | l
   |       1 |       1 |       5 |       3 |       5 |       5 |       3 |       3 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   | inc_b~is | inc_b_~f | inc_b~as | inc_b_~n | inc_b~ee | inc_b_~k | inc_b~me | inc_b~de |
   |      20 |      20 |      12 |      12 |      12 |      20 |      20 |      12 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   | mot_ta~n | mot_ri~t | mot_en~t | mot_pr | mot_bu~s | mot_re~h | use_sh~g | use_sc~l | us
   |       0 |       0 |       0 |      0 |       1 |       0 |       0 |       0 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   | inc_st~t | inc_co~n | inc_pu~r | inc_pr~n | inc_re~r | inc_le~n | inc_av~s | inc_fr~e |
   |       0 |       0 |       0 |       0 |       4 |      16 |      16 |      12 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   |    int_av..    |    i~num_~e    |    int_a~ee    |    int_a~as    |    int_a~is    |
   |         20     |         20     |         12     |         20     |         20     |
   +----------------+----------------+----------------+----------------+----------------+
```

[5]:
```
%browse 5
```

```
+-------------------------------------------------------------------------------------
1. | y | age | gender | marriage | student1 | compan~2 | public~3 | profes~4 | resear~5 | lea
   | 1 |   2 |      1 |        0 |        0 |        0 |        1 |        0 |        0 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   | num_car | cost_r~e | a_cons~f | a_cons~n | b_con~is | b_cons~f | b_con~as | b_cons~n | l
   |       0 |       1 |       2 |       2 |       5 |       5 |       3 |       3 |
   |---------+---------+---------+---------+---------+---------+---------+---------+
   | inc_b~is | inc_b_~f | inc_b~as | inc_b_~n | inc_b~ee | inc_b_~k | inc_b~me | inc_b~de |
```

5	5	3	3	1	5	4	4
mot_ta~n	mot_ri~t	mot_en~t	mot_pr	mot_bu~s	mot_re~h	use_sh~g	use_sc~l	us
0	0	0	1	0	0	0	0	
inc_st~t	inc_co~n	inc_pu~r	inc_pr~n	inc_re~r	inc_le~n	inc_av~s	inc_fr~e	
0	0	1	0	0	3	6	3	
int_av..	i~num_~e	int_a~ee	int_a~as	int_a~is				
18	30	6	30	30				

2.

y	age	gender	marriage	student1	compan~2	public~3	profes~4	resear~5	lea
0	2	1	1	0	0	1	0	0	
num_car	cost_r~e	a_cons~f	a_cons~n	b_con~is	b_cons~f	b_con~as	b_cons~n		
1	1	5	1	5	5	4	2		
inc_b~is	inc_b_~f	inc_b~as	inc_b_~n	inc_b~ee	inc_b_~k	inc_b~me	inc_b~de		
5	5	4	2	2	5	5	1		
mot_ta~n	mot_ri~t	mot_en~t	mot_pr	mot_bu~s	mot_re~h	use_sh~g	use_sc~l	us	
0	0	1	0	0	0	1	0		
inc_st~t	inc_co~n	inc_pu~r	inc_pr~n	inc_re~r	inc_le~n	inc_av~s	inc_fr~e		
0	0	1	0	0	3	3	3		
int_av..	i~num_~e	int_a~ee	int_a~as	int_a~is					
15	15	3	15	15					

3.

y	age	gender	marriage	student1	compan~2	public~3	profes~4	resear~5	lea
0	2	1	0	0	0	1	0	0	
num_car	cost_r~e	a_cons~f	a_cons~n	b_con~is	b_cons~f	b_con~as	b_cons~n		
1	1	2	1	3	3	4	1		
inc_b~is	inc_b_~f	inc_b~as	inc_b_~n	inc_b~ee	inc_b_~k	inc_b~me	inc_b~de		
9	9	12	3	3	3	3	3		
mot_ta~n	mot_ri~t	mot_en~t	mot_pr	mot_bu~s	mot_re~h	use_sh~g	use_sc~l	us	
0	0	0	0	1	0	0	0		
inc_st~t	inc_co~n	inc_pu~r	inc_pr~n	inc_re~r	inc_le~n	inc_av~s	inc_fr~e		
0	0	3	0	0	9	15	15		

```
|    int_av..    |    i~num_~e    |    int_a~ee    |    int_a~as    |    int_a~is    |
|          5     |          5     |          5     |         10     |         10     |
+----------------+----------------+----------------+----------------+----------------+

+---------+---------+---------+---------+---------+---------+---------+---------+---------+
4. | y | age | gender | marriage | student1 | compan~2 | public~3 | profes~4 | resear~5 | lea
   | 1 |   3 |      1 |        0 |        0 |        0 |        1 |        0 |        0 |
   |---------+---------+---------+---------+---------+---------+---------+---------+---------+
   | num_car | cost_r~e | a_cons~f | a_cons~n | b_con~is | b_cons~f | b_con~as | b_cons~n | l
   |       1 |        1 |        4 |        5 |        5 |        3 |        5 |        5 |
   |---------+---------+---------+---------+---------+---------+---------+---------+---------+
   | inc_b~is | inc_b_~f | inc_b~as | inc_b_~n | inc_b~ee | inc_b_~k | inc_b~me | inc_b~de |
   |        5 |        3 |        5 |        5 |        3 |        5 |        5 |        1 |
   |----------+----------+----------+----------+----------+----------+----------+----------+
   | mot_ta~n | mot_ri~t | mot_en~t | mot_pr | mot_bu~s | mot_re~h | use_sh~g | use_sc~l | us
   |        0 |        0 |        0 |      0 |        0 |        0 |        0 |        0 |
   |----------+----------+----------+----------+----------+----------+----------+----------+
   | inc_st~t | inc_co~n | inc_pu~r | inc_pr~n | inc_re~r | inc_le~n | inc_av~s | inc_fr~e |
   |        0 |        0 |        1 |        0 |        0 |        4 |        6 |        6 |
   |----------+----------+----------+----------+----------+----------+----------+----------+
   |    int_av..    |    i~num_~e    |    int_a~ee    |    int_a~as    |    int_a~is    |
   |          30    |          30    |          12    |          24    |          24    |
   +----------------+----------------+----------------+----------------+----------------+

+---------+---------+---------+---------+---------+---------+---------+---------+---------+
5. | y | age | gender | marriage | student1 | compan~2 | public~3 | profes~4 | resear~5 | lea
   | 1 |   4 |      1 |        0 |        0 |        0 |        0 |        0 |        1 |
   |---------+---------+---------+---------+---------+---------+---------+---------+---------+
   | num_car | cost_r~e | a_cons~f | a_cons~n | b_con~is | b_cons~f | b_con~as | b_cons~n | l
   |       1 |        1 |        5 |        3 |        5 |        5 |        3 |        3 |
   |---------+---------+---------+---------+---------+---------+---------+---------+---------+
   | inc_b~is | inc_b_~f | inc_b~as | inc_b_~n | inc_b~ee | inc_b_~k | inc_b~me | inc_b~de |
   |       20 |       20 |       12 |       12 |       12 |       20 |       20 |       12 |
   |----------+----------+----------+----------+----------+----------+----------+----------+
   | mot_ta~n | mot_ri~t | mot_en~t | mot_pr | mot_bu~s | mot_re~h | use_sh~g | use_sc~l | us
   |        0 |        0 |        0 |      0 |        1 |        0 |        0 |        0 |
   |----------+----------+----------+----------+----------+----------+----------+----------+
   | inc_st~t | inc_co~n | inc_pu~r | inc_pr~n | inc_re~r | inc_le~n | inc_av~s | inc_fr~e |
   |        0 |        0 |        0 |        0 |        4 |       16 |       16 |       12 |
   |----------+----------+----------+----------+----------+----------+----------+----------+
   |    int_av..    |    i~num_~e    |    int_a~ee    |    int_a~as    |    int_a~is    |
   |          20    |          20    |          12    |          20    |          20    |
   +----------------+----------------+----------------+----------------+----------------+
```

[12]:
```
%locals
```

[11]:
```
%globals
```

```
(note: showing first line of global values; run with --verbose)

S_E_depv:                   y
S_E_cmd:                    regress
eststo_counter:             3
eststo:                     est1 est2 est3
S_FNDATE:                    4 Dec 2019 23:57
S_FN:                       2019_12_04_ev184.dta
stata_kernel_graph_counter: 0
S_ADO:                      BASE;SITE;.;PERSONAL;PLUS;OLDPLACE;`"/home/jikhan.je
ong/.local/lib/python3.7/site-packages/stata_kernel/ado"'
S_level:                    95
F1:                         help advice;
F2:                         describe;
F7:                         save
F8:                         use
S_StataMP:                  MP
S_StataSE:                  SE
S_CONSOLE:                  console
S_FLAVOR:                   Intercooled
S_OS:                       Unix
S_MACH:                     PC (64-bit x86-64)
```

[15]:
```
corr a_cons_short_dis a_cons_as a_cons_charge_fee a_cons_num_charge_lack␣
↪a_cons_long_charge_time a_cons_hill_ride a_cons_hac
```

```
(obs=184)

             | a_con~is a_con~as a_con~ee a_cons~k a_con~me a_con~de a_cons~c
-------------+------------------------------------------------------------------
a_cons_sho~s |   1.0000
   a_cons_as |   0.1296   1.0000
a_cons_cha~e |   0.1265   0.2894   1.0000
a_cons_num~k |   0.4084   0.0470   0.2105   1.0000
a_cons_lon~e |   0.3768   0.2094   0.2033   0.5321   1.0000
a_cons_hil~e |   0.0206   0.3972   0.4044   0.0071   0.1492   1.0000
  a_cons_hac |   0.3059   0.3727   0.2989   0.1414   0.2589   0.5032   1.0000
```

[16]:
```
corr b_cons_short_dis b_cons_as b_cons_charge_fee b_cons_num_charge_lack␣
↪b_cons_long_charge_time b_cons_hill_ride b_cons_hac
```

```
(obs=184)

             | b_con~is b_con~as b_con~ee b_cons~k b_con~me b_con~de b_cons~c
-------------+------------------------------------------------------------------
```

```
b_cons_sho~s |   1.0000
   b_cons_as |   0.2544   1.0000
b_cons_cha~e |   0.0200   0.1265   1.0000
b_cons_num~k |   0.2591   0.1501   0.1686   1.0000
b_cons_lon~e |   0.4342   0.3323   0.1158   0.4426   1.0000
b_cons_hil~e |   0.1778   0.2144   0.2682   0.1233   0.2534   1.0000
  b_cons_hac |   0.2792   0.2885   0.0454   0.1217   0.2601   0.5305   1.0000
```

[17]:
```
corr g_cons_short_dis g_cons_as g_cons_charge_fee g_cons_num_charge_lack␣
↪g_cons_long_charge_time g_cons_hill_ride g_cons_hac
```

```
(obs=184)

             | g_con~is g_con~as g_con~ee g_cons~k g_con~me g_con~de g_cons~c
-------------+---------------------------------------------------------------
g_cons_sho~s |   1.0000
   g_cons_as |   0.0565   1.0000
g_cons_cha~e |   0.2050   0.0722   1.0000
g_cons_num~k |   0.3453   0.0158   0.2533   1.0000
g_cons_lon~e |   0.4095   0.1775   0.3951   0.3234   1.0000
g_cons_hil~e |   0.2125   0.3571   0.1959   0.1167   0.4419   1.0000
  g_cons_hac |   0.2648   0.2989   0.1229   0.1940   0.3657   0.5694   1.0000
```

[19]:
```
* without concern
logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3␣
↪ev_owner saving_free
estimates store base
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.37269
Iteration 2:   log likelihood = -101.63059
Iteration 3:   log likelihood = -101.61428
Iteration 4:   log likelihood = -101.61422
Iteration 5:   log likelihood = -101.61422

Logistic regression                             Number of obs     =        184
                                                LR chi2(16)       =      36.95
                                                Prob > chi2       =     0.0021
Log likelihood = -101.61422                     Pseudo R2         =     0.1539

------------------------------------------------------------------------------
-
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
```

```
Interval]
---------------+------------------------------------------------------------
-
           age |    .274336   .3003699     0.91   0.361    -.3143782
.8630502
        gender |  -.0015722   .5152088    -0.00   0.998    -1.011363
1.008218
      marriage |  -.4590257   .4839329    -0.95   0.343    -1.407517
.4894655
      student1 |   .3450083   1.066161     0.32   0.746    -1.744629
2.434646
   company_man2 |  -2.067243   1.312036    -1.58   0.115    -4.638787
.5043002
public_officer3 |  -.0315093   .7138255    -0.04   0.965    -1.430582
1.367563
    profession4 |  -.0396948   1.013224    -0.04   0.969    -2.025576
1.946187
    researcher5 |   2.121919     1.2466     1.70   0.089    -.3213727
4.565211
          learn |   -.054839    .400663    -0.14   0.891     -.840124
.730446
         income |   .0275763   .1579241     0.17   0.861    -.2819493
.3371019
   avg_distance |   .2881821   .1380183     2.09   0.037     .0176711
.558693
    freq_use_ev |   .0333223   .1683942     0.20   0.843    -.2967243
.363369
    club_kepco2 |  -.3207556   .4882694    -0.66   0.511    -1.277746
.6362347
     club_jeju3 |  -1.519045   .8552378    -1.78   0.076     -3.19528
.1571904
       ev_owner |   .7375384   .6415283     1.15   0.250     -.519834
1.994911
    saving_free |  -1.164929    .649149    -1.79   0.073    -2.437238
.1073795
          _cons |   .7791861   2.013614     0.39   0.699    -3.167424
4.725797
------------------------------------------------------------------------------
-
```

[20]:
```
* One concern series1. : a short distance

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3␣
 ↪ev_owner saving_free a_cons_short_dis
estimates store model1
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.01867
Iteration 2:   log likelihood =  -101.2717
Iteration 3:   log likelihood = -101.25563
Iteration 4:   log likelihood = -101.25557
Iteration 5:   log likelihood = -101.25557

Logistic regression                               Number of obs     =        184
                                                  LR chi2(17)       =      37.67
                                                  Prob > chi2       =     0.0027
Log likelihood = -101.25557                       Pseudo R2         =     0.1568

------------------------------------------------------------------------------
--
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
--
         age |   .2673993   .2997544     0.89   0.372    -.3201085
.854907
      gender |   .0343578   .5179634     0.07   0.947    -.9808319
1.049547
    marriage |  -.4436063   .4837573    -0.92   0.359    -1.391753
.5045407
    student1 |    .294405   1.074795     0.27   0.784    -1.812155
2.400965
 company_man2 |  -2.107942    1.32887    -1.59   0.113    -4.712479
.4965959
 public_officer3 |  -.0045423   .7170763    -0.01   0.995    -1.409986
1.400901
  profession4 |  -.0792351   1.017968    -0.08   0.938    -2.074416
1.915946
  researcher5 |   2.167235   1.250159     1.73   0.083    -.2830308
4.617501
       learn |  -.0173995   .4039873    -0.04   0.966       -.8092
.774401
      income |   .0303581   .1585919     0.19   0.848    -.2804764
.3411926
 avg_distance |   .3039271   .1399026     2.17   0.030      .029723
.5781313
  freq_use_ev |   .0151274   .1704129     0.09   0.929    -.3188756
.3491305
  club_kepco2 |  -.3057562   .4894718    -0.62   0.532    -1.265103
.653591
   club_jeju3 |  -1.356277   .8783945    -1.54   0.123    -3.077898
.365345
```

```
        ev_owner |   .7795892    .640207     1.22   0.223    -.4751935
2.034372
     saving_free |  -1.161025   .6513306    -1.78   0.075     -2.43761
.1155597
a_cons_short_dis |  -.1411553   .1680249    -0.84   0.401     -.470478
.1881674
           _cons |   1.104046   2.053533     0.54   0.591    -2.920806
5.128897
------------------------------------------------------------------------------
--
```

[21]:
```
* One concern series1. : a AS

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3␣
 ↪ev_owner saving_free a_cons_as
estimates store model2
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -101.37215
Iteration 2:   log likelihood = -100.60531
Iteration 3:   log likelihood =  -100.5888
Iteration 4:   log likelihood = -100.58874
Iteration 5:   log likelihood = -100.58874

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      39.00
                                                Prob > chi2       =     0.0018
Log likelihood = -100.58874                     Pseudo R2         =     0.1624

------------------------------------------------------------------------------
-
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
-
         age |   .2662433   .3047536     0.87   0.382    -.3310628
.8635493
      gender |   -.065283   .5183349    -0.13   0.900    -1.081201
.9506347
    marriage |  -.4820754   .4882324    -0.99   0.323    -1.438993
.4748425
    student1 |   .3615878   1.069187     0.34   0.735    -1.733981
2.457157
company_man2 |  -2.035798   1.311882    -1.55   0.121    -4.607039
```

```
.5354441
public_officer3 |  -.0850944   .7237774    -0.12   0.906    -1.503672
1.333483
    profession4 |  -.2633835    1.03614    -0.25   0.799    -2.294182
1.767414
    researcher5 |   2.243134   1.254721     1.79   0.074    -.2160736
4.702342
          learn |   .0008935   .4072194     0.00   0.998    -.7972418
.7990288
         income |    .037714   .1600784     0.24   0.814    -.2760339
.3514619
   avg_distance |   .3008049   .1385413     2.17   0.030     .0292689
.5723408
    freq_use_ev |   .0399151    .169913     0.23   0.814    -.2931083
.3729385
    club_kepco2 |  -.3729845   .4996408    -0.75   0.455    -1.352262
.6062934
     club_jeju3 |  -1.182718   .8939657    -1.32   0.186    -2.934859
.5694225
       ev_owner |   .7975408    .645375     1.24   0.217     -.467371
2.062453
    saving_free |  -1.196859   .6497054    -1.84   0.065    -2.470258
.0765406
      a_cons_as |  -.2383365   .1683464    -1.42   0.157    -.5682895
.0916164
          _cons |   1.425887   2.078001     0.69   0.493     -2.64692
5.498695
------------------------------------------------------------------------------
-
```

[22]:
```
* One concern series1. : a charging fee

logit y age gender marriage student1 company_man2 public_officer3 profession4
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3
 ↪ev_owner saving_free a_cons_charge_fee
estimates store model3
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -100.99319
Iteration 2:   log likelihood =  -100.2599
Iteration 3:   log likelihood = -100.24425
Iteration 4:   log likelihood = -100.24419
Iteration 5:   log likelihood = -100.24419

Logistic regression                             Number of obs     =        184
```

```
                                                LR chi2(17)       =      39.69
                                                Prob > chi2       =     0.0014
Log likelihood = -100.24419                     Pseudo R2         =     0.1653

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .2982889   .3031536     0.98   0.325    -.2958813    .8924591
      gender |   .0059393   .5170989     0.01   0.991    -1.007556    1.019434
    marriage |  -.3982194   .4896476    -0.81   0.416    -1.357911    .5614722
    student1 |   .5094608   1.074319     0.47   0.635    -1.596166    2.615087
 company_man2 |  -1.930638      1.326    -1.46   0.145    -4.529551    .6682748
public_officer3 |   .0364136   .7203661     0.05   0.960    -1.375478    1.448305
  profession4 |  -.0936705   1.020448    -0.09   0.927    -2.093712    1.906371
  researcher5 |   2.340176   1.260437     1.86   0.063     -.130234    4.810587
        learn |  -.0722941   .4063608    -0.18   0.859    -.8687467    .7241584
       income |   .0513213   .1604433     0.32   0.749    -.2631418    .3657844
 avg_distance |   .2304477   .1435685     1.61   0.108    -.0509413    .5118368
  freq_use_ev |   .0750722   .1722499     0.44   0.663    -.2625314    .4126758
  club_kepco2 |  -.3282674   .4903228    -0.67   0.503    -1.289282    .6327476
   club_jeju3 |  -1.344986   .8611556    -1.56   0.118     -3.03282    .3428481
     ev_owner |    .850658   .6487059     1.31   0.190    -.4207823    2.122098
  saving_free |  -1.275526   .6561369    -1.94   0.052    -2.561531    .0104785
a_cons_charge_fee |  -.2806707   .1719769    -1.63   0.103    -.6177393    .0563979
        _cons |   1.529611   2.083289     0.73   0.463    -2.553561    5.612783
------------------------------------------------------------------------------
```

[23]:
```
* One concern series1. : a charging facility lack

logit y age gender marriage student1 company_man2 public_officer3 profession4
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3
 ↪ev_owner saving_free a_cons_num_charge_lack
estimates store model4
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.16418
Iteration 2:   log likelihood = -101.42532
Iteration 3:   log likelihood = -101.40946
Iteration 4:   log likelihood =  -101.4094
Iteration 5:   log likelihood =  -101.4094

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.36
                                                Prob > chi2       =     0.0030
Log likelihood =  -101.4094                     Pseudo R2         =     0.1556

------------------------------------------------------------------------------
--------
                   y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
---------------------+--------------------------------------------------------
--------
                 age |   .2557972   .3014252     0.85   0.396    -.3349854
.8465798
              gender |   .0351259   .5185778     0.07   0.946    -.9812679
1.05152
            marriage |  -.4729796   .4847745    -0.98   0.329     -1.42312
.477161
            student1 |   .3973528   1.063872     0.37   0.709    -1.687799
2.482504
        company_man2 |  -2.011203   1.314944    -1.53   0.126    -4.588446
.5660396
      public_officer3 |   .0070544   .7170536     0.01   0.992    -1.398345
1.412454
         profession4 |  -.0694558   1.015084    -0.07   0.945    -2.058983
1.920071
         researcher5 |   2.210066   1.254856     1.76   0.078    -.2494071
4.66954
               learn |  -.0867721   .4030077    -0.22   0.830    -.8766526
.7031085
              income |   .0312414   .1579029     0.20   0.843    -.2782426
```

```
.3407254
          avg_distance |   .2876624   .1381508     2.08   0.037     .0168918
.5584331
           freq_use_ev |   .0245579   .1695217     0.14   0.885    -.3076986
.3568144
           club_kepco2 |  -.3117366   .4881995    -0.64   0.523     -1.26859
.645117
            club_jeju3 |  -1.459254   .8590388    -1.70   0.089    -3.142939
.2244306
              ev_owner |   .7547155     .64567     1.17   0.242    -.5107745
2.020206
           saving_free |   -1.13521   .6498372    -1.75   0.081    -2.408868
.1384471
a_cons_num_charge_lack |  -.1175813   .1854913    -0.63   0.526    -.4811375
.2459749
                 _cons |   1.333661   2.187946     0.61   0.542    -2.954634
5.621956
------------------------------------------------------------------------------
--------
```

[24]:
```
* One concern series1. : a charging time

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
 ↪ev_owner saving_free a_cons_long_charge_time
estimates store model5
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -101.76894
Iteration 2:   log likelihood =  -100.9994
Iteration 3:   log likelihood = -100.98378
Iteration 4:   log likelihood = -100.98372
Iteration 5:   log likelihood = -100.98372

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      38.21
                                                Prob > chi2       =     0.0023
Log likelihood = -100.98372                     Pseudo R2         =     0.1591

------------------------------------------------------------------------------
---------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
---------
```

```
                    age |   .3026436   .3031927     1.00   0.318    -.2916032
.8968903
                 gender |  -.0065264   .5169915    -0.01   0.990    -1.019811
1.006758
               marriage |  -.5139359    .487687    -1.05   0.292    -1.469785
.441913
               student1 |   .3170345   1.064278     0.30   0.766    -1.768911
2.40298
           company_man2 |    -2.0489    1.32568    -1.55   0.122    -4.647185
.5493852
        public_officer3 |  -.0528264   .7206077    -0.07   0.942    -1.465192
1.359539
            profession4 |  -.2079473   1.030083    -0.20   0.840    -2.226872
1.810977
            researcher5 |   2.055119   1.253286     1.64   0.101     -.401276
4.511513
                  learn |  -.0599452   .4030178    -0.15   0.882    -.8498455
.7299551
                 income |   .0392579   .1593043     0.25   0.805    -.2729728
.3514886
           avg_distance |   .2864764   .1391123     2.06   0.039     .0138213
.5591315
            freq_use_ev |   .0151614   .1702802     0.09   0.929    -.3185816
.3489044
            club_kepco2 |  -.3138672   .4933643    -0.64   0.525    -1.280844
.6531091
             club_jeju3 |  -1.332929   .8710264    -1.53   0.126    -3.040109
.3742516
               ev_owner |   .8547957   .6587985     1.30   0.194    -.4364256
2.146017
            saving_free |  -1.085098   .6497783    -1.67   0.095     -2.35864
.1884441
a_cons_long_charge_time |  -.2129548   .1926185    -1.11   0.269    -.5904802
.1645706
                  _cons |   1.557703   2.126762     0.73   0.464    -2.610674
5.726081
------------------------------------------------------------------------------
---------
```

[25]:
```
* One concern series1. : a concern on hill side

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free a_cons_hill_ride
estimates store model6
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.22261
Iteration 2:   log likelihood = -101.49875
Iteration 3:   log likelihood = -101.48306
Iteration 4:   log likelihood = -101.48301
Iteration 5:   log likelihood = -101.48301

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.21
                                                Prob > chi2       =     0.0031
Log likelihood = -101.48301                     Pseudo R2         =     0.1549

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |    .277949   .3010369     0.92   0.356    -.3120724   .8679704
      gender |  -.0063814   .5152963    -0.01   0.990    -1.016344   1.003581
    marriage |   -.460164    .485303    -0.95   0.343     -1.41134   .4910124
    student1 |   .3102345   1.072735     0.29   0.772    -1.792288   2.412757
company_man2 |  -2.152784   1.323405    -1.63   0.104    -4.746609   .4410416
public_officer3 |  -.0595862   .7173035    -0.08   0.934    -1.465475   1.346303
 profession4 |    -.07668   1.021788    -0.08   0.940    -2.079347   1.925987
 researcher5 |    2.11988   1.246592     1.70   0.089    -.3233942   4.563155
       learn |  -.0759357   .4034406    -0.19   0.851    -.8666648   .7147933
      income |   .0243712   .1583261     0.15   0.878    -.2859423   .3346847
avg_distance |    .269894   .1421987     1.90   0.058    -.0088104   .5485983
 freq_use_ev |   .0387733   .1690091     0.23   0.819    -.2924784   .370025
 club_kepco2 |  -.3399383   .4898558    -0.69   0.488    -1.300038   .6201614
  club_jeju3 |  -1.501003   .8586952    -1.75   0.080    -3.184015   .1820085
    ev_owner |   .7342183   .6435513     1.14   0.254     -.527119
```

```
1.995556
     saving_free |  -1.195601   .6502226    -1.84   0.066    -2.470014
.078812
a_cons_hill_ride |  -.0813312   .1587898    -0.51   0.609    -.3925535
.2298911
           _cons |    1.17424   2.158124     0.54   0.586    -3.055605
5.404085
------------------------------------------------------------------------------
--
```

[26]:
```
* One concern series1. : a concern on hvac

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free a_cons_hac
estimates store model7
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -98.854311
Iteration 2:   log likelihood = -98.019475
Iteration 3:   log likelihood = -98.003121
Iteration 4:   log likelihood = -98.003071
Iteration 5:   log likelihood = -98.003071

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      44.17
                                                Prob > chi2       =     0.0003
Log likelihood = -98.003071                     Pseudo R2         =     0.1839

------------------------------------------------------------------------------
-
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
-
         age |   .2936117   .3050118     0.96   0.336    -.3042004
.8914237
      gender |   .0624131   .5232952     0.12   0.905    -.9632267
1.088053
    marriage |  -.4979675   .4932641    -1.01   0.313    -1.464747
.4688124
    student1 |  -.1022286     1.1082    -0.09   0.927     -2.27426
2.069803
company_man2 |  -2.409298   1.384081    -1.74   0.082    -5.122046
.3034505
```

```
public_officer3 |  -.0733315   .7412948    -0.10   0.921    -1.526243
1.37958
    profession4 |  -.3963433   1.054605    -0.38   0.707     -2.46333
1.670644
    researcher5 |   2.114685   1.263534     1.67   0.094    -.3617958
4.591166
          learn |   .0249292   .4090062     0.06   0.951    -.7767082
.8265666
         income |   .0170092   .1624343     0.10   0.917    -.3013562
.3353746
   avg_distance |   .2787791   .1409119     1.98   0.048     .0025969
.5549614
    freq_use_ev |   .0557655   .1709891     0.33   0.744     -.279367
.390898
    club_kepco2 |  -.4960503   .5072543    -0.98   0.328    -1.490251
.4981499
     club_jeju3 |  -1.287947   .8793248    -1.46   0.143    -3.011392
.4354981
       ev_owner |   .6676909   .6511358     1.03   0.305    -.6085117
1.943894
    saving_free |  -1.455907   .6652331    -2.19   0.029     -2.75974
-.1520738
     a_cons_hac |  -.3958109    .152026    -2.60   0.009    -.6937763
-.0978455
          _cons |   2.151752   2.098018     1.03   0.305    -1.960288
6.263791
------------------------------------------------------------------------------
-
```

[27]:
```
* After Concern:
logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
 ↪ev_owner saving_free a_cons_short_dis a_cons_as a_cons_charge_fee␣
 ↪a_cons_num_charge_lack a_cons_long_charge_time a_cons_hill_ride a_cons_hac
 estimates store model8
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood =  -97.26324
Iteration 2:   log likelihood = -96.309043
Iteration 3:   log likelihood = -96.295424
Iteration 4:   log likelihood = -96.295387
Iteration 5:   log likelihood = -96.295387

Logistic regression                             Number of obs     =        184
                                                LR chi2(23)       =      47.59
```

```
                                                Prob > chi2       =     0.0019
Log likelihood = -96.295387                     Pseudo R2         =     0.1981

------------------------------------------------------------------------------
---------
                   y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
---------------------+--------------------------------------------------------
---------
                 age |    .340944   .3180583     1.07   0.284    -.2824388
.9643269
              gender |   .0115895   .5351584     0.02   0.983    -1.037302
1.060481
            marriage |  -.4731386   .4996831    -0.95   0.344    -1.452499
.5062223
            student1 |   .1166542   1.120729     0.10   0.917    -2.079933
2.313242
        company_man2 |  -2.112767   1.411894    -1.50   0.135    -4.880028
.6544936
      public_officer3 |  -.0025686   .7516279    -0.00   0.997    -1.475732
1.470595
         profession4 |   -.520584   1.069439    -0.49   0.626    -2.616645
1.575477
         researcher5 |   2.272473   1.291175     1.76   0.078    -.2581835
4.80313
               learn |   .1202316    .433195     0.28   0.781     -.728815
.9692782
              income |   .0560364   .1671956     0.34   0.738     -.271661
.3837337
        avg_distance |   .2824614   .1544296     1.83   0.067    -.0202151
.5851378
         freq_use_ev |   .0867176    .178098     0.49   0.626     -.262348
.4357833
         club_kepco2 |  -.4882705   .5157204    -0.95   0.344    -1.499064
.522523
          club_jeju3 |  -.9796557   .9396015    -1.04   0.297    -2.821241
.8619294
            ev_owner |   .8611399   .6671271     1.29   0.197    -.4464051
2.168685
         saving_free |  -1.482165    .687508    -2.16   0.031    -2.829655
-.1346737
    a_cons_short_dis |   .0198509   .1982233     0.10   0.920    -.3686596
.4083613
          a_cons_as |  -.1223494   .1858711    -0.66   0.510    -.4866501
.2419513
   a_cons_charge_fee |  -.2700268   .1906273    -1.42   0.157    -.6436495
.1035958
a_cons_num_charge_lack |   .0900837   .2353209     0.38   0.702    -.3711367
```

```
.5513041
a_cons_long_charge_time |   -.116316    .2351984    -0.49   0.621    -.5772963
.3446644
       a_cons_hill_ride |    .2417624    .1926053     1.26   0.209    -.1357371
.6192618
             a_cons_hac |  -.4172223    .1806337    -2.31   0.021    -.7712579
-.0631867
                  _cons |   2.038912    2.379605     0.86   0.392    -2.625028
6.702852
------------------------------------------------------------------------------
---------
```

[28]:
```
* Model1 total tabel: se and star cannot be together
 estimates table base model1 model2 model3 model4 model5 model6 model7 model8,␣
 ↪b(%9.3f) star(0.01, 0.05, 0.1) eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------
    Variable |     base          model1          model2          model3
model4          model5          model6          model7          model8
-------------+-----------------------------------------------------------------
-------------------------------------------------------------
         age |     0.274           0.267           0.266           0.298
0.256           0.303           0.278           0.294           0.341
      gender |    -0.002           0.034          -0.065           0.006
0.035          -0.007          -0.006           0.062           0.012
    marriage |    -0.459          -0.444          -0.482          -0.398
-0.473          -0.514          -0.460          -0.498          -0.473
    student1 |     0.345           0.294           0.362           0.509
0.397           0.317           0.310          -0.102           0.117
company_man2 |    -2.067          -2.108          -2.036          -1.931
-2.011          -2.049          -2.153          -2.409*         -2.113
public_off~3 |    -0.032          -0.005          -0.085           0.036
0.007          -0.053          -0.060          -0.073          -0.003
 profession4 |    -0.040          -0.079          -0.263          -0.094
-0.069          -0.208          -0.077          -0.396          -0.521
 researcher5 |     2.122*          2.167*          2.243*          2.340*
2.210*          2.055           2.120*          2.115*          2.272*
       learn |    -0.055          -0.017           0.001          -0.072
-0.087          -0.060          -0.076           0.025           0.120
      income |     0.028           0.030           0.038           0.051
0.031           0.039           0.024           0.017           0.056
avg_distance |     0.288**         0.304**         0.301**         0.230
0.288**         0.286**         0.270*          0.279**         0.282*
 freq_use_ev |     0.033           0.015           0.040           0.075
0.025           0.015           0.039           0.056           0.087
```

```
 club_kepco2 |    -0.321         -0.306         -0.373         -0.328
-0.312         -0.314         -0.340         -0.496         -0.488
  club_jeju3 |    -1.519*        -1.356         -1.183         -1.345
-1.459*        -1.333         -1.501*        -1.288         -0.980
    ev_owner |     0.738          0.780          0.798          0.851
0.755          0.855          0.734          0.668          0.861
 saving_free |    -1.165*        -1.161*        -1.197*        -1.276*
-1.135*        -1.085*        -1.196*        -1.456**       -1.482**
a_cons_sho~s |                   -0.141
0.020
   a_cons_as |                                  -0.238
-0.122
a_cons_cha~e |                                                  -0.281
-0.270
a_cons_num~k |
-0.118                                                          0.090
a_cons_lon~e |
-0.213                                         -0.116
a_cons_hil~e |
-0.081                          0.242
  a_cons_hac |
-0.396***      -0.417**
       _cons |     0.779          1.104          1.426          1.530
1.334          1.558          1.174          2.152          2.039
-------------+------------------------------------------------------------------
------------------------------------------------------------------------
          ll |  -101.614       -101.256       -100.589       -100.244
-101.409       -100.984       -101.483        -98.003        -96.295
------------------------------------------------------------------------------
------------------------------------------------------------------------
                                  legend: * p<.1; ** p<.05; *** p<.01
```

[29]:
```
estimates table base model1 model2 model3 model4 model5 model6 model7 model8,␣
↪b(%9.3f) se(%9.3f) eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
-----------------------------------------
    Variable |   base       model1      model2      model3      model4
model5      model6      model7      model8
-------------+-----------------------------------------------------------------
-----------------------------------------
         age |     0.274       0.267       0.266       0.298       0.256
0.303       0.278       0.294       0.341
             |     0.300       0.300       0.305       0.303       0.301
0.303       0.301       0.305       0.318
      gender |    -0.002       0.034      -0.065       0.006       0.035
-0.007      -0.006       0.062       0.012
```

```
             |     0.515       0.518       0.518       0.517       0.519
0.517       0.515       0.523       0.535
    marriage |    -0.459      -0.444      -0.482      -0.398      -0.473
-0.514      -0.460      -0.498      -0.473
             |     0.484       0.484       0.488       0.490       0.485
0.488       0.485       0.493       0.500
    student1 |     0.345       0.294       0.362       0.509       0.397
0.317       0.310      -0.102       0.117
             |     1.066       1.075       1.069       1.074       1.064
1.064       1.073       1.108       1.121
company_man2 |    -2.067      -2.108      -2.036      -1.931      -2.011
-2.049      -2.153      -2.409      -2.113
             |     1.312       1.329       1.312       1.326       1.315
1.326       1.323       1.384       1.412
public_off~3 |    -0.032      -0.005      -0.085       0.036       0.007
-0.053      -0.060      -0.073      -0.003
             |     0.714       0.717       0.724       0.720       0.717
0.721       0.717       0.741       0.752
 profession4 |    -0.040      -0.079      -0.263      -0.094      -0.069
-0.208      -0.077      -0.396      -0.521
             |     1.013       1.018       1.036       1.020       1.015
1.030       1.022       1.055       1.069
 researcher5 |     2.122       2.167       2.243       2.340       2.210
2.055       2.120       2.115       2.272
             |     1.247       1.250       1.255       1.260       1.255
1.253       1.247       1.264       1.291
       learn |    -0.055      -0.017       0.001      -0.072      -0.087
-0.060      -0.076       0.025       0.120
             |     0.401       0.404       0.407       0.406       0.403
0.403       0.403       0.409       0.433
      income |     0.028       0.030       0.038       0.051       0.031
0.039       0.024       0.017       0.056
             |     0.158       0.159       0.160       0.160       0.158
0.159       0.158       0.162       0.167
avg_distance |     0.288       0.304       0.301       0.230       0.288
0.286       0.270       0.279       0.282
             |     0.138       0.140       0.139       0.144       0.138
0.139       0.142       0.141       0.154
 freq_use_ev |     0.033       0.015       0.040       0.075       0.025
0.015       0.039       0.056       0.087
             |     0.168       0.170       0.170       0.172       0.170
0.170       0.169       0.171       0.178
 club_kepco2 |    -0.321      -0.306      -0.373      -0.328      -0.312
-0.314      -0.340      -0.496      -0.488
             |     0.488       0.489       0.500       0.490       0.488
0.493       0.490       0.507       0.516
  club_jeju3 |    -1.519      -1.356      -1.183      -1.345      -1.459
-1.333      -1.501      -1.288      -0.980
```

```
             |     0.855       0.878       0.894       0.861       0.859
0.871       0.859       0.879       0.940
    ev_owner |     0.738       0.780       0.798       0.851       0.755
0.855       0.734       0.668       0.861
             |     0.642       0.640       0.645       0.649       0.646
0.659       0.644       0.651       0.667
 saving_free |    -1.165      -1.161      -1.197      -1.276      -1.135
-1.085      -1.196      -1.456      -1.482
             |     0.649       0.651       0.650       0.656       0.650
0.650       0.650       0.665       0.688
a_cons_sho~s |                -0.141
0.020
             |                 0.168
0.198
   a_cons_as |                            -0.238
-0.122
             |                             0.168
0.186
a_cons_cha~e |                                        -0.281
-0.270
             |                                         0.172
0.191
a_cons_num~k |                                                    -0.118
0.090
             |                                                     0.185
0.235
a_cons_lon~e |
-0.213                            -0.116
             |
0.193                             0.235
a_cons_hil~e |
-0.081                   0.242
             |
0.159                    0.193
  a_cons_hac |
-0.396      -0.417
             |
0.152       0.181
       _cons |     0.779       1.104       1.426       1.530       1.334
1.558       1.174       2.152       2.039
             |     2.014       2.054       2.078       2.083       2.188
2.127       2.158       2.098       2.380
-------------+------------------------------------------------------------
----------------------------------------
          ll |  -101.614    -101.256    -100.589    -100.244    -101.409
-100.984    -101.483     -98.003     -96.295
------------------------------------------------------------------------------
----------------------------------------
```

```
legend: b/se
```

[30]:
```
* One concern series1. : b short distance

logit y age gender marriage student1 company_man2 public_officer3 profession4
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3
 ↪ev_owner saving_free b_cons_short_dis
estimates store model1b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -99.796949
Iteration 2:   log likelihood = -98.892396
Iteration 3:   log likelihood =   -98.8766
Iteration 4:   log likelihood = -98.876549
Iteration 5:   log likelihood = -98.876549

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      42.43
                                                Prob > chi2       =     0.0006
Log likelihood = -98.876549                     Pseudo R2         =     0.1766

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |    .218625    .303361     0.72   0.471    -.3759517   .8132017
      gender |   .0622405   .5267541     0.12   0.906    -.9701784   1.09466
    marriage |  -.4679636   .4900693    -0.95   0.340    -1.428482   .4925547
    student1 |   .2191285   1.085342     0.20   0.840    -1.908104   2.34636
company_man2 |  -2.284139   1.350393    -1.69   0.091     -4.93086   .3625818
public_officer3 |   -.00008   .7357184    -0.00   1.000    -1.442062   1.441902
 profession4 |  -.1441224   1.040683    -0.14   0.890    -2.183824   1.895579
 researcher5 |   2.203316   1.257651     1.75   0.080    -.2616358   4.668267
       learn |   .0781582   .4089419     0.19   0.848    -.7233533   .8796696
      income |   .0137644   .1586112     0.09   0.931    -.2971079
```

```
.3246366
    avg_distance |   .3323717   .1425779     2.33   0.020     .0529242
.6118192
     freq_use_ev |  -.0211512   .1735306    -0.12   0.903    -.3612649
.3189625
     club_kepco2 |   -.277095   .4985478    -0.56   0.578    -1.254231
.7000407
      club_jeju3 |   -1.11258   .8818105    -1.26   0.207    -2.840897
.6157366
        ev_owner |    .783331   .6529594     1.20   0.230    -.4964459
2.063108
     saving_free |  -.9567904   .6745448    -1.42   0.156    -2.278874
.3652931
b_cons_short_dis |  -.4700111    .211109    -2.23   0.026    -.8837771
-.056245
           _cons |   2.085038   2.155535     0.97   0.333    -2.139734
6.30981
------------------------------------------------------------------------------
--
```

[31]:
```
* One concern series1. : b AS

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free b_cons_as
estimates store model2b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -100.53691
Iteration 2:   log likelihood = -99.586965
Iteration 3:   log likelihood = -99.564932
Iteration 4:   log likelihood = -99.564882
Iteration 5:   log likelihood = -99.564882

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      41.05
                                                Prob > chi2       =     0.0009
Log likelihood = -99.564882                     Pseudo R2         =     0.1709

------------------------------------------------------------------------------
-
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
-
```

```
            age |   .2453737   .3048074     0.81   0.421    -.3520377
.8427851
         gender |  -.0469756   .5206701    -0.09   0.928     -1.06747
.973519
       marriage |   -.501071   .4891287    -1.02   0.306    -1.459746
.4576037
       student1 |   .5097782   1.076408     0.47   0.636    -1.599942
2.619498
   company_man2 |    -1.9948    1.32603    -1.50   0.132    -4.593771
.604172
public_officer3 |  -.0110845   .7292211    -0.02   0.988    -1.440332
1.418163
    profession4 |  -.1958003   1.025227    -0.19   0.849    -2.205208
1.813608
    researcher5 |   2.298157   1.273582     1.80   0.071    -.1980181
4.794331
          learn |   .0436128   .4095321     0.11   0.915    -.7590553
.846281
         income |   .0653463   .1607546     0.41   0.684    -.2497268
.3804194
   avg_distance |   .3148022   .1395586     2.26   0.024     .0412724
.5883321
    freq_use_ev |  -.0024172   .1718499    -0.01   0.989    -.3392369
.3344025
    club_kepco2 |  -.3907009   .4993225    -0.78   0.434    -1.369355
.5879533
     club_jeju3 |  -1.209133   .8702448    -1.39   0.165    -2.914781
.4965157
       ev_owner |   .7300992   .6503793     1.12   0.262    -.5446208
2.004819
    saving_free |   -1.14609   .6536155    -1.75   0.080    -2.427153
.1349724
      b_cons_as |  -.3718768   .1885006    -1.97   0.049    -.7413312
-.0024223
          _cons |   1.821413   2.085522     0.87   0.382    -2.266136
5.908962
------------------------------------------------------------------------------
-
```

[32]:
```
* One concern series1. : b charging fee

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
 ↪ev_owner saving_free b_cons_charge_fee
estimates store model3b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -101.92405
Iteration 2:   log likelihood = -101.20213
Iteration 3:   log likelihood =  -101.1872
Iteration 4:   log likelihood = -101.18714
Iteration 5:   log likelihood = -101.18714

Logistic regression                               Number of obs     =        184
                                                  LR chi2(17)       =      37.81
                                                  Prob > chi2       =     0.0026
Log likelihood = -101.18714                       Pseudo R2         =     0.1574

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .2600036   .3007311     0.86   0.387    -.3294185    .8494258
      gender |  -.0235503   .5142927    -0.05   0.963    -1.031545    .9844449
    marriage |  -.4076641   .4899139    -0.83   0.405    -1.367878    .5525494
    student1 |    .324157   1.067848     0.30   0.761    -1.768786      2.4171
 company_man2 |  -2.238329   1.338489    -1.67   0.094    -4.861719    .3850608
public_officer3 |  -.0974601   .7202944    -0.14   0.892    -1.509211    1.314291
  profession4 |  -.1038369   1.019145    -0.10   0.919    -2.101325    1.893651
  researcher5 |   2.099828   1.247984     1.68   0.092    -.3461768    4.545832
        learn |   -.067327   .4030072    -0.17   0.867    -.8572065    .7225525
       income |   .0312795   .1581153     0.20   0.843    -.2786207    .3411797
 avg_distance |   .2796953   .1379437     2.03   0.043     .0093306     .55006
  freq_use_ev |   .0194343   .1691061     0.11   0.909    -.3120075    .3508761
  club_kepco2 |   -.348007   .4896598    -0.71   0.477    -1.307723    .6117086
   club_jeju3 |  -1.444222    .858116    -1.68   0.092    -3.126099    .2376543
     ev_owner |   .7425656   .6424572     1.16   0.248    -.5166275
```

```
2.001759
      saving_free |  -1.207784   .6497621    -1.86   0.063    -2.481295
.0657259
b_cons_charge_fee |  -.1556943   .1695044    -0.92   0.358     -.487917
.1765283
            _cons |   1.494348   2.172748     0.69   0.492    -2.764159
5.752856
------------------------------------------------------------------------------
---
```

[33]:
```
* One concern series1. : b charging facility lack

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free b_cons_num_charge_lack
estimates store model4b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.23653
Iteration 2:   log likelihood = -101.50111
Iteration 3:   log likelihood = -101.48539
Iteration 4:   log likelihood = -101.48533
Iteration 5:   log likelihood = -101.48533

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.21
                                                Prob > chi2       =     0.0032
Log likelihood = -101.48533                     Pseudo R2         =     0.1549

------------------------------------------------------------------------------
--------
                   y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
---------------------+--------------------------------------------------------
--------
                 age |   .2752197   .3010241     0.91   0.361    -.3147766
.8652161
              gender |  -.0286951   .5183838    -0.06   0.956    -1.044709
.9873185
            marriage |  -.4799121   .4863378    -0.99   0.324    -1.433117
.4732924
            student1 |   .3355041   1.065101     0.31   0.753    -1.752055
2.423063
        company_man2 |  -2.042688   1.310695    -1.56   0.119    -4.611604
.5262272
```

```
       public_officer3 |  -.0277882    .716082    -0.04   0.969    -1.431283
1.375707
          profession4 |  -.0629207   1.017916    -0.06   0.951    -2.057999
1.932157
          researcher5 |   2.109198   1.246317     1.69   0.091    -.3335384
4.551934
                learn |  -.0351833   .4015818    -0.09   0.930    -.8222692
.7519025
               income |   .0259005   .1579065     0.16   0.870    -.2835906
.3353917
         avg_distance |   .2930922   .1385047     2.12   0.034      .021628
.5645564
          freq_use_ev |   .0255988   .1695696     0.15   0.880    -.3067515
.3579492
          club_kepco2 |   -.329569   .4886486    -0.67   0.500    -1.287303
.6281646
           club_jeju3 |   -1.53646   .8583389    -1.79   0.073    -3.218774
.1458529
             ev_owner |   .7332925   .6489218     1.13   0.258    -.5385708
2.005156
          saving_free |  -1.146868   .6484386    -1.77   0.077    -2.417784
.124048
b_cons_num_charge_lack |  -.1094765   .2172529    -0.50   0.614    -.5352844
.3163314
                _cons |   1.227319   2.200801     0.56   0.577    -3.086172
5.540811
------------------------------------------------------------------------------
--------
```

[34]:
```
* One concern series1. : b charging time

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free b_cons_long_charge_time
estimates store model5b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -100.57438
Iteration 2:   log likelihood = -99.532376
Iteration 3:   log likelihood = -99.514467
Iteration 4:   log likelihood = -99.514412
Iteration 5:   log likelihood = -99.514412

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      41.15
```

```
                                                Prob > chi2       =     0.0009
Log likelihood = -99.514412                     Pseudo R2         =     0.1713

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .2447033   .3059363     0.80   0.424    -.3549208    .8443273
      gender |  -.0225428    .522933    -0.04   0.966    -1.047473    1.002387
    marriage |  -.5534917   .4946596    -1.12   0.263    -1.523007    .4160233
    student1 |   .3565582   1.074111     0.33   0.740    -1.748661    2.461778
  company_man2 |  -1.994135   1.314315    -1.52   0.129    -4.570146    .5818747
public_officer3 |  -.0050904   .7343915    -0.01   0.994    -1.444471    1.434291
   profession4 |  -.1782785   1.033245    -0.17   0.863    -2.203402    1.846845
   researcher5 |    2.18135   1.265232     1.72   0.085    -.2984593    4.661158
         learn |   .0342798   .4062044     0.08   0.933    -.7618663    .8304258
        income |   .0386228   .1594198     0.24   0.809    -.2738343    .3510798
  avg_distance |   .3145533   .1417995     2.22   0.027     .0366314    .5924752
   freq_use_ev |   .0077114   .1725258     0.04   0.964     -.330433    .3458558
   club_kepco2 |   -.420976   .5021007    -0.84   0.402    -1.405075    .5631233
    club_jeju3 |  -1.386832   .8648532    -1.60   0.109    -3.081913    .3082491
      ev_owner |   .8788082   .6602557     1.33   0.183    -.4152692    2.172886
   saving_free |  -1.076185   .6578455    -1.64   0.102    -2.365538    .2131689
b_cons_long_charge_time |  -.4609431   .2336006    -1.97   0.048     -.918792   -.0030943
         _cons |   2.456363   2.212751     1.11   0.267    -1.880549    6.793275
------------------------------------------------------------------------------
```

[35]:
```
* One concern series1. : b concern on hill side

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free b_cons_hill_ride
estimates store model6b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -101.91675
Iteration 2:   log likelihood = -101.15547
Iteration 3:   log likelihood = -101.13898
Iteration 4:   log likelihood = -101.13892
Iteration 5:   log likelihood = -101.13892

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.90
                                                Prob > chi2       =     0.0025
Log likelihood = -101.13892                     Pseudo R2         =     0.1578

------------------------------------------------------------------------------
--
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
--
         age |   .2389226   .3047536     0.78   0.433    -.3583835
.8362287
      gender |  -.0019761   .5169982    -0.00   0.997    -1.015274
1.011322
    marriage |  -.4798643   .4887609    -0.98   0.326    -1.437818
.4780895
    student1 |   .3000294   1.077559     0.28   0.781    -1.811948
2.412007
company_man2 |  -2.224047   1.321269    -1.68   0.092    -4.813688
.3655932
 public_officer3 |  -.0895823   .7213535    -0.12   0.901    -1.503409
1.324245
 profession4 |   -.048444   1.022699    -0.05   0.962    -2.052896
1.956008
 researcher5 |   2.056194    1.25249     1.64   0.101    -.3986414
4.511029
       learn |  -.0723619   .4017388    -0.18   0.857    -.8597554
.7150316
      income |   .0325077   .1572675     0.21   0.836    -.2757309
.3407462
```

```
    avg_distance |   .2693892   .1391337     1.94   0.053    -.0033078
.5420863
     freq_use_ev |    .036845   .1693778     0.22   0.828    -.2951294
.3688195
     club_kepco2 |  -.3734523   .4915743    -0.76   0.447     -1.33692
.5900156
      club_jeju3 |  -1.549975   .8621297    -1.80   0.072    -3.239718
.1397686
        ev_owner |   .7323872   .6420379     1.14   0.254     -.525984
1.990758
     saving_free |  -1.186061   .6491558    -1.83   0.068    -2.458383
.0862612
b_cons_hill_ride |  -.1473965   .1519258    -0.97   0.332    -.4451655
.1503725
           _cons |   1.548354    2.17542     0.71   0.477     -2.71539
5.812098
------------------------------------------------------------------------------
--
```

[36]:
```
* One concern series1. : b concern on hvac

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free b_cons_hac
estimates store model7b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -101.13658
Iteration 2:   log likelihood =  -100.3066
Iteration 3:   log likelihood = -100.28844
Iteration 4:   log likelihood = -100.28838
Iteration 5:   log likelihood = -100.28838

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      39.60
                                                Prob > chi2       =     0.0015
Log likelihood = -100.28838                     Pseudo R2         =     0.1649

------------------------------------------------------------------------------
-
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
-
         age |   .2713536   .3001148     0.90   0.366    -.3168606
```

```
.8595678
         gender |  -.0179794   .5180803    -0.03   0.972    -1.033398
.9974393
       marriage |  -.5457615   .4934456    -1.11   0.269    -1.512897
.4213741
       student1 |   .0272473   1.096384     0.02   0.980    -2.121626
2.176121
   company_man2 |  -2.111383   1.319912    -1.60   0.110    -4.698363
.4755979
public_officer3 |  -.1114137   .7262745    -0.15   0.878    -1.534885
1.312058
    profession4 |  -.3504157   1.039063    -0.34   0.736    -2.386941
1.68611
    researcher5 |    1.95456   1.258908     1.55   0.121    -.5128555
4.421975
          learn |  -.0064222   .4031528    -0.02   0.987    -.7965871
.7837427
         income |   .0181735   .1601568     0.11   0.910    -.2957281
.3320751
   avg_distance |   .2879255   .1390113     2.07   0.038     .0154684
.5603827
    freq_use_ev |   .0367004   .1700986     0.22   0.829    -.2966867
.3700874
    club_kepco2 |  -.3724043   .4915937    -0.76   0.449     -1.33591
.5911017
     club_jeju3 |  -1.396161   .8640642    -1.62   0.106    -3.089696
.2973739
       ev_owner |   .6798735   .6434679     1.06   0.291    -.5813004
1.941047
    saving_free |  -1.180414   .6469265    -1.82   0.068    -2.448367
.0875384
     b_cons_hac |   -.260389   .1624495    -1.60   0.109    -.5787841
.0580061
          _cons |   1.771712   2.106546     0.84   0.400    -2.357043
5.900466
------------------------------------------------------------------------------
-
```

[37]:
```
* Total Before Model

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
 ↪ev_owner saving_free b_cons_short_dis b_cons_as b_cons_charge_fee␣
 ↪b_cons_num_charge_lack b_cons_long_charge_time b_cons_hac b_cons_hill_ride
estimates store model8b
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -97.577459
Iteration 2:   log likelihood = -96.404875
Iteration 3:   log likelihood = -96.385049
Iteration 4:   log likelihood = -96.384988
Iteration 5:   log likelihood = -96.384988

Logistic regression                             Number of obs     =        184
                                                LR chi2(23)       =      47.41
                                                Prob > chi2       =     0.0020
Log likelihood = -96.384988                     Pseudo R2         =     0.1974

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .2026883   .3077751     0.66   0.510    -.4005398    .8059164
      gender |  -.0008958   .5372153    -0.00   0.999    -1.053818    1.052027
    marriage |  -.4896003   .5126346    -0.96   0.340    -1.494346    .5151452
    student1 |    .116532   1.126398     0.10   0.918    -2.091167    2.324231
 company_man2 |  -2.393867   1.406472    -1.70   0.089    -5.150501    .3627674
public_officer3 |  -.1167694   .7634492    -0.15   0.878    -1.613102    1.379563
  profession4 |  -.5616008   1.079223    -0.52   0.603     -2.67684    1.553638
  researcher5 |   2.235938    1.29907     1.72   0.085    -.3101922    4.782068
        learn |   .1462894   .4294046     0.34   0.733    -.6953281    .9879069
       income |   .0440136   .1649038     0.27   0.790    -.2791919     .367219
 avg_distance |   .3448247   .1466705     2.35   0.019     .0573557    .6322937
  freq_use_ev |  -.0477006   .1786309    -0.27   0.789    -.3978108    .3024097
  club_kepco2 |  -.4278665   .5194242    -0.82   0.410    -1.445919    .5901861
   club_jeju3 |   -.736143   .9107275    -0.81   0.419    -2.521136     1.04885
     ev_owner |   .8351093   .6659908     1.25   0.210    -.4702086
```

```
2.140427
            saving_free |  -1.003027   .6715192    -1.49   0.135     -2.31918
.3131269
       b_cons_short_dis |  -.3170699   .2384889    -1.33   0.184    -.7844996
.1503598
             b_cons_as |  -.2270959   .2006697    -1.13   0.258    -.6204014
.1662095
      b_cons_charge_fee |  -.1920307   .1878082    -1.02   0.307     -.560128
.1760666
 b_cons_num_charge_lack |   .1897604   .2600026     0.73   0.465    -.3198352
.6993561
b_cons_long_charge_time |  -.2925494   .2865051    -1.02   0.307    -.8540891
.2689904
             b_cons_hac |  -.1781143   .2041452    -0.87   0.383    -.5782316
.222003
       b_cons_hill_ride |   .0865883   .1914417     0.45   0.651    -.2886305
.461807
                  _cons |    3.68851   2.496601     1.48   0.140    -1.204738
8.581759
------------------------------------------------------------------------------
---------
```

[38]:
```
* Model1 total before table: se and star cannot be together

estimates table base model1b model2b model3b model4b model5b model6b model7b␣
↪model8b, b(%9.3f) star(0.01, 0.05, 0.1) eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------
    Variable |     base         model1b        model2b        model3b
model4b        model5b        model6b        model7b        model8b
-------------+-----------------------------------------------------------------
-------------------------------------------------------------
         age |     0.274          0.219          0.245          0.260
0.275          0.245          0.239          0.271          0.203
      gender |    -0.002          0.062         -0.047         -0.024
-0.029         -0.023         -0.002         -0.018         -0.001
    marriage |    -0.459         -0.468         -0.501         -0.408
-0.480         -0.553         -0.480         -0.546         -0.490
    student1 |     0.345          0.219          0.510          0.324
0.336          0.357          0.300          0.027          0.117
company_man2 |    -2.067         -2.284*        -1.995         -2.238*
-2.043         -1.994         -2.224*        -2.111         -2.394*
public_off~3 |    -0.032         -0.000         -0.011         -0.097
-0.028         -0.005         -0.090         -0.111         -0.117
 profession4 |    -0.040         -0.144         -0.196         -0.104
```

```
-0.063          -0.178          -0.048          -0.350          -0.562
 researcher5 |     2.122*          2.203*          2.298*          2.100*
2.109*          2.181*          2.056           1.955           2.236*
       learn |    -0.055           0.078           0.044          -0.067
-0.035           0.034          -0.072          -0.006           0.146
      income |     0.028           0.014           0.065           0.031
0.026           0.039           0.033           0.018           0.044
avg_distance |     0.288**        0.332**         0.315**         0.280**
0.293**         0.315**         0.269*          0.288**         0.345**
 freq_use_ev |     0.033          -0.021          -0.002           0.019
0.026           0.008           0.037           0.037          -0.048
 club_kepco2 |    -0.321          -0.277          -0.391          -0.348
-0.330          -0.421          -0.373          -0.372          -0.428
  club_jeju3 |    -1.519*         -1.113          -1.209          -1.444*
-1.536*         -1.387          -1.550*         -1.396          -0.736
    ev_owner |     0.738           0.783           0.730           0.743
0.733           0.879           0.732           0.680           0.835
 saving_free |    -1.165*         -0.957          -1.146*         -1.208*
-1.147*         -1.076          -1.186*         -1.180*         -1.003
b_cons_sho~s |                    -0.470**
-0.317
   b_cons_as |                                    -0.372**
-0.227
b_cons_cha~e |                                                     -0.156
-0.192
b_cons_num~k |
-0.109                                                           0.190
b_cons_lon~e |
-0.461**                                         -0.293
b_cons_hil~e |
-0.147                           0.087
  b_cons_hac |
-0.260          -0.178
       _cons |     0.779           2.085           1.821           1.494
1.227           2.456           1.548           1.772           3.689
-------------+------------------------------------------------------------------
-----------------------------------------------------------------
          ll |  -101.614        -98.877         -99.565        -101.187
-101.485        -99.514        -101.139        -100.288         -96.385
-------------------------------------------------------------------------------
-----------------------------------------------------------------
                                  legend: * p<.1; ** p<.05; *** p<.01
```

[39]:
```
estimates table base model1b model2b model3b model4b model5b model6b model7b␣
↪model8b, b(%9.3f) se(%9.3f) eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
```

```
-----------------------------------------
    Variable |   base       model1b     model2b     model3b     model4b
model5b     model6b     model7b     model8b
-------------+---------------------------------------------------------------
-----------------------------------------
         age |     0.274       0.219       0.245       0.260       0.275
0.245       0.239       0.271       0.203
             |     0.300       0.303       0.305       0.301       0.301
0.306       0.305       0.300       0.308
      gender |    -0.002       0.062      -0.047      -0.024      -0.029
-0.023      -0.002      -0.018      -0.001
             |     0.515       0.527       0.521       0.514       0.518
0.523       0.517       0.518       0.537
    marriage |    -0.459      -0.468      -0.501      -0.408      -0.480
-0.553      -0.480      -0.546      -0.490
             |     0.484       0.490       0.489       0.490       0.486
0.495       0.489       0.493       0.513
    student1 |     0.345       0.219       0.510       0.324       0.336
0.357       0.300       0.027       0.117
             |     1.066       1.085       1.076       1.068       1.065
1.074       1.078       1.096       1.126
company_man2 |    -2.067      -2.284      -1.995      -2.238      -2.043
-1.994      -2.224      -2.111      -2.394
             |     1.312       1.350       1.326       1.338       1.311
1.314       1.321       1.320       1.406
public_off~3 |    -0.032      -0.000      -0.011      -0.097      -0.028
-0.005      -0.090      -0.111      -0.117
             |     0.714       0.736       0.729       0.720       0.716
0.734       0.721       0.726       0.763
 profession4 |    -0.040      -0.144      -0.196      -0.104      -0.063
-0.178      -0.048      -0.350      -0.562
             |     1.013       1.041       1.025       1.019       1.018
1.033       1.023       1.039       1.079
 researcher5 |     2.122       2.203       2.298       2.100       2.109
2.181       2.056       1.955       2.236
             |     1.247       1.258       1.274       1.248       1.246
1.265       1.252       1.259       1.299
       learn |    -0.055       0.078       0.044      -0.067      -0.035
0.034      -0.072      -0.006       0.146
             |     0.401       0.409       0.410       0.403       0.402
0.406       0.402       0.403       0.429
      income |     0.028       0.014       0.065       0.031       0.026
0.039       0.033       0.018       0.044
             |     0.158       0.159       0.161       0.158       0.158
0.159       0.157       0.160       0.165
avg_distance |     0.288       0.332       0.315       0.280       0.293
0.315       0.269       0.288       0.345
             |     0.138       0.143       0.140       0.138       0.139
```

```
0.142       0.139       0.139       0.147
 freq_use_ev |     0.033      -0.021      -0.002       0.019       0.026
0.008       0.037       0.037      -0.048
             |     0.168       0.174       0.172       0.169       0.170
0.173       0.169       0.170       0.179
 club_kepco2 |    -0.321      -0.277      -0.391      -0.348      -0.330
-0.421      -0.373      -0.372      -0.428
             |     0.488       0.499       0.499       0.490       0.489
0.502       0.492       0.492       0.519
  club_jeju3 |    -1.519      -1.113      -1.209      -1.444      -1.536
-1.387      -1.550      -1.396      -0.736
             |     0.855       0.882       0.870       0.858       0.858
0.865       0.862       0.864       0.911
    ev_owner |     0.738       0.783       0.730       0.743       0.733
0.879       0.732       0.680       0.835
             |     0.642       0.653       0.650       0.642       0.649
0.660       0.642       0.643       0.666
 saving_free |    -1.165      -0.957      -1.146      -1.208      -1.147
-1.076      -1.186      -1.180      -1.003
             |     0.649       0.675       0.654       0.650       0.648
0.658       0.649       0.647       0.672
b_cons_sho~s |                -0.470
-0.317
             |                 0.211
0.238
   b_cons_as |                            -0.372
-0.227
             |                             0.189
0.201
b_cons_cha~e |                                        -0.156
-0.192
             |                                         0.170
0.188
b_cons_num~k |                                                    -0.109
0.190
             |                                                     0.217
0.260
b_cons_lon~e |
-0.461                            -0.293
             |
0.234                             0.287
b_cons_hil~e |
-0.147                   0.087
             |
0.152                    0.191
  b_cons_hac |
-0.260      -0.178
             |
```

```
0.162       0.204
       _cons |     0.779       2.085       1.821       1.494       1.227
2.456       1.548       1.772       3.689
             |     2.014       2.156       2.086       2.173       2.201
2.213       2.175       2.107       2.497
-------------+------------------------------------------------------------------
----------------------------------------
          ll |  -101.614     -98.877     -99.565    -101.187    -101.485
-99.514    -101.139    -100.288     -96.385
------------------------------------------------------------------------------
----------------------------------------
                              legend: b/se
```

[40]:
```
* One concern series1. : g short distance

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free g_cons_short_dis
estimates store model1g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -101.74403
Iteration 2:   log likelihood = -100.97846
Iteration 3:   log likelihood = -100.96199
Iteration 4:   log likelihood = -100.96193
Iteration 5:   log likelihood = -100.96193

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      38.26
                                                Prob > chi2       =     0.0023
Log likelihood = -100.96193                     Pseudo R2         =     0.1593

------------------------------------------------------------------------------
--
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
--
         age |   .2681188   .3025017     0.89   0.375    -.3247736
.8610113
      gender |  -.0217995   .5178823    -0.04   0.966     -1.03683
.9932311
    marriage |  -.4738028   .4868222    -0.97   0.330    -1.427957
.4803512
    student1 |   .3610081   1.066003     0.34   0.735    -1.728319
2.450335
```

```
    company_man2 |   -2.09454   1.309432    -1.60   0.110     -4.66098
.4718996
 public_officer3 |  -.0466421   .7203947    -0.06   0.948     -1.45859
1.365306
     profession4 |  -.0247994   1.018286    -0.02   0.981    -2.020604
1.971005
     researcher5 |   2.107157    1.24914     1.69   0.092     -.341112
4.555426
           learn |  -.0505369   .4010091    -0.13   0.900    -.8365002
.7354265
          income |   .0186252    .157433     0.12   0.906    -.2899378
.3271881
    avg_distance |   .2853998   .1385851     2.06   0.039      .013778
.5570216
     freq_use_ev |   .0371724   .1689415     0.22   0.826    -.2939468
.3682917
     club_kepco2 |  -.3215711   .4907916    -0.66   0.512    -1.283505
.6403627
      club_jeju3 |   -1.57283   .8562581    -1.84   0.066    -3.251065
.1054046
        ev_owner |   .6991092   .6526008     1.07   0.284    -.5799648
1.978183
     saving_free |  -1.080103   .6564622    -1.65   0.100    -2.366745
.2065396
g_cons_short_dis |   .1862959   .1641718     1.13   0.256    -.1354749
.5080667
           _cons |   .8208407   2.026567     0.41   0.685    -3.151158
4.79284
------------------------------------------------------------------------------
--
```

[41]:
```
* One concern series1. : g AS

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
 ↪ev_owner saving_free g_cons_as
estimates store model2g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.30211
Iteration 2:   log likelihood = -101.54333
Iteration 3:   log likelihood = -101.52655
Iteration 4:   log likelihood = -101.52649
Iteration 5:   log likelihood = -101.52649
```

```
Logistic regression                               Number of obs     =        184
                                                  LR chi2(17)       =      37.13
                                                  Prob > chi2       =     0.0032
Log likelihood = -101.52649                       Pseudo R2         =     0.1546

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .2701295   .3001065     0.90   0.368    -.3180685    .8583275
      gender |   .0090316    .515626     0.02   0.986    -1.001577    1.01964
    marriage |  -.4618134   .4838474    -0.95   0.340    -1.410137     .48651
    student1 |   .3680995    1.06842     0.34   0.730    -1.725965    2.462164
company_man2 |  -2.065365    1.31456    -1.57   0.116    -4.641855    .5111247
public_officer3 |  -.0129571   .7162161    -0.02   0.986    -1.416715    1.390801
 profession4 |  -.0046193   1.015895    -0.00   0.996    -1.995737    1.986498
 researcher5 |   2.108895   1.249208     1.69   0.091    -.3395079    4.557297
       learn |  -.0523935   .4004397    -0.13   0.896    -.8372408    .7324539
      income |   .0317722   .1580661     0.20   0.841    -.2780317    .3415761
avg_distance |   .2897965   .1382741     2.10   0.036     .0187842    .5608087
 freq_use_ev |   .0247531    .169689     0.15   0.884    -.3078313    .3573375
 club_kepco2 |  -.3186643   .4876503    -0.65   0.513    -1.274441    .6371126
  club_jeju3 |  -1.557273   .8583333    -1.81   0.070    -3.239576    .1250293
    ev_owner |   .7158361   .6439665     1.11   0.266    -.5463151    1.977987
 saving_free |  -1.150269   .6497761    -1.77   0.077    -2.423806    .1232693
   g_cons_as |   .0682917    .163096     0.42   0.675    -.2513705    .3879539
       _cons |   .7849213   2.010567     0.39   0.696    -3.155717    4.725559
------------------------------------------------------------------------------
```

-

[42]:
```
* One concern series1. : g charging fee

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free g_cons_charge_fee
estimates store model3g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.09815
Iteration 2:   log likelihood = -101.33524
Iteration 3:   log likelihood = -101.31784
Iteration 4:   log likelihood = -101.31778
Iteration 5:   log likelihood = -101.31778

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.54
                                                Prob > chi2       =     0.0028
Log likelihood = -101.31778                     Pseudo R2         =     0.1563

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .2987924   .3033177     0.99   0.325    -.2956994    .8932843
      gender |   .0218543   .5181086     0.04   0.966    -.9936199    1.037328
    marriage |  -.4733707   .4835158    -0.98   0.328    -1.421044     .474303
    student1 |   .4447153   1.074109     0.41   0.679    -1.660499    2.549929
 company_man2 |  -1.850384    1.33782    -1.38   0.167    -4.472464    .7716948
public_officer3 |   .0607803   .7248284     0.08   0.933    -1.359857    1.481418
  profession4 |  -.0064993   1.015287    -0.01   0.995    -1.996425    1.983426
  researcher5 |   2.249506   1.260562     1.78   0.074    -.2211506    4.720163
        learn |  -.0481221   .4013345    -0.12   0.905    -.8347232     .738479
```

```
          income |   .0352169   .1589441     0.22   0.825    -.2763078
.3467416
     avg_distance |   .2691386   .1408064     1.91   0.056    -.0068369
.5451141
      freq_use_ev |   .0638139   .1733543     0.37   0.713    -.2759543
.4035821
      club_kepco2 |  -.3037455   .4892985    -0.62   0.535    -1.262753
.655262
       club_jeju3 |  -1.498273   .8554625    -1.75   0.080    -3.174949
.1784026
         ev_owner |   .7882394   .6459236     1.22   0.222    -.4777476
2.054226
      saving_free |  -1.182423   .6524786    -1.81   0.070    -2.461257
.0964116
g_cons_charge_fee |  -.1368022   .1782554    -0.77   0.443    -.4861764
.212572
            _cons |   .5062823   2.040052     0.25   0.804    -3.492146
4.504711
------------------------------------------------------------------------------
---
```

[43]:
```
* One concern series1. : g charging facility lack

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free g_cons_num_charge_lack
estimates store model4g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.35129
Iteration 2:   log likelihood = -101.60688
Iteration 3:   log likelihood = -101.59045
Iteration 4:   log likelihood = -101.59039
Iteration 5:   log likelihood = -101.59039

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.00
                                                Prob > chi2       =     0.0034
Log likelihood = -101.59039                     Pseudo R2         =     0.1540

------------------------------------------------------------------------------
--------
                   y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
---------------------+--------------------------------------------------------
```

```
--------
                   age |   .2673953   .3016901     0.89   0.375    -.3239065
.8586971
                gender |   .0220581   .5263184     0.04   0.967    -1.009507
1.053623
              marriage |    -.45608   .4840101    -0.94   0.346    -1.404722
.4925624
              student1 |   .3671324   1.069207     0.34   0.731    -1.728475
2.46274
          company_man2 |  -2.056771   1.313674    -1.57   0.117    -4.631525
.517984
       public_officer3 |  -.0193086   .7152101    -0.03   0.978    -1.421095
1.382477
           profession4 |  -.0418836   1.012069    -0.04   0.967    -2.025501
1.941734
           researcher5 |   2.158995   1.258863     1.72   0.086    -.3083311
4.626321
                 learn |  -.0740531   .4101662    -0.18   0.857     -.877964
.7298578
                income |   .0294718   .1581341     0.19   0.852    -.2804654
.339409
          avg_distance |   .2861345   .1383284     2.07   0.039     .0150158
.5572532
           freq_use_ev |   .0331393   .1683979     0.20   0.844    -.2969146
.3631931
           club_kepco2 |  -.3143021   .4889889    -0.64   0.520    -1.272703
.6440985
            club_jeju3 |  -1.490677   .8639132    -1.73   0.084    -3.183916
.2025616
              ev_owner |   .7462463   .6413174     1.16   0.245    -.5107128
2.003205
           saving_free |  -1.161853   .6497108    -1.79   0.074    -2.435263
.1115566
g_cons_num_charge_lack |  -.0416686   .1908833    -0.22   0.827     -.415793
.3324557
                 _cons |   .8068526   2.016064     0.40   0.689     -3.14456
4.758265
------------------------------------------------------------------------------
--------
```

[44]:
```
* One concern series1. : g charging time

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
 ↪ev_owner saving_free g_cons_long_charge_time
estimates store model5g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.21066
Iteration 2:   log likelihood = -101.42774
Iteration 3:   log likelihood = -101.41077
Iteration 4:   log likelihood = -101.41071
Iteration 5:   log likelihood = -101.41071

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.36
                                                Prob > chi2       =     0.0030
Log likelihood = -101.41071                     Pseudo R2         =     0.1555

------------------------------------------------------------------------------
---------
                           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------------------+----------------------------------------------------
---------
                         age |   .2526962   .3027777     0.83   0.404    -.3407372
.8461295
                      gender |   -.002798   .5154976    -0.01   0.996    -1.013155
1.007559
                    marriage |  -.4478694   .4856473    -0.92   0.356    -1.399721
.5039819
                    student1 |   .3653062   1.070625     0.34   0.733    -1.733081
2.463693
                company_man2 |  -2.065849   1.307278    -1.58   0.114    -4.628067
.4963695
              public_officer3 |  -.0111962   .7169945    -0.02   0.988     -1.41648
1.394087
                  profession4 |   .0240786   1.019167     0.02   0.981    -1.973452
2.021609
                  researcher5 |   2.171344   1.251559     1.73   0.083    -.2816675
4.624355
                       learn |  -.0266422   .4035161    -0.07   0.947    -.8175192
.7642347
                      income |   .0240996   .1578172     0.15   0.879    -.2852164
.3334157
                avg_distance |   .2959125   .1387823     2.13   0.033     .0239043
.5679207
                  freq_use_ev |   .0349731   .1686781     0.21   0.836    -.2956299
.3655761
                  club_kepco2 |   -.351058   .4915507    -0.71   0.475     -1.31448
.6123636
                   club_jeju3 |  -1.588079   .8635144    -1.84   0.066    -3.280536
.1043782
```

```
              ev_owner |   .7055209   .6427908     1.10   0.272    -.5543259
1.965368
           saving_free |  -1.184223   .6523458    -1.82   0.069    -2.462797
.0943514
g_cons_long_charge_time |   .1189369   .1873459     0.63   0.526    -.2482544
.4861282
                 _cons |   .7636107   2.024359     0.38   0.706     -3.20406
4.731281
------------------------------------------------------------------------------
---------
```

[45]:
```
* One concern series1. : g concern on hill side

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free g_cons_hill_ride
estimates store model6g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -102.28341
Iteration 2:   log likelihood = -101.50905
Iteration 3:   log likelihood = -101.49191
Iteration 4:   log likelihood = -101.49185
Iteration 5:   log likelihood = -101.49185

Logistic regression                             Number of obs     =        184
                                                LR chi2(17)       =      37.20
                                                Prob > chi2       =     0.0032
Log likelihood = -101.49185                     Pseudo R2         =     0.1549

------------------------------------------------------------------------------
--
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
--
         age |   .2526804   .3041088     0.83   0.406    -.3433618
.8487226
      gender |   .0016496   .5161134     0.00   0.997    -1.009914
1.013213
    marriage |  -.4671721   .4849825    -0.96   0.335     -1.41772
.4833761
    student1 |   .3562605   1.067949     0.33   0.739    -1.736882
2.449403
company_man2 |  -2.063556   1.309543    -1.58   0.115    -4.630213
```

```
.5031011
 public_officer3 |  -.0348603   .7155481    -0.05   0.961    -1.437309
1.367588
     profession4 |  -.0078518   1.014878    -0.01   0.994    -1.996977
1.981273
     researcher5 |    2.09182   1.250281     1.67   0.094    -.3586864
4.542326
           learn |  -.0441427   .4009484    -0.11   0.912    -.8299871
.7417016
          income |   .0337213   .1578033     0.21   0.831    -.2755675
.34301
    avg_distance |   .2952936    .139033     2.12   0.034     .0227939
.5677934
     freq_use_ev |   .0304605   .1687233     0.18   0.857     -.300231
.361152
     club_kepco2 |  -.3311903   .4889439    -0.68   0.498    -1.289503
.6271221
      club_jeju3 |   -1.55347   .8587708    -1.81   0.070     -3.23663
.1296896
        ev_owner |   .7364284   .6396421     1.15   0.250    -.5172471
1.990104
     saving_free |  -1.147424   .6516068    -1.76   0.078     -2.42455
.1297014
g_cons_hill_ride |   .0754002   .1525122     0.49   0.621    -.2235182
.3743185
           _cons |   .8050491   2.018675     0.40   0.690    -3.151481
4.761579
------------------------------------------------------------------------------
--
```

[46]:
```
* One concern series1. : g concern on hvac

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3 ␣
↪ev_owner saving_free g_cons_hac
estimates store model7g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood =  -101.5966
Iteration 2:   log likelihood = -100.85347
Iteration 3:   log likelihood = -100.83845
Iteration 4:   log likelihood = -100.83839
Iteration 5:   log likelihood = -100.83839

Logistic regression                             Number of obs     =        184
```

```
                                                LR chi2(17)       =      38.50
                                                Prob > chi2       =     0.0021
Log likelihood = -100.83839                     Pseudo R2         =     0.1603

------------------------------------------------------------------------------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |    .288734   .3031969     0.95   0.341     -.305521    .882989
      gender |   .0438185   .5189288     0.08   0.933    -.9732632    1.0609
    marriage |  -.4174317   .4850512    -0.86   0.389    -1.368115    .5332513
    student1 |    .357016   1.068626     0.33   0.738    -1.737452    2.451484
 company_man2 |  -2.190797    1.34285    -1.63   0.103    -4.822734    .4411403
public_officer3 |   .0077109   .7165675     0.01   0.991    -1.396736    1.412157
  profession4 |   .0145553   1.023678     0.01   0.989    -1.991817    2.020927
  researcher5 |   2.243602   1.250443     1.79   0.073    -.2072205    4.694424
        learn |  -.0526301   .4017735    -0.13   0.896    -.8400916    .7348315
       income |   .0281813   .1586542     0.18   0.859    -.2827753    .3391379
 avg_distance |   .2879985   .1389527     2.07   0.038     .0156562    .5603407
  freq_use_ev |   .0424937   .1685402     0.25   0.801     -.287839    .3728265
  club_kepco2 |  -.3654345    .494168    -0.74   0.460    -1.333986    .6031169
   club_jeju3 |  -1.494318   .8612765    -1.74   0.083    -3.182389    .193753
     ev_owner |   .7544165   .6453021     1.17   0.242    -.5103524    2.019185
  saving_free |  -1.300488   .6655026    -1.95   0.051    -2.604849    .0038731
   g_cons_hac |   -.187025   .1514541    -1.23   0.217    -.4838696    .1098195
        _cons |   .7013285   2.018374     0.35   0.728    -3.254612    4.657269
------------------------------------------------------------------------------
```

[47]:
```
** gap concern

logit y age gender marriage student1 company_man2 public_officer3 profession4␣
 ↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3  ␣
 ↪ev_owner saving_free g_cons_short_dis g_cons_as g_cons_charge_fee␣
 ↪g_cons_num_charge_lack g_cons_long_charge_time g_cons_hill_ride g_cons_hac
estimates store model8g
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood =  -98.93757
Iteration 2:   log likelihood =  -98.01825
Iteration 3:   log likelihood = -97.999745
Iteration 4:   log likelihood = -97.999695
Iteration 5:   log likelihood = -97.999695

Logistic regression                             Number of obs     =        184
                                                LR chi2(23)       =      44.18
                                                Prob > chi2       =     0.0050
Log likelihood = -97.999695                     Pseudo R2         =     0.1839

------------------------------------------------------------------------------
---------
           y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
---------
         age |   .2288567   .3201341     0.71   0.475    -.3985946
.856308
      gender |   .1815174   .5518584     0.33   0.742    -.9001052
1.26314
    marriage |  -.4329954   .4921615    -0.88   0.379    -1.397614
.5316234
    student1 |     .72069   1.087692     0.66   0.508    -1.411146
2.852526
 company_man2 |  -1.850981   1.348545    -1.37   0.170    -4.494082
.792119
public_officer3 |    .274416   .7440225     0.37   0.712    -1.183841
1.732673
 profession4 |   .3452879   1.045763     0.33   0.741     -1.70437
2.394946
 researcher5 |   2.621105   1.303089     2.01   0.044     .0670979
5.175113
       learn |  -.0187287   .4180343    -0.04   0.964    -.8380609
.8006034
```

```
                income |   .0418953   .1591011     0.26   0.792    -.2699372
.3537278
          avg_distance |    .272662   .1462714     1.86   0.062    -.0140247
.5593488
           freq_use_ev |   .0883844   .1790268     0.49   0.622    -.2625017
.4392705
           club_kepco2 |  -.3952473   .5054085    -0.78   0.434     -1.38583
.5953351
            club_jeju3 |  -1.637314   .8825417    -1.86   0.064    -3.367064
.0924357
              ev_owner |   .7762152   .6638162     1.17   0.242    -.5248407
2.077271
           saving_free |  -1.327662   .7127403    -1.86   0.062    -2.724607
.0692836
      g_cons_short_dis |   .2622668   .1971003     1.33   0.183    -.1240427
.6485762
            g_cons_as |   .0799425    .178586     0.45   0.654    -.2700797
.4299647
     g_cons_charge_fee |  -.2334412   .1990481    -1.17   0.241    -.6235683
.1566859
 g_cons_num_charge_lack |   -.105777   .2327445    -0.45   0.649    -.5619478
.3503937
g_cons_long_charge_time |   .1759085   .2390765     0.74   0.462    -.2926728
.6444897
      g_cons_hill_ride |   .1842571   .1924992     0.96   0.338    -.1930344
.5615486
           g_cons_hac |  -.3658034   .1853265    -1.97   0.048    -.7290367
-.00257
                _cons |    .380798   2.096928     0.18   0.856    -3.729106
4.490702
------------------------------------------------------------------------------
---------
```

[48]:
```
* Model1 total gap table: se and star cannot be together

estimates table base model1g model2g model3g model4g model5g model6g model7g␣
↪model8g, b(%9.3f) star(0.01, 0.05, 0.1) eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------
    Variable |      base         model1g         model2g         model3g
model4g         model5g         model6g         model7g         model8g
-------------+-----------------------------------------------------------------
-------------------------------------------------------------
         age |     0.274           0.268           0.270           0.299
0.267           0.253           0.253           0.289           0.229
```

```
      gender |    -0.002         -0.022          0.009          0.022
0.022         -0.003          0.002          0.044          0.182
    marriage |    -0.459         -0.474         -0.462         -0.473
-0.456         -0.448         -0.467         -0.417         -0.433
    student1 |     0.345          0.361          0.368          0.445
0.367          0.365          0.356          0.357          0.721
company_man2 |    -2.067         -2.095         -2.065         -1.850
-2.057         -2.066         -2.064         -2.191         -1.851
public_off~3 |    -0.032         -0.047         -0.013          0.061
-0.019         -0.011         -0.035          0.008          0.274
 profession4 |    -0.040         -0.025         -0.005         -0.006
-0.042          0.024         -0.008          0.015          0.345
 researcher5 |     2.122*         2.107*         2.109*         2.250*
2.159*         2.171*         2.092*         2.244*         2.621**
       learn |    -0.055         -0.051         -0.052         -0.048
-0.074         -0.027         -0.044         -0.053         -0.019
      income |     0.028          0.019          0.032          0.035
0.029          0.024          0.034          0.028          0.042
avg_distance |     0.288**        0.285**        0.290**        0.269*
0.286**        0.296**        0.295**        0.288**        0.273*
 freq_use_ev |     0.033          0.037          0.025          0.064
0.033          0.035          0.030          0.042          0.088
 club_kepco2 |    -0.321         -0.322         -0.319         -0.304
-0.314         -0.351         -0.331         -0.365         -0.395
  club_jeju3 |    -1.519*        -1.573*        -1.557*        -1.498*
-1.491*        -1.588*        -1.553*        -1.494*        -1.637*
    ev_owner |     0.738          0.699          0.716          0.788
0.746          0.706          0.736          0.754          0.776
 saving_free |    -1.165*        -1.080*        -1.150*        -1.182*
-1.162*        -1.184*        -1.147*        -1.300*        -1.328*
g_cons_sho~s |                    0.186
0.262
   g_cons_as |                                   0.068
0.080
g_cons_cha~e |                                                  -0.137
-0.233
g_cons_num~k |
-0.042                                                         -0.106
g_cons_lon~e |
0.119                                          0.176
g_cons_hil~e |
0.075                          0.184
  g_cons_hac |
-0.187         -0.366**
       _cons |     0.779          0.821          0.785          0.506
0.807          0.764          0.805          0.701          0.381
-------------+------------------------------------------------------------------
------------------------------------------------------------------
```

```
          ll |  -101.614       -100.962       -101.526       -101.318
-101.590       -101.411       -101.492       -100.838        -98.000
------------------------------------------------------------------------------
------------------------------------------------------------------------
                                  legend: * p<.1; ** p<.05; *** p<.01
```

[49]:
```
estimates table base model1g model2g model3g model4g model5g model6g model7g model8g, b(%9.3f) se(%9.3f) eq(1) stats(ll)
```

```
------------------------------------------------------------------------------
----------------------------------------
    Variable |   base       model1g     model2g     model3g     model4g
model5g     model6g     model7g     model8g
-------------+----------------------------------------------------------------
----------------------------------------
         age |     0.274       0.268       0.270       0.299       0.267
0.253       0.253       0.289       0.229
             |     0.300       0.303       0.300       0.303       0.302
0.303       0.304       0.303       0.320
      gender |    -0.002      -0.022       0.009       0.022       0.022
-0.003       0.002       0.044       0.182
             |     0.515       0.518       0.516       0.518       0.526
0.515       0.516       0.519       0.552
    marriage |    -0.459      -0.474      -0.462      -0.473      -0.456
-0.448      -0.467      -0.417      -0.433
             |     0.484       0.487       0.484       0.484       0.484
0.486       0.485       0.485       0.492
    student1 |     0.345       0.361       0.368       0.445       0.367
0.365       0.356       0.357       0.721
             |     1.066       1.066       1.068       1.074       1.069
1.071       1.068       1.069       1.088
company_man2 |    -2.067      -2.095      -2.065      -1.850      -2.057
-2.066      -2.064      -2.191      -1.851
             |     1.312       1.309       1.315       1.338       1.314
1.307       1.310       1.343       1.349
public_off~3 |    -0.032      -0.047      -0.013       0.061      -0.019
-0.011      -0.035       0.008       0.274
             |     0.714       0.720       0.716       0.725       0.715
0.717       0.716       0.717       0.744
 profession4 |    -0.040      -0.025      -0.005      -0.006      -0.042
0.024      -0.008       0.015       0.345
             |     1.013       1.018       1.016       1.015       1.012
1.019       1.015       1.024       1.046
 researcher5 |     2.122       2.107       2.109       2.250       2.159
2.171       2.092       2.244       2.621
             |     1.247       1.249       1.249       1.261       1.259
1.252       1.250       1.250       1.303
```

```
       learn |    -0.055      -0.051      -0.052      -0.048      -0.074
-0.027      -0.044      -0.053      -0.019
             |     0.401       0.401       0.400       0.401       0.410
0.404       0.401       0.402       0.418
      income |     0.028       0.019       0.032       0.035       0.029
0.024       0.034       0.028       0.042
             |     0.158       0.157       0.158       0.159       0.158
0.158       0.158       0.159       0.159
avg_distance |     0.288       0.285       0.290       0.269       0.286
0.296       0.295       0.288       0.273
             |     0.138       0.139       0.138       0.141       0.138
0.139       0.139       0.139       0.146
 freq_use_ev |     0.033       0.037       0.025       0.064       0.033
0.035       0.030       0.042       0.088
             |     0.168       0.169       0.170       0.173       0.168
0.169       0.169       0.169       0.179
 club_kepco2 |    -0.321      -0.322      -0.319      -0.304      -0.314
-0.351      -0.331      -0.365      -0.395
             |     0.488       0.491       0.488       0.489       0.489
0.492       0.489       0.494       0.505
  club_jeju3 |    -1.519      -1.573      -1.557      -1.498      -1.491
-1.588      -1.553      -1.494      -1.637
             |     0.855       0.856       0.858       0.855       0.864
0.864       0.859       0.861       0.883
    ev_owner |     0.738       0.699       0.716       0.788       0.746
0.706       0.736       0.754       0.776
             |     0.642       0.653       0.644       0.646       0.641
0.643       0.640       0.645       0.664
 saving_free |    -1.165      -1.080      -1.150      -1.182      -1.162
-1.184      -1.147      -1.300      -1.328
             |     0.649       0.656       0.650       0.652       0.650
0.652       0.652       0.666       0.713
g_cons_sho~s |                 0.186
0.262
             |                 0.164
0.197
   g_cons_as |                             0.068
0.080
             |                             0.163
0.179
g_cons_cha~e |                                         -0.137
-0.233
             |                                          0.178
0.199
g_cons_num~k |                                                     -0.042
-0.106
             |                                                      0.191
0.233
```

```
g_cons_lon~e |
0.119                               0.176
             |
0.187                               0.239
g_cons_hil~e |
0.075                    0.184
             |
0.153                    0.192
  g_cons_hac |
-0.187       -0.366
             |
0.151        0.185
       _cons |     0.779       0.821       0.785       0.506       0.807
0.764        0.805       0.701       0.381
             |     2.014       2.027       2.011       2.040       2.016
2.024        2.019       2.018       2.097
-------------+------------------------------------------------------------------
-----------------------------------------
          ll |  -101.614    -100.962    -101.526    -101.318    -101.590
-101.411     -101.492    -100.838     -98.000
------------------------------------------------------------------------------
-----------------------------------------
                               legend: b/se
```

[50]:
```
** all after, before, gap

estimates table base model8 model8b model8g, b(%9.3f) star(0.01, 0.05, 0.1)␣
↪eq(1) stats(ll)
```

```
-------------------------------------------------------------------------
    Variable |      base          model8         model8b         model8g
-------------+-----------------------------------------------------------
         age |     0.274          0.341          0.203          0.229
      gender |    -0.002          0.012         -0.001          0.182
    marriage |    -0.459         -0.473         -0.490         -0.433
    student1 |     0.345          0.117          0.117          0.721
company_man2 |    -2.067         -2.113         -2.394*        -1.851
public_off~3 |    -0.032         -0.003         -0.117          0.274
 profession4 |    -0.040         -0.521         -0.562          0.345
 researcher5 |     2.122*         2.272*         2.236*         2.621**
       learn |    -0.055          0.120          0.146         -0.019
      income |     0.028          0.056          0.044          0.042
avg_distance |     0.288**        0.282*         0.345**        0.273*
 freq_use_ev |     0.033          0.087         -0.048          0.088
 club_kepco2 |    -0.321         -0.488         -0.428         -0.395
  club_jeju3 |    -1.519*        -0.980         -0.736         -1.637*
    ev_owner |     0.738          0.861          0.835          0.776
```

```
 saving_free |    -1.165*       -1.482**       -1.003         -1.328*
a_cons_sho~s |                     0.020
   a_cons_as |                    -0.122
a_cons_cha~e |                    -0.270
a_cons_num~k |                     0.090
a_cons_lon~e |                    -0.116
a_cons_hil~e |                     0.242
  a_cons_hac |                    -0.417**
b_cons_sho~s |                                    -0.317
   b_cons_as |                                    -0.227
b_cons_cha~e |                                    -0.192
b_cons_num~k |                                     0.190
b_cons_lon~e |                                    -0.293
  b_cons_hac |                                    -0.178
b_cons_hil~e |                                     0.087
g_cons_sho~s |                                                    0.262
   g_cons_as |                                                    0.080
g_cons_cha~e |                                                   -0.233
g_cons_num~k |                                                   -0.106
g_cons_lon~e |                                                    0.176
g_cons_hil~e |                                                    0.184
  g_cons_hac |                                                   -0.366**
       _cons |     0.779          2.039          3.689          0.381
-------------+------------------------------------------------------------
          ll |  -101.614        -96.295        -96.385        -98.000
------------------------------------------------------------------------------
                                       legend: * p<.1; ** p<.05; *** p<.01
```

[58]:
```
estimates table base model8 model8b model8g, eq(1) stats(ll)
```

```
-------------------------------------------------------------
    Variable |    base        model8      model8b      model8g
-------------+-----------------------------------------------
         age |  .27433601    .34094403     .2026883    .22885667
      gender | -.00157215    .01158954    -.0008958    .18151741
    marriage | -.45902565   -.47313857   -.48960027   -.43299543
    student1 |  .34500825    .11665415    .11653204    .72069001
company_man2 | -2.0672433   -2.1127671   -2.3938666   -1.8509815
public_off~3 | -.03150926   -.00256859   -.11676944    .27441597
 profession4 |  -.0396948   -.52058398   -.56160082    .34528793
 researcher5 |   2.121919    2.272473    2.2359377    2.6211054
       learn | -.05483902    .12023159    .14628943   -.01872875
      income |  .02757631    .05603638    .04401357     .0418953
avg_distance |  .28818206    .28246135     .3448247    .27266202
 freq_use_ev |  .03332234    .08671765   -.04770056    .08838438
 club_kepco2 | -.32075565   -.48827049   -.42786653   -.39524729
  club_jeju3 |  -1.519045    -.9796557     -.736143   -1.6373142
```

```
    ev_owner |  .73753837    .86113988    .83510934    .77621517
 saving_free | -1.1649292   -1.4821646   -1.0030266   -1.3276617
a_cons_sho~s |               .01985087
   a_cons_as |              -.12234938
a_cons_cha~e |              -.27002681
a_cons_num~k |               .09008368
a_cons_lon~e |              -.11631595
a_cons_hil~e |               .24176236
  a_cons_hac |              -.41722233
b_cons_sho~s |                           -.31706992
   b_cons_as |                           -.22709594
b_cons_cha~e |                           -.19203069
b_cons_num~k |                            .18976042
b_cons_lon~e |                           -.29254936
  b_cons_hac |                           -.17811429
b_cons_hil~e |                            .08658827
g_cons_sho~s |                                        .26226676
   g_cons_as |                                        .07994249
g_cons_cha~e |                                       -.23344123
g_cons_num~k |                                       -.10577703
g_cons_lon~e |                                        .17590847
g_cons_hil~e |                                        .18425709
  g_cons_hac |                                       -.36580335
       _cons |  .77918613    2.0389122    3.6885104    .38079798
-------------+----------------------------------------------------
          ll | -101.61422   -96.295387   -96.384988   -97.999695
------------------------------------------------------------------
```

[59]:
```
logit y age gender marriage student1 company_man2 public_officer3 profession4␣
↪researcher5 learn income avg_distance freq_use_ev club_kepco2 club_jeju3␣
↪a_cons_short_dis a_cons_as a_cons_charge_fee a_cons_num_charge_lack␣
↪a_cons_long_charge_time a_cons_hill_ride a_cons_hac num_car saving_free␣
↪ev_owner
```

```
Iteration 0:   log likelihood = -120.09018
Iteration 1:   log likelihood = -97.234209
Iteration 2:   log likelihood = -96.274852
Iteration 3:   log likelihood = -96.261024
Iteration 4:   log likelihood = -96.260986
Iteration 5:   log likelihood = -96.260986

Logistic regression                             Number of obs     =        184
                                                LR chi2(24)       =      47.66
                                                Prob > chi2       =     0.0028
Log likelihood = -96.260986                     Pseudo R2         =     0.1984

------------------------------------------------------------------------------
```

```
---------
                   y |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
---------------------+-----------------------------------------------------
---------
                 age |   .3629497   .3302146     1.10   0.272     -.284259
1.010158
              gender |   .0124888   .5355025     0.02   0.981    -1.037077
1.062054
            marriage |  -.4928449   .5053574    -0.98   0.329    -1.483327
.4976374
            student1 |   .1239182   1.122806     0.11   0.912    -2.076741
2.324577
        company_man2 |  -2.114302   1.415544    -1.49   0.135    -4.888717
.6601121
     public_officer3 |   .0051224   .7533639     0.01   0.995    -1.471444
1.481689
         profession4 |  -.4883932   1.077669    -0.45   0.650    -2.600587
1.6238
         researcher5 |   2.270901   1.291126     1.76   0.079    -.2596602
4.801462
               learn |   .1275357    .434142     0.29   0.769    -.7233669
.9784383
              income |   .0570577   .1669668     0.34   0.733    -.2701912
.3843067
        avg_distance |   .2882062   .1561855     1.85   0.065    -.0179117
.5943241
         freq_use_ev |   .0853563   .1781081     0.48   0.632    -.2637292
.4344418
         club_kepco2 |  -.4980306   .5175859    -0.96   0.336     -1.51248
.5164191
          club_jeju3 |  -.9674553   .9410337    -1.03   0.304    -2.811848
.876937
   a_cons_short_dis |   .0227753   .1987913     0.11   0.909    -.3668486
.4123991
         a_cons_as |  -.1157006   .1879134    -0.62   0.538    -.4840041
.2526029
  a_cons_charge_fee |  -.2705911   .1909555    -1.42   0.156    -.6448569
.1036747
a_cons_num_charge_lack |   .0842318   .2368417     0.36   0.722    -.3799694
.5484329
a_cons_long_charge_time |  -.1182191     .23553    -0.50   0.616    -.5798494
.3434111
   a_cons_hill_ride |   .2468817   .1939714     1.27   0.203    -.1332953
.6270586
         a_cons_hac |  -.4192161   .1807688    -2.32   0.020    -.7735164
-.0649157
            num_car |  -.0945288   .3604843    -0.26   0.793    -.8010651
```

```
.6120074
            saving_free |  -1.475505    .6878524    -2.15   0.032    -2.823671
-.1273392
               ev_owner |   .9014288    .6855678     1.31   0.189    -.4422595
2.245117
                  _cons |   2.012862   2.382101     0.84   0.398     -2.65597
6.681694
------------------------------------------------------------------------------
---------
```

[60]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free
estimates store base_o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -273.57947
Iteration 2:   log likelihood =  -273.5551
Iteration 3:   log likelihood =  -273.5551

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(16)       =      30.86
                                                Prob > chi2       =     0.0140
Log likelihood =  -273.5551                     Pseudo R2         =     0.0534

------------------------------------------------------------------------------
-
     a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
----------------+-------------------------------------------------------------
-
            age |   .0193158   .1335208     0.14   0.885    -.2423801
.2810118
         gender |   .2252427   .2451132     0.92   0.358    -.2551703
.7056557
       marriage |  -.0051852   .2146371    -0.02   0.981    -.4258661
.4154958
       student1 |  -1.087608   .4994205    -2.18   0.029    -2.066454
-.1087614
   company_man2 |  -.1792572   .5701841    -0.31   0.753    -1.296798
.9382831
public_officer3 |  -.0551998   .3505375    -0.16   0.875    -.7422408
.6318411
    profession4 |  -.7591568   .4781145    -1.59   0.112    -1.696244
.1779303
    researcher5 |   .0303194   .4160135     0.07   0.942     -.785052
```

```
.8456908
         learn |   .1232284    .187602     0.66   0.511    -.2444648
.4909216
        income |  -.0304647   .0695175    -0.44   0.661    -.1667166
.1057872
   avg_distance |  -.0388748   .0617486    -0.63   0.529    -.1598998
.0821502
    freq_use_ev |   .0569555   .0794123     0.72   0.473    -.0986898
.2126008
    club_kepco2 |   -.350661   .2093773    -1.67   0.094     -.761033
.0597109
     club_jeju3 |   .7324936   .3939428     1.86   0.063    -.0396201
1.504607
       ev_owner |  -.2192649    .282639    -0.78   0.438    -.7732272
.3346973
    saving_free |  -.6457005   .2827903    -2.28   0.022    -1.199959
-.0914416
----------------+-----------------------------------------------------------
-
         /cut1 |  -1.447614   .9174344                     -3.245752
.3505247
         /cut2 |  -.8835114   .9124277                     -2.671837
.9048141
         /cut3 |  -.1009843   .9130668                     -1.890562
1.688594
         /cut4 |   .7302089   .9157855                     -1.064698
2.525116
------------------------------------------------------------------------------
-
```

[61]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free a_cons_short_dis
estimates store model1o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -264.22488
Iteration 2:   log likelihood = -264.13724
Iteration 3:   log likelihood = -264.13723

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      49.70
                                                Prob > chi2       =     0.0000
Log likelihood = -264.13723                     Pseudo R2         =     0.0860
```

```
------------------------------------------------------------------------------
      a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-----------------+------------------------------------------------------------
             age |   .0476201     .13472     0.35   0.724    -.2164263
.3116666
          gender |   .1516266   .2469204     0.61   0.539    -.3323285
.6355816
        marriage |  -.0357915   .2159372    -0.17   0.868    -.4590205
.3874375
        student1 |  -.9823696   .5065341    -1.94   0.052    -1.975158
.010419
    company_man2 |  -.2091682   .5759609    -0.36   0.716    -1.338031
.9196944
 public_officer3 |  -.1636229   .3565879    -0.46   0.646    -.8625223
.5352765
     profession4 |   -.708426   .4832607    -1.47   0.143      -1.6556
.2387476
     researcher5 |  -.1075994   .4225526    -0.25   0.799    -.9357873
.7205886
           learn |   .0300777   .1900417     0.16   0.874    -.3423972
.4025526
          income |  -.0423257   .0699893    -0.60   0.545    -.1795023
.0948508
    avg_distance |  -.0769654   .0629608    -1.22   0.222    -.2003663
.0464355
     freq_use_ev |   .1013926   .0804176     1.26   0.207    -.0562229
.2590082
     club_kepco2 |  -.3769933   .2116844    -1.78   0.075    -.7918872
.0379005
      club_jeju3 |   .3570484   .4049025     0.88   0.378    -.4365459
1.150643
        ev_owner |  -.3339194   .2880276    -1.16   0.246    -.8984431
.2306043
     saving_free |  -.6694244    .284287    -2.35   0.019    -1.226617
-.1122321
a_cons_short_dis |   .3424568    .079615     4.30   0.000     .1864141
.4984994
-----------------+------------------------------------------------------------
           /cut1 |  -.7451142   .9367482                     -2.581107
1.090879
           /cut2 |  -.1601609    .932689                     -1.988198
1.667876
           /cut3 |   .6664903   .9356071                     -1.167266
2.500247
```

```
           /cut4 |    1.56161   .9420478                      -.2847696
3.40799
------------------------------------------------------------------------------
--
```

[62]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free a_cons_as
estimates store model2o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -264.34108
Iteration 2:   log likelihood = -264.24297
Iteration 3:   log likelihood = -264.24296

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      49.48
                                                Prob > chi2       =     0.0001
Log likelihood = -264.24296                     Pseudo R2         =     0.0856

------------------------------------------------------------------------------
-
     a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
----------------+-------------------------------------------------------------
-
            age |    .021909   .1346898     0.16   0.871    -.2420781
.2858961
         gender |    .339882   .2478069     1.37   0.170    -.1458105
.8255745
       marriage |  -.0282188   .2157366    -0.13   0.896    -.4510549
.3946172
       student1 |  -1.149105   .5046309    -2.28   0.023    -2.138163
-.1600462
   company_man2 |  -.2415778   .5705992    -0.42   0.672    -1.359932
.8767762
public_officer3 |   .0280853   .3524513     0.08   0.936    -.6627065
.7188771
    profession4 |  -.5291275   .4849322    -1.09   0.275    -1.479577
.4213222
    researcher5 |  -.1380242   .4201746    -0.33   0.743    -.9615513
.6855029
          learn |   .0208782   .1901765     0.11   0.913    -.3518609
.3936174
         income |  -.0450142   .0701496    -0.64   0.521     -.182505
```

```
.0924766
   avg_distance |  -.0590368    .062543    -0.94   0.345    -.1816187
.0635452
    freq_use_ev |    .074464   .0800774     0.93   0.352    -.0824848
.2314129
    club_kepco2 |  -.2934569    .210979    -1.39   0.164    -.7069681
.1200542
     club_jeju3 |   .2707617   .4114885     0.66   0.511     -.535741
1.077264
       ev_owner |  -.3225697   .2882639    -1.12   0.263    -.8875566
.2424173
    saving_free |  -.6124878   .2850482    -2.15   0.032    -1.171172
-.0538035
      a_cons_as |   .3353655   .0781944     4.29   0.000     .1821072
.4886237
----------------+-----------------------------------------------------------
-
          /cut1 |  -.6910179   .9397389                     -2.532872
1.150837
          /cut2 |  -.0818969   .9364266                     -1.917259
1.753466
          /cut3 |   .7540316   .9401738                     -1.088675
2.596738
          /cut4 |   1.617034   .9442981                     -.2337562
3.467824
------------------------------------------------------------------------------
-
```

[63]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free a_cons_charge_fee
estimates store model3o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -268.37871
Iteration 2:   log likelihood = -268.32914
Iteration 3:   log likelihood = -268.32914

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      41.31
                                                Prob > chi2       =     0.0008
Log likelihood = -268.32914                     Pseudo R2         =     0.0715

------------------------------------------------------------------------------
---
```

```
       a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
------------------+------------------------------------------------------------
---
              age |   .0023896   .1341525     0.02   0.986    -.2605445
.2653238
           gender |   .2459328   .2462188     1.00   0.318    -.2366473
.7285129
         marriage |  -.0584164   .2158698    -0.27   0.787    -.4815135
.3646807
         student1 |  -1.256179   .5061572    -2.48   0.013    -2.248229
-.2641291
     company_man2 |  -.3416472   .5751743    -0.59   0.553    -1.468968
.7856737
  public_officer3 |  -.1301732   .3524195    -0.37   0.712    -.8209027
.5605564
      profession4 |  -.7490625   .4801292    -1.56   0.119    -1.690098
.1919733
      researcher5 |  -.1928127   .4237554    -0.46   0.649    -1.023358
.6377326
            learn |   .1348414   .1877873     0.72   0.473    -.2332149
.5028978
           income |    -.05282   .0700356    -0.75   0.451    -.1900871
.0844472
     avg_distance |   .0029035   .0632074     0.05   0.963    -.1209808
.1267878
      freq_use_ev |   .0189905   .0803769     0.24   0.813    -.1385454
.1765263
      club_kepco2 |  -.2978463   .2103857    -1.42   0.157    -.7101946
.114502
       club_jeju3 |   .6191356   .3966316     1.56   0.119    -.1582481
1.396519
         ev_owner |  -.3381333   .2863774    -1.18   0.238    -.8994228
.2231562
      saving_free |  -.5893236   .2847271    -2.07   0.038    -1.147379
-.0312687
a_cons_charge_fee |   .2510794    .077887     3.22   0.001     .0984236
.4037351
------------------+------------------------------------------------------------
---
            /cut1 |  -.8604716   .9369197                      -2.6968
.9758571
            /cut2 |  -.2776548   .9327943                     -2.105898
1.550588
            /cut3 |   .5297261   .9351094                     -1.303055
2.362507
            /cut4 |   1.385753    .940122                     -.4568524
3.228358
```

```
------------------------------------------------------------------------------
---
```

[64]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
 ↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
 ↪club_jeju3 ev_owner saving_free a_cons_num_charge_lack
estimates store model4o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -269.93157
Iteration 2:   log likelihood = -269.86801
Iteration 3:   log likelihood =   -269.868

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      38.23
                                                Prob > chi2       =     0.0023
Log likelihood =   -269.868                     Pseudo R2         =     0.0662

------------------------------------------------------------------------------
--------
            a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-----------------------+------------------------------------------------------
--------
                   age |   .0448945   .1346036     0.33   0.739    -.2189237
.3087128
                gender |   .1741649   .2464957     0.71   0.480    -.3089578
.6572876
              marriage |   .0059454   .2151953     0.03   0.978    -.4158296
.4277204
              student1 |  -1.193501   .5057725    -2.36   0.018    -2.184797
-.202205
          company_man2 |  -.2982034   .5720645    -0.52   0.602    -1.419429
.8230224
       public_officer3 |  -.1355667    .354238    -0.38   0.702    -.8298605
.5587271
           profession4 |  -.6805147   .4818774    -1.41   0.158    -1.624977
.2639475
           researcher5 |  -.1580234   .4241305    -0.37   0.709    -.9893038
.673257
                 learn |   .1744494   .1892681     0.92   0.357    -.1965092
.5454079
                income |  -.0393605   .0699728    -0.56   0.574    -.1765046
.0977836
          avg_distance |  -.0394155   .0621015    -0.63   0.526    -.1611322
```

```
.0823013
           freq_use_ev |   .0720974   .0798334     0.90   0.366    -.0843733
.2285681
           club_kepco2 |  -.3539926   .2103668    -1.68   0.092    -.7663039
.0583186
            club_jeju3 |   .6289367   .3975605     1.58   0.114    -.1502676
1.408141
              ev_owner |  -.2282124   .2855534    -0.80   0.424    -.7878869
.3314621
           saving_free |   -.687157   .2840442    -2.42   0.016    -1.243873
-.1304406
a_cons_num_charge_lack |    .227926   .0844809     2.70   0.007     .0623465
.3935055
-----------------------+------------------------------------------------------
--------
                 /cut1 |  -.4327605   .9944531                      -2.381853
1.516332
                 /cut2 |   .1445232   .9915191                      -1.798818
2.087865
                 /cut3 |   .9394855   .9939963                      -1.008711
2.887683
                 /cut4 |   1.788761   .9995371                      -.1702957
3.747818
------------------------------------------------------------------------------
--------
```

[65]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free a_cons_long_charge_time
estimates store model5o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -266.45085
Iteration 2:   log likelihood = -266.35774
Iteration 3:   log likelihood = -266.35774

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      45.26
                                                Prob > chi2       =     0.0002
Log likelihood = -266.35774                     Pseudo R2         =     0.0783

------------------------------------------------------------------------------
---------
            a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
```

```
-----------------------+------------------------------------------------------
---------
                   age |  -.0268341   .1356328    -0.20   0.843    -.2926695
.2390013
                gender |   .2431912    .245688     0.99   0.322    -.2383483
.7247308
              marriage |   .0498201   .2162127     0.23   0.818    -.3739489
.4735892
              student1 |  -1.072238   .5064514    -2.12   0.034    -2.064865
-.0796115
          company_man2 |  -.3108391   .5758247    -0.54   0.589    -1.439435
.8177566
        public_officer3 |  -.0361556   .3546343    -0.10   0.919    -.7312261
.6589148
           profession4 |  -.4738505   .4881577    -0.97   0.332    -1.430622
.482921
           researcher5 |   .1032184   .4211238     0.25   0.806     -.722169
.9286059
                 learn |   .0991077   .1887757     0.53   0.600    -.2708859
.4691013
                income |  -.0534327   .0703902    -0.76   0.448     -.191395
.0845296
          avg_distance |  -.0323443   .0622331    -0.52   0.603    -.1543189
.0896303
           freq_use_ev |   .0840561   .0800744     1.05   0.294    -.0728868
.240999
           club_kepco2 |  -.3622683   .2110058    -1.72   0.086    -.7758322
.0512955
            club_jeju3 |   .4255146   .4043525     1.05   0.293    -.3670017
1.218031
              ev_owner |  -.3579023   .2909951    -1.23   0.219    -.9282422
.2124376
           saving_free |  -.7204855   .2840387    -2.54   0.011    -1.277191
-.1637798
a_cons_long_charge_time |   .3282766   .0875837     3.75   0.000     .1566158
.4999374
-----------------------+------------------------------------------------------
---------
                 /cut1 |  -.3796515   .9623699                     -2.265862
1.506559
                 /cut2 |   .2128966   .9595997                     -1.667884
2.093678
                 /cut3 |   1.018147    .962222                     -.8677733
2.904068
                 /cut4 |   1.883774   .9682445                     -.0139506
3.781498
------------------------------------------------------------------------------
---------
```

[66]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free a_cons_hill_ride
estimates store model6o
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -252.82879
Iteration 2:   log likelihood =  -252.6716
Iteration 3:   log likelihood =  -252.6716

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      72.63
                                                Prob > chi2       =     0.0000
Log likelihood =  -252.6716                     Pseudo R2         =     0.1257

------------------------------------------------------------------------------
--
      a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-----------------+------------------------------------------------------------
--
             age |   -.065919   .1358715    -0.49   0.628    -.3322222
.2003842
          gender |   .3072282   .2492903     1.23   0.218    -.1813718
.7958283
        marriage |  -.0860804   .2170671    -0.40   0.692     -.511524
.3393633
        student1 |  -.9315159   .5132601    -1.81   0.070    -1.937487
.0744553
    company_man2 |   .2874129   .5769876     0.50   0.618     -.843462
1.418288
 public_officer3 |   .0721076   .3573309     0.20   0.840    -.6282481
.7724633
     profession4 |  -.6292245   .4869168    -1.29   0.196    -1.583564
.3251148
     researcher5 |  -.0501436   .4248855    -0.12   0.906    -.8829039
.7826166
           learn |   .2087124    .189856     1.10   0.272    -.1633986
.5808233
          income |  -.0169526   .0703652    -0.24   0.810    -.1548659
.1209607
    avg_distance |   .0562462   .0644972     0.87   0.383    -.0701659
.1826583
     freq_use_ev |   .0381084   .0807581     0.47   0.637    -.1201745
```

```
.1963914
     club_kepco2 |  -.2388172   .2128758    -1.12   0.262    -.6560461
.1784118
      club_jeju3 |   .7121309   .4006752     1.78   0.076    -.0731781
1.49744
        ev_owner |  -.1625402   .2868303    -0.57   0.571    -.7247172
.3996368
     saving_free |  -.4865719   .2892473    -1.68   0.093    -1.053486
.0803423
a_cons_hill_ride |   .4984604   .0782516     6.37   0.000       .34509
.6518308
-----------------+------------------------------------------------------------
--
           /cut1 |   .4357244   .9724344                     -1.470212
2.341661
           /cut2 |   1.112747   .9726127                     -.7935388
3.019033
           /cut3 |   2.008472   .9796111                      .0884692
3.928474
           /cut4 |   2.913437   .9870437                      .9788667
4.848007
------------------------------------------------------------------------------
--
```

[67]:
```
oprobit a_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free a_cons_short_dis a_cons_as a_cons_charge_fee␣
↪a_cons_num_charge_lack a_cons_long_charge_time a_cons_hill_ride
estimates store model7oall
```

```
Iteration 0:   log likelihood = -288.98528
Iteration 1:   log likelihood = -238.04074
Iteration 2:   log likelihood = -237.69761
Iteration 3:   log likelihood = -237.69745
Iteration 4:   log likelihood = -237.69745

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(22)       =     102.58
                                                Prob > chi2       =     0.0000
Log likelihood = -237.69745                     Pseudo R2         =     0.1775

------------------------------------------------------------------------------
---------
            a_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
```

```
-----------------------+------------------------------------------------------------
---------
                   age |  -.0663047   .1403809    -0.47   0.637    -.3414462
.2088367
                gender |   .2925407   .2543287     1.15   0.250    -.2059344
.7910157
              marriage |  -.0980792   .2209631    -0.44   0.657    -.5311589
.3350005
              student1 |  -.9877176   .5341539    -1.85   0.064     -2.03464
.0592048
          company_man2 |   .0647339   .5919135     0.11   0.913    -1.095395
1.224863
       public_officer3 |   .0045556   .3693792     0.01   0.990    -.7194144
.7285256
           profession4 |  -.3540248   .5059288    -0.70   0.484    -1.345627
.6375774
           researcher5 |  -.2731522   .4500121    -0.61   0.544     -1.15516
.6088552
                 learn |   .0346491   .1993359     0.17   0.862     -.356042
.4253403
                income |  -.0485727   .0721581    -0.67   0.501    -.1899999
.0928546
          avg_distance |   .0089097   .0681372     0.13   0.896    -.1246367
.1424561
           freq_use_ev |   .0927793   .0840078     1.10   0.269    -.0718731
.2574316
           club_kepco2 |  -.2301891    .218003    -1.06   0.291    -.6574672
.197089
            club_jeju3 |   -.042817   .4337113    -0.10   0.921    -.8928756
.8072415
              ev_owner |  -.4781744   .3061431    -1.56   0.118    -1.078204
.121855
           saving_free |  -.5358841   .2931692    -1.83   0.068    -1.110485
.0387169
      a_cons_short_dis |   .3075773   .0892657     3.45   0.001     .1326198
.4825348
            a_cons_as |   .1939402   .0843389     2.30   0.021     .0286389
.3592415
     a_cons_charge_fee |    .079908   .0853424     0.94   0.349    -.0873601
.2471761
 a_cons_num_charge_lack |  -.0004226   .1079322    -0.00   0.997    -.2119658
.2111206
a_cons_long_charge_time |   .1561252   .1075668     1.45   0.147    -.0547018
.3669522
      a_cons_hill_ride |   .4296546   .0852005     5.04   0.000     .2626647
.5966445
-----------------------+------------------------------------------------------------
---------
```

```
                /cut1 |   1.855978   1.058428                     -.2185038
3.930459
                /cut2 |   2.590308    1.06203                      .5087685
4.671848
                /cut3 |   3.569183   1.073202                      1.465745
5.672621
                /cut4 |    4.57188   1.086823                      2.441745
6.702014
------------------------------------------------------------------------------
---------
```

[68]:
```
estimates table base_o model1o  model2o model3o model4o  model5o model6o␣
↪model7oall, b(%9.3f) star(0.01, 0.05, 0.1) eq(1) stats(ll)
```

```
------------------------------------------------------------------------------
-------------------------------------------------------
    Variable |    base_o        model1o        model2o        model3o
model4o        model5o        model6o       model7oall
-------------+----------------------------------------------------------------
-------------------------------------------------------
#1           |
         age |     0.019          0.048          0.022          0.002
0.045         -0.027         -0.066         -0.066
      gender |     0.225          0.152          0.340          0.246
0.174          0.243          0.307          0.293
    marriage |    -0.005         -0.036         -0.028         -0.058
0.006          0.050         -0.086         -0.098
    student1 |    -1.088**       -0.982*        -1.149**       -1.256**
-1.194**       -1.072**       -0.932*        -0.988*
company_man2 |    -0.179         -0.209         -0.242         -0.342
-0.298         -0.311          0.287          0.065
public_off~3 |    -0.055         -0.164          0.028         -0.130
-0.136         -0.036          0.072          0.005
 profession4 |    -0.759         -0.708         -0.529         -0.749
-0.681         -0.474         -0.629         -0.354
 researcher5 |     0.030         -0.108         -0.138         -0.193
-0.158          0.103         -0.050         -0.273
       learn |     0.123          0.030          0.021          0.135
0.174          0.099          0.209          0.035
      income |    -0.030         -0.042         -0.045         -0.053
-0.039         -0.053         -0.017         -0.049
avg_distance |    -0.039         -0.077         -0.059          0.003
-0.039         -0.032          0.056          0.009
 freq_use_ev |     0.057          0.101          0.074          0.019
0.072          0.084          0.038          0.093
 club_kepco2 |    -0.351*        -0.377*        -0.293         -0.298
```

```
-0.354*         -0.362*         -0.239          -0.230
  club_jeju3 |     0.732*          0.357           0.271           0.619
0.629           0.426           0.712*         -0.043
    ev_owner |    -0.219          -0.334          -0.323          -0.338
-0.228          -0.358          -0.163          -0.478
 saving_free |    -0.646**        -0.669**        -0.612**        -0.589**
-0.687**        -0.720**        -0.487*         -0.536*
a_cons_sho~s |                    0.342***
0.308***
   a_cons_as |                                     0.335***
0.194**
a_cons_cha~e |                                                     0.251***
0.080
a_cons_num~k |
0.228***                                       -0.000
a_cons_lon~e |
0.328***                      0.156
a_cons_hil~e |
0.498***        0.430***
-------------+------------------------------------------------------------------
-----------------------------------------------------
cut1         |
       _cons |    -1.448          -0.745          -0.691          -0.860
-0.433          -0.380           0.436           1.856*
-------------+------------------------------------------------------------------
-----------------------------------------------------
cut2         |
       _cons |    -0.884          -0.160          -0.082          -0.278
0.145           0.213           1.113           2.590**
-------------+------------------------------------------------------------------
-----------------------------------------------------
cut3         |
       _cons |    -0.101           0.666           0.754           0.530
0.939           1.018           2.008**         3.569***
-------------+------------------------------------------------------------------
-----------------------------------------------------
cut4         |
       _cons |     0.730           1.562*          1.617*          1.386
1.789*          1.884*          2.913***        4.572***
-------------+------------------------------------------------------------------
-----------------------------------------------------
Statistics   |
          ll |  -273.555        -264.137        -264.243        -268.329
-269.868        -266.358        -252.672        -237.697
-------------------------------------------------------------------------------
-----------------------------------------------------
                  legend: * p<.1; ** p<.05; *** p<.01
```

[70]:
```
estimates table base_o model1o model2o model3o  model4o  model5o model6o␣
↪model7oall ,  eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
-------------------------------------
    Variable |   base_o      model1o      model2o      model3o      model4o
model5o      model6o     model7oall
-------------+-----------------------------------------------------------------
-------------------------------------
#1           |
         age |  .01931584    .04762013      .021909    .00238964    .04489453
-.0268341   -.06591898   -.06630475
      gender |  .22524268    .15162658    .33988202    .24593281    .17416492
.24319121    .30722824    .29254068
    marriage | -.00518517    -.0357915   -.02821881    -.0584164    .00594536
.04982013   -.08608036    -.0980792
    student1 | -1.0876077   -.98236959   -1.1491046   -1.2561791    -1.193501
-1.072238   -.93151594   -.98771761
company_man2 | -.17925718   -.20916816   -.24157777   -.34164718   -.29820344
-.31083913    .28741291    .06473394
public_off~3 | -.05519985   -.16362293    .02808528   -.13017316   -.13556671
-.03615563    .07210759    .00455559
 profession4 | -.75915684   -.70842602   -.52912746   -.74906254   -.68051473
-.47385054   -.62922454   -.35402479
 researcher5 |  .03031939   -.10759937   -.13802421   -.19281267   -.15802337
.10321843   -.05014364   -.27315223
       learn |  .12322839    .03007768    .02087821    .13484143    .17444937
.09910772    .20871237    .03464914
      income | -.03046471   -.04232575   -.04501419   -.05281998   -.03936051
-.0534327   -.01695262   -.04857266
avg_distance | -.03887482   -.07696537   -.05903678    .00290349   -.03941547
-.03234428    .05624621    .00890972
 freq_use_ev |  .05695547    .10139264    .07446404    .01899047    .07209738
.0840561    .03810844    .09277928
 club_kepco2 | -.35066103   -.37699331   -.29345693   -.29784633   -.35399262
-.36226834   -.23881715    -.2301891
  club_jeju3 |  .73249362    .35704843    .27076168    .61913558    .62893666
.42551463    .71213089   -.04281702
    ev_owner | -.21926494   -.33391941   -.32256965   -.33813331   -.22821239
-.35790231   -.16254016   -.47817443
 saving_free |  -.6457005   -.66942442   -.61248779   -.58932363    -.687157
-.72048546    -.4865719    -.5358841
a_cons_sho~s |               .34245675
.30757732
   a_cons_as |                           .33536547
.19394017
```

```
a_cons_cha~e |                                                .25107935
.07990801
a_cons_num~k |                                                            .22792597
-.00042259
a_cons_lon~e |
.32827659                  .15612519
a_cons_hil~e |
.49846041    .42965459
-------------+------------------------------------------------------------------
-------------------------------------
cut1         |
       _cons | -1.4476137   -.74511417   -.69101794   -.86047163   -.43276049
-.37965148    .43572436    1.8559778
-------------+------------------------------------------------------------------
-------------------------------------
cut2         |
       _cons | -.88351139   -.16016089   -.08189691   -.27765485     .1445232
.21289663    1.1127471    2.5903082
-------------+------------------------------------------------------------------
-------------------------------------
cut3         |
       _cons | -.10098429    .66649034    .75403157    .52972609    .93948554
1.0181472    2.0084716    3.5691829
-------------+------------------------------------------------------------------
-------------------------------------
cut4         |
       _cons |  .73020895    1.5616102     1.617034     1.385753    1.7887609
1.8837738    2.9134369    4.5718796
-------------+------------------------------------------------------------------
-------------------------------------
Statistics   |
          ll |  -273.5551   -264.13723   -264.24296   -268.32914     -269.868
-266.35774    -252.6716   -237.69745
-------------------------------------------------------------------------------
-------------------------------------
```

[71]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free
estimates store base_og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -281.98862
Iteration 2:   log likelihood = -281.98369
Iteration 3:   log likelihood = -281.98369
```

```
Ordered probit regression                       Number of obs     =        184
                                                LR chi2(16)       =      17.05
                                                Prob > chi2       =     0.3821
Log likelihood = -281.98369                     Pseudo R2         =     0.0294

------------------------------------------------------------------------------
     g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
            age |   .0437017    .132008     0.33   0.741    -.2150292   .3024326
         gender |   .1803827    .240235     0.75   0.453    -.2904692   .6512346
       marriage |   .1937332   .2120611     0.91   0.361    -.2218989   .6093654
       student1 |  -.0772974   .4839806    -0.16   0.873    -1.025882   .8712871
   company_man2 |   -.100128   .5580366    -0.18   0.858     -1.19386   .9936037
public_officer3 |   .0834866   .3421922     0.24   0.807    -.5871977   .7541709
    profession4 |   .1637346   .4621727     0.35   0.723    -.7421072   1.069576
    researcher5 |   .5894388   .4101415     1.44   0.151    -.2144237   1.393301
          learn |   .0504236   .1837495     0.27   0.784    -.3097188    .410566
         income |   .0305814   .0685303     0.45   0.655    -.1037355   .1648982
   avg_distance |  -.0176234   .0603705    -0.29   0.770    -.1359474   .1007005
    freq_use_ev |    .072824   .0785466     0.93   0.354    -.0811245   .2267726
    club_kepco2 |  -.2332887   .2060179    -1.13   0.257    -.6370763    .170499
     club_jeju3 |    .144908   .3830321     0.38   0.705    -.6058211   .8956371
       ev_owner |  -.0121167   .2766422    -0.04   0.965    -.5543256   .5300921
    saving_free |  -.4379502   .2743795    -1.60   0.110     -.975724   .0998237
----------------+-------------------------------------------------------------
          /cut1 |  -1.866047   .9235925                     -3.676255  -.0558394
          /cut2 |  -1.472945   .9040714                     -3.244892
```

```
.2990026
          /cut3 |  -.8162868   .8961634                     -2.572735
.9401611
          /cut4 |   .0778201   .8949047                     -1.676161
1.831801
          /cut5 |   1.258773   .8968726                     -.4990647
3.016611
          /cut6 |   1.816217   .9026751                      .0470068
3.585428
          /cut7 |   2.817406   .9425872                      .9699686
4.664842
          /cut8 |   3.090539   .9771429                      1.175374
5.005704
------------------------------------------------------------------------------
-
```

[73]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free g_cons_short_dis
estimates store model1og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -276.19517
Iteration 2:   log likelihood = -276.17612
Iteration 3:   log likelihood = -276.17612

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      28.67
                                                Prob > chi2       =     0.0377
Log likelihood = -276.17612                     Pseudo R2         =     0.0493

------------------------------------------------------------------------------
--
      g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-----------------+------------------------------------------------------------
--
             age |   .0233628   .1325138     0.18   0.860    -.2363595
.2830851
          gender |   .1614849   .2409547     0.67   0.503    -.3107776
.6337474
        marriage |   .1755992   .2126573     0.83   0.409    -.2412015
.5923998
        student1 |  -.0369137   .4858007    -0.08   0.939    -.9890657
.9152382
```

```
    company_man2 |  -.1510718   .5591581    -0.27   0.787    -1.247001
.9448579
 public_officer3 |    .071331   .3434972     0.21   0.835    -.6019111
.7445731
     profession4 |   .2224443   .4640421     0.48   0.632    -.6870614
1.13195
     researcher5 |   .6023998   .4116524     1.46   0.143    -.2044241
1.409224
           learn |   .0370491   .1844005     0.20   0.841    -.3243692
.3984674
          income |    .020359   .0688044     0.30   0.767    -.1144951
.1552131
    avg_distance |  -.0271392   .0606189    -0.45   0.654    -.1459501
.0916717
     freq_use_ev |   .0712947   .0787715     0.91   0.365    -.0830947
.2256841
     club_kepco2 |   -.212024   .2066766    -1.03   0.305    -.6171027
.1930548
      club_jeju3 |   .1124953   .3843679     0.29   0.770    -.6408519
.8658426
        ev_owner |  -.0965494   .2784743    -0.35   0.729     -.642349
.4492503
     saving_free |  -.3076673   .2777938    -1.11   0.268    -.8521331
.2367984
g_cons_short_dis |   .2574198   .0757376     3.40   0.001     .1089768
.4058628
-----------------+------------------------------------------------------------
--
           /cut1 |  -2.084285   .9322803                     -3.911521
-.2570493
           /cut2 |  -1.658324   .9089619                     -3.439856
.1232087
           /cut3 |  -.9713628   .8998753                     -2.735086
.7923604
           /cut4 |  -.0484751   .8986197                     -1.809737
1.712787
           /cut5 |    1.17038   .9000479                     -.5936813
2.934442
           /cut6 |   1.743549   .9058353                     -.0318554
3.518954
           /cut7 |   2.794846   .9501896                       .932509
4.657184
           /cut8 |    3.08362   .9867095                      1.149705
5.017535
------------------------------------------------------------------------------
--
```

[74]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free g_cons_as
estimates store model2og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -277.26696
Iteration 2:   log likelihood = -277.25024
Iteration 3:   log likelihood = -277.25023

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      26.52
                                                Prob > chi2       =     0.0655
Log likelihood = -277.25023                     Pseudo R2         =     0.0456

------------------------------------------------------------------------------
-
     g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
----------------+-------------------------------------------------------------
-
            age |   .0256869    .132397     0.19   0.846    -.2338065
.2851803
         gender |   .2257452   .2412034     0.94   0.349    -.2470048
.6984952
       marriage |   .1712495   .2125184     0.81   0.420    -.2452789
.5877778
       student1 |   .0177373   .4858183     0.04   0.971    -.9344491
.9699236
   company_man2 |  -.0739677     .55826    -0.13   0.895    -1.168137
1.020202
public_officer3 |   .1639354   .3437483     0.48   0.633    -.5097988
.8376696
    profession4 |   .2713891   .4644199     0.58   0.559    -.6388571
1.181635
    researcher5 |   .5427502    .411376     1.32   0.187    -.2635318
1.349032
          learn |   .0496974   .1840596     0.27   0.787    -.3110529
.4104477
         income |   .0326248    .068707     0.47   0.635    -.1020384
.167288
   avg_distance |  -.0170717   .0604729    -0.28   0.778    -.1355965
.1014531
    freq_use_ev |   .0532053    .078959     0.67   0.500    -.1015516
.2079622
```

```
    club_kepco2 |  -.2129535   .2065757    -1.03   0.303    -.6178344
.1919274
     club_jeju3 |   .0282576   .3856689     0.07   0.942    -.7276395
.7841547
       ev_owner |  -.0827272   .2780833    -0.30   0.766    -.6277605
.4623061
    saving_free |  -.3993569   .2753477    -1.45   0.147    -.9390285
.1403147
      g_cons_as |   .2231996   .0727058     3.07   0.002     .0806989
.3657003
----------------+----------------------------------------------------------------
-
          /cut1 |   -1.99959   .9277135                     -3.817876
-.1813054
          /cut2 |  -1.592593   .9074793                      -3.37122
.1860336
          /cut3 |  -.8993122   .8981788                      -2.65971
.8610859
          /cut4 |   .0162535   .8963437                     -1.740548
1.773055
          /cut5 |   1.215031    .898695                     -.5463787
2.976441
          /cut6 |   1.788381   .9045115                      .0155712
3.561191
          /cut7 |   2.876025   .9512544                        1.0116
4.740449
          /cut8 |     3.1971    .997032                      1.242953
5.151247
------------------------------------------------------------------------------
-
```

[75]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free g_cons_charge_fee
estimates store model3og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -281.60748
Iteration 2:   log likelihood = -281.60222
Iteration 3:   log likelihood = -281.60222

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      17.82
                                                Prob > chi2       =     0.4005
Log likelihood = -281.60222                     Pseudo R2         =     0.0307
```

```
------------------------------------------------------------------------------
---
       g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
------------------+-----------------------------------------------------------
---
              age |   .0333336   .1325544     0.25   0.801    -.2264684
.2931355
           gender |   .1736156   .2403609     0.72   0.470    -.2974831
.6447143
         marriage |   .2028203   .2123262     0.96   0.339    -.2133314
.618972
         student1 |  -.1253719   .4872223    -0.26   0.797     -1.08031
.8295663
     company_man2 |  -.2059525   .5708089    -0.36   0.718    -1.324717
.9128124
  public_officer3 |   .0372885   .3463509     0.11   0.914    -.6415467
.7161238
      profession4 |   .1549767   .4623968     0.34   0.738    -.7513043
1.061258
      researcher5 |   .5379077   .4144226     1.30   0.194    -.2743458
1.350161
            learn |   .0500996   .1837796     0.27   0.785    -.3101017
.4103009
           income |   .0268263   .0686755     0.39   0.696    -.1077752
.1614278
     avg_distance |  -.0088068   .0612106    -0.14   0.886    -.1287774
.1111638
      freq_use_ev |   .0566936   .0806836     0.70   0.482    -.1014433
.2148305
      club_kepco2 |  -.2341128   .2060376    -1.14   0.256     -.637939
.1697135
       club_jeju3 |   .1359355   .3831781     0.35   0.723    -.6150798
.8869507
         ev_owner |  -.0386112   .2783307    -0.14   0.890    -.5841294
.5069071
      saving_free |   -.428008   .2746421    -1.56   0.119    -.9662965
.1102806
g_cons_charge_fee |   .0697634   .0798793     0.87   0.382     -.086797
.2263239
------------------+-----------------------------------------------------------
---
            /cut1 |  -1.999927    .937018                      -3.836449
-.1634056
            /cut2 |   -1.60146   .9163329                      -3.397439
.19452
            /cut3 |   -.934768   .9065348                      -2.711544
```

```
.8420077
            /cut4 |  -.0350947   .9043955                     -1.807677
1.737488
            /cut5 |   1.144384   .9064321                     -.6321906
2.920958
            /cut6 |   1.699999    .912441                     -.0883523
3.488351
            /cut7 |   2.702244   .9522185                      .8359305
4.568558
            /cut8 |   2.978649   .9865867                      1.044974
4.912323
------------------------------------------------------------------------------
---
```

[76]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
 ↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
 ↪club_jeju3 ev_owner saving_free g_cons_num_charge_lack
estimates store model4og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -278.42005
Iteration 2:   log likelihood = -278.40832
Iteration 3:   log likelihood = -278.40832

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      24.20
                                                Prob > chi2       =     0.1140
Log likelihood = -278.40832                     Pseudo R2         =     0.0417

------------------------------------------------------------------------------
--------
            g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-----------------------+------------------------------------------------------
--------
                   age |   .0736468   .1326842     0.56   0.579    -.1864095
.3337031
                gender |   .0756476   .2437321     0.31   0.756    -.4020585
.5533536
              marriage |   .1688294   .2125745     0.79   0.427    -.2478089
.5854678
              student1 |  -.1832991   .4866252    -0.38   0.706    -1.137067
.7704688
          company_man2 |  -.1784844   .5591134    -0.32   0.750    -1.274326
.9173577
```

```
       public_officer3 |   .0242818   .3436121     0.07   0.944    -.6491856
.6977492
          profession4 |   .2285803   .4636158     0.49   0.622    -.6800901
1.137251
          researcher5 |   .4299619   .4151898     1.04   0.300     -.383795
1.243719
                learn |   .1483004   .1877352     0.79   0.430    -.2196537
.5162546
               income |    .017699   .0688207     0.26   0.797    -.1171871
.1525852
         avg_distance |  -.0093561   .0605556    -0.15   0.877    -.1280429
.1093307
          freq_use_ev |   .0740065   .0786922     0.94   0.347    -.0802274
.2282405
          club_kepco2 |  -.2661688   .2066897    -1.29   0.198    -.6712732
.1389356
           club_jeju3 |  -.0373259   .3896803    -0.10   0.924    -.8010853
.7264336
             ev_owner |  -.0701437   .2779341    -0.25   0.801    -.6148846
.4745972
          saving_free |  -.4658091    .274932    -1.69   0.090    -1.004666
.0730477
g_cons_num_charge_lack |   .2342547   .0877389     2.67   0.008     .0622898
.4062197
-----------------------+------------------------------------------------------
--------
               /cut1 |  -1.824273   .9280611                     -3.643239
-.0053062
               /cut2 |  -1.406272   .9065616                      -3.1831
.3705561
               /cut3 |  -.7236886   .8983189                     -2.484361
1.036984
               /cut4 |   .1899502   .8976471                     -1.569406
1.949306
               /cut5 |   1.393848   .9001853                     -.3704824
3.158179
               /cut6 |   1.960236   .9062045                      .1841078
3.736364
               /cut7 |   2.964643   .9462947                      1.109939
4.819347
               /cut8 |    3.23909   .9809626                      1.316439
5.161742
------------------------------------------------------------------------------
--------
```

[77]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free g_cons_long_charge_time
estimates store model5og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -269.43945
Iteration 2:   log likelihood = -269.33981
Iteration 3:   log likelihood = -269.33913
Iteration 4:   log likelihood = -269.33913

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      42.34
                                                Prob > chi2       =     0.0006
Log likelihood = -269.33913                     Pseudo R2         =     0.0729

------------------------------------------------------------------------------
             g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
-------------------------+----------------------------------------------------
                    age |  -.0374585   .1337118    -0.28   0.779    -.2995287
.2246117
                 gender |    .208573   .2416326     0.86   0.388    -.2650182
.6821642
               marriage |   .2144949   .2131068     1.01   0.314    -.2031868
.6321766
               student1 |   .0122879   .4868429     0.03   0.980    -.9419066
.9664824
           company_man2 |  -.1930681   .5620472    -0.34   0.731     -1.29466
.9085241
         public_officer3 |   .1794815   .3445897     0.52   0.602    -.4959019
.8548649
            profession4 |   .4612043    .468745     0.98   0.325    -.4575189
1.379928
            researcher5 |   .8143469   .4160088     1.96   0.050    -.0010154
1.629709
                  learn |   .1227056   .1854075     0.66   0.508    -.2406864
.4860975
                 income |  -.0042678   .0693404    -0.06   0.951    -.1401726
.131637
           avg_distance |   .0015685   .0608767     0.03   0.979    -.1177477
.1208847
            freq_use_ev |   .0740401   .0789754     0.94   0.348    -.0807488
```

```
.2288291
            club_kepco2 |  -.2663775   .2078455    -1.28   0.200    -.6737473
.1409922
             club_jeju3 |  -.0426062   .3875039    -0.11   0.912       -.8021
.7168875
              ev_owner |  -.0732953   .2781801    -0.26   0.792    -.6185183
.4719277
            saving_free |  -.4968767   .2766002    -1.80   0.072    -1.039003
.0452497
g_cons_long_charge_time |   .4131442   .0830917     4.97   0.000     .2502873
.576001
------------------------+----------------------------------------------------
---------
                  /cut1 |  -2.082946   .9399217                     -3.925159
-.2407337
                  /cut2 |  -1.604773   .9113448                     -3.390976
.1814299
                  /cut3 |  -.8766474   .9013164                     -2.643195
.8899002
                  /cut4 |   .0611246   .9003939                     -1.703615
1.825864
                  /cut5 |   1.295377   .9025443                     -.4735778
3.064331
                  /cut6 |   1.902696   .9093115                      .1204785
3.684914
                  /cut7 |   3.165179   .9775288                      1.249258
5.0811
                  /cut8 |   3.640006    1.06342                      1.555741
5.72427
------------------------------------------------------------------------------
---------
```

[78]:
```
oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
↪club_jeju3 ev_owner saving_free g_cons_hill_ride
estimates store model6og
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -250.76345
Iteration 2:   log likelihood = -250.28754
Iteration 3:   log likelihood =  -250.2838
Iteration 4:   log likelihood = -250.28379

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(17)       =      80.45
```

```
                                                Prob > chi2       =     0.0000
Log likelihood = -250.28379                     Pseudo R2         =     0.1385

------------------------------------------------------------------------------
      g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----------------+------------------------------------------------------------------
             age |   -.166436   .1370399    -1.21   0.225    -.4350293    .1021572
          gender |   .3406769   .2452827     1.39   0.165    -.1400684    .8214221
        marriage |   .0972822   .2155191     0.45   0.652    -.3251276    .5196919
        student1 |   .0529926   .4929275     0.11   0.914    -.9131275    1.019113
    company_man2 |   -.240538   .5709077    -0.42   0.674    -1.359497    .8784205
 public_officer3 |   .1349414   .3486273     0.39   0.699    -.5483556    .8182384
     profession4 |   .5002086   .4724451     1.06   0.290    -.4257667    1.426184
     researcher5 |   .4345636   .4188441     1.04   0.299    -.3863557    1.255483
           learn |    .082209   .1868206     0.44   0.660    -.2839527    .4483706
          income |   .0516119   .0699132     0.74   0.460    -.0854155    .1886393
    avg_distance |   .0234862   .0616217     0.38   0.703    -.0972902    .1442626
     freq_use_ev |   .0588335   .0798214     0.74   0.461    -.0976135    .2152805
     club_kepco2 |   -.286561   .2101222    -1.36   0.173    -.6983929    .125271
      club_jeju3 |   .0187442   .3897556     0.05   0.962    -.7451627    .7826511
        ev_owner |   .0573311   .2807418     0.20   0.838    -.4929127    .607575
     saving_free |  -.3182444   .2796073    -1.14   0.255    -.8662647    .2297758
g_cons_hill_ride |   .6008113   .0777293     7.73   0.000     .4484646    .753158
-----------------+------------------------------------------------------------------
           /cut1 |  -2.791703   .9668423                     -4.686679   -.8967266
           /cut2 |   -2.21897   .9288826                     -4.039546
```

```
-.3983931
           /cut3 |  -1.347329   .9131543                     -3.137078
.4424207
           /cut4 |  -.2735129   .9114245                     -2.059872
1.512846
           /cut5 |   1.066547   .9111876                     -.7193478
2.852442
           /cut6 |   1.716376   .9184334                     -.0837206
3.516472
           /cut7 |   3.214385   1.006257                      1.242158
5.186612
           /cut8 |   3.782101    1.10957                      1.607385
5.956818
------------------------------------------------------------------------------
--
```

[79]:
```
** order all

oprobit g_cons_hac age gender marriage student1 company_man2 public_officer3␣
 ↪profession4 researcher5 learn income avg_distance freq_use_ev club_kepco2␣
 ↪club_jeju3 ev_owner saving_free g_cons_short_dis g_cons_as g_cons_charge_fee␣
 ↪g_cons_num_charge_lack g_cons_long_charge_time g_cons_hill_ride
estimates store model7oallg
```

```
Iteration 0:   log likelihood = -290.51059
Iteration 1:   log likelihood = -244.98002
Iteration 2:   log likelihood = -244.27779
Iteration 3:   log likelihood = -244.26825
Iteration 4:   log likelihood = -244.26824

Ordered probit regression                       Number of obs     =        184
                                                LR chi2(22)       =      92.48
                                                Prob > chi2       =     0.0000
Log likelihood = -244.26824                     Pseudo R2         =     0.1592

------------------------------------------------------------------------------
---------
             g_cons_hac |      Coef.   Std. Err.      z    P>|z|     [95% Conf.
Interval]
------------------------+-----------------------------------------------------
---------
                    age |  -.1564773    .139277    -1.12   0.261    -.4294552
.1165007
                 gender |     .29795   .2504538     1.19   0.234    -.1929304
.7888304
```

```
              marriage |   .0770572   .2171424     0.35   0.723    -.3485342
.5026486
              student1 |   .1581632   .5022378     0.31   0.753    -.8262048
1.142531
          company_man2 |   -.140821   .5852016    -0.24   0.810    -1.287795
1.006153
        public_officer3 |   .2436798   .3582616     0.68   0.496    -.4585001
.9458596
           profession4 |    .702814   .4798597     1.46   0.143    -.2376937
1.643322
           researcher5 |   .5595411   .4405156     1.27   0.204    -.3038536
1.422936
                 learn |   .1515685   .1926182     0.79   0.431    -.2259563
.5290933
                income |   .0331917   .0707362     0.47   0.639    -.1054487
.1718321
          avg_distance |   .0128603   .0629483     0.20   0.838    -.1105162
.1362368
           freq_use_ev |   .0815134   .0831244     0.98   0.327    -.0814076
.2444343
           club_kepco2 |  -.3010651   .2122634    -1.42   0.156    -.7170936
.1149635
            club_jeju3 |  -.1835608   .4006507    -0.46   0.647    -.9688218
.6017002
              ev_owner |  -.0246126   .2858983    -0.09   0.931    -.5849631
.5357378
           saving_free |  -.3190206   .2869317    -1.11   0.266    -.8813964
.2433552
      g_cons_short_dis |   .1098097    .087166     1.26   0.208    -.0610326
.280652
             g_cons_as |   .0802931   .0770484     1.04   0.297    -.0707189
.2313052
     g_cons_charge_fee |  -.1132949   .0895781    -1.26   0.206    -.2888648
.062275
 g_cons_num_charge_lack |   .1188064    .099693     1.19   0.233    -.0765883
.3142011
g_cons_long_charge_time |   .1735837   .1050658     1.65   0.099    -.0323416
.3795089
      g_cons_hill_ride |   .5229743   .0850001     6.15   0.000     .3563771
.6895715
-------------------------+----------------------------------------------------
---------
                 /cut1 |  -2.694022   .9947483                     -4.643693
-.7443509
                 /cut2 |  -2.059139    .950268                      -3.92163
-.1966481
                 /cut3 |  -1.151565   .9316378                     -2.977542
.6744113
```

```
                /cut4 |  -.0592914   .9296157                     -1.881305
1.762722
                /cut5 |   1.320082   .9313976                     -.5054234
3.145588
                /cut6 |   2.003516   .9407673                      .1596463
3.847386
                /cut7 |   3.658138   1.055081                      1.590218
5.726058
                /cut8 |    4.39446   1.203941                      2.034779
6.754141
------------------------------------------------------------------------------
---------
```

[80]:
```
*** ordered one table
estimates table base_og model1og  model2og model3og model4og  model5og model6og␣
↪model7oallg, b(%9.3f) star(0.01, 0.05, 0.1) eq(1) stats(ll)
```

```
------------------------------------------------------------------------------
-----------------------------------------------------
    Variable |   base_og        model1og       model2og       model3og
model4og       model5og       model6og     model7oallg
-------------+----------------------------------------------------------------
-----------------------------------------------------
#1           |
         age |     0.044          0.023          0.026          0.033
0.074         -0.037         -0.166         -0.156
      gender |     0.180          0.161          0.226          0.174
0.076          0.209          0.341          0.298
    marriage |     0.194          0.176          0.171          0.203
0.169          0.214          0.097          0.077
    student1 |    -0.077         -0.037          0.018         -0.125
-0.183          0.012          0.053          0.158
company_man2 |    -0.100         -0.151         -0.074         -0.206
-0.178         -0.193         -0.241         -0.141
public_off~3 |     0.083          0.071          0.164          0.037
0.024          0.179          0.135          0.244
 profession4 |     0.164          0.222          0.271          0.155
0.229          0.461          0.500          0.703
 researcher5 |     0.589          0.602          0.543          0.538
0.430          0.814*         0.435          0.560
       learn |     0.050          0.037          0.050          0.050
0.148          0.123          0.082          0.152
      income |     0.031          0.020          0.033          0.027
0.018         -0.004          0.052          0.033
avg_distance |    -0.018         -0.027         -0.017         -0.009
-0.009          0.002          0.023          0.013
```

```
 freq_use_ev |     0.073          0.071          0.053          0.057
0.074          0.074          0.059          0.082
 club_kepco2 |    -0.233         -0.212         -0.213         -0.234
-0.266         -0.266         -0.287         -0.301
  club_jeju3 |     0.145          0.112          0.028          0.136
-0.037         -0.043          0.019         -0.184
    ev_owner |    -0.012         -0.097         -0.083         -0.039
-0.070         -0.073          0.057         -0.025
 saving_free |    -0.438         -0.308         -0.399         -0.428
-0.466*        -0.497*        -0.318         -0.319
g_cons_sho~s |                    0.257***
0.110
   g_cons_as |                                    0.223***
0.080
g_cons_cha~e |                                                   0.070
-0.113
g_cons_num~k |
0.234***                                    0.119
g_cons_lon~e |
0.413***                    0.174*
g_cons_hil~e |
0.601***       0.523***
-------------+------------------------------------------------------------------
-------------------------------------------------
cut1         |
       _cons |    -1.866**       -2.084**       -2.000**       -2.000**
-1.824**       -2.083**       -2.792***      -2.694***
-------------+------------------------------------------------------------------
-------------------------------------------------
cut2         |
       _cons |    -1.473         -1.658*        -1.593*        -1.601*
-1.406         -1.605*        -2.219**       -2.059**
-------------+------------------------------------------------------------------
-------------------------------------------------
cut3         |
       _cons |    -0.816         -0.971         -0.899         -0.935
-0.724         -0.877         -1.347         -1.152
-------------+------------------------------------------------------------------
-------------------------------------------------
cut4         |
       _cons |     0.078         -0.048          0.016         -0.035
0.190          0.061         -0.274         -0.059
-------------+------------------------------------------------------------------
-------------------------------------------------
cut5         |
       _cons |     1.259          1.170          1.215          1.144
1.394          1.295          1.067          1.320
-------------+------------------------------------------------------------------
```

```
-------------------------------------------------------
cut6            |
       _cons    |     1.816**        1.744*          1.788**        1.700*
1.960**         1.903**         1.716*          2.004**
----------------+--------------------------------------------------------------
-------------------------------------------------------
cut7            |
       _cons    |     2.817***       2.795***        2.876***       2.702***
2.965***        3.165***        3.214***        3.658***
----------------+--------------------------------------------------------------
-------------------------------------------------------
cut8            |
       _cons    |     3.091***       3.084***        3.197***       2.979***
3.239***        3.640***        3.782***        4.394***
----------------+--------------------------------------------------------------
-------------------------------------------------------
Statistics      |
          ll    |  -281.984       -276.176        -277.250       -281.602
-278.408        -269.339        -250.284        -244.268
-------------------------------------------------------------------------------
-------------------------------------------------------
                  legend: * p<.1; ** p<.05; *** p<.01
```

[82]:
```
estimates table base_og model1og model2og model3og  model4og  model5og model6og␣
↪model7oallg , eq(1) stats(ll)
```

```
-------------------------------------------------------------------------------
-------------------------------------
    Variable |  base_og      model1og     model2og     model3og     model4og
model5og     model6og    model7oa~g
-------------+-----------------------------------------------------------------
-------------------------------------
#1           |
         age |  .04370171    .02336282    .02568689    .03333355     .0736468
-.03745849   -.16643604   -.15647727
      gender |  .18038271    .16148489    .22574517    .17361561    .07564757
.20857303    .34067685    .29795002
    marriage |  .19373323    .17559916    .17124946    .20282031    .16882944
.21449492    .09728216     .0770572
    student1 |  -.0772974   -.03691373    .01773725   -.12537193   -.18329909
.01228794    .05299255    .15816321
company_man2 | -.10012799   -.15107179   -.07396768   -.20595255   -.17848439
-.19306812   -.24053803   -.14082099
public_off~3 |  .08348661    .07133099    .16393542    .03728854    .02428183
.17948148    .13494141    .24367977
 profession4 |  .16373457    .22244433    .27138914    .15497671    .22858025
.46120435    .50020859    .70281403
```

```
 researcher5 |   .5894388    .60239976    .54275023    .53790767    .42996194
.81434692     .4345636    .55954115
       learn |  .05042361    .03704914     .0496974    .05009963    .14830042
.12270555    .08220896    .15156854
      income |  .03058138    .02035902    .03262478    .02682629    .01769903
-.00426782    .05161191    .03319172
avg_distance | -.01762344    -.0271392   -.01707168   -.00880679    -.0093561
.00156851     .0234862    .01286031
 freq_use_ev |  .07282404    .07129468    .05320529    .05669362    .07400654
.07404013     .0588335    .08151336
 club_kepco2 | -.23328867   -.21202397   -.21295347   -.23411275   -.26616883
-.26637751   -.28656097   -.30106505
  club_jeju3 |  .14490801    .11249533    .02825762    .13593547   -.03732587
-.04260622    .01874421   -.18356077
    ev_owner | -.01211675   -.09654937   -.08272724   -.03861118   -.07014371
-.07329532    .05733112   -.02461265
 saving_free | -.43795017   -.30766732   -.39935689   -.42800795   -.46580911
-.4968767   -.31824444   -.31902061
g_cons_sho~s |               .25741979
.10980972
   g_cons_as |                            .22319959
.08029314
g_cons_cha~e |                                         .06976343
-.11329489
g_cons_num~k |                                                      .23425474
.11880638
g_cons_lon~e |
.41314417                 .17358365
g_cons_hil~e |
.6008113    .52297432
-------------+------------------------------------------------------------------
-------------------------------------
cut1         |
       _cons | -1.8660474   -2.0842851   -1.9995905   -1.9999272   -1.8242725
-2.0829463   -2.7917027   -2.6940218
-------------+------------------------------------------------------------------
-------------------------------------
cut2         |
       _cons | -1.4729447   -1.6583238    -1.592593   -1.6014596   -1.4062719
-1.6047731   -2.2189695   -2.0591391
-------------+------------------------------------------------------------------
-------------------------------------
cut3         |
       _cons | -.81628685   -.97136282   -.89931219   -.93476799   -.72368855
-.87664743   -1.3473288   -1.1515652
-------------+------------------------------------------------------------------
-------------------------------------
cut4         |
```

```
       _cons |   .0778201   -.04847506    .01625349    -.0350947    .18995017
.06112461   -.27351288   -.05929137
-------------+------------------------------------------------------------------
-------------------------------------
cut5         |
       _cons |  1.2587733    1.1703801    1.2150313    1.1443836    1.3938484
1.2953765    1.0665471    1.3200824
-------------+------------------------------------------------------------------
-------------------------------------
cut6         |
       _cons |  1.8162174    1.7435492    1.7883813    1.6999993     1.960236
1.9026963    1.7163757    2.0035163
-------------+------------------------------------------------------------------
-------------------------------------
cut7         |
       _cons |  2.8174055    2.7948464    2.8760246    2.7022443    2.9646431
3.1651789    3.2143852    3.6581378
-------------+------------------------------------------------------------------
-------------------------------------
cut8         |
       _cons |  3.0905391    3.0836199    3.1971002    2.9786487    3.2390902
3.6400058    3.7821015    4.3944596
-------------+------------------------------------------------------------------
-------------------------------------
Statistics   |
          ll | -281.98369   -276.17612   -277.25023   -281.60222   -278.40832
-269.33913   -250.28379   -244.26824
-------------------------------------------------------------------------------
-------------------------------------
```

0.1 #### a_cons_hac

[83]:
```
tab a_cons_hac
```

```
 a_cons_hac |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |         26       14.13       14.13
          2 |         27       14.67       28.80
          3 |         51       27.72       56.52
          4 |         47       25.54       82.07
          5 |         33       17.93      100.00
------------+-----------------------------------
      Total |        184      100.00
```

[84]:
```
tab b_cons_hac
```

```
 b_cons_hac |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |         11        5.98        5.98
          2 |         25       13.59       19.57
          3 |         58       31.52       51.09
          4 |         51       27.72       78.80
          5 |         39       21.20      100.00
------------+-----------------------------------
      Total |        184      100.00
```

[85]:
```
tab g_cons_hac
```

```
 g_cons_hac |      Freq.     Percent        Cum.
------------+-----------------------------------
         -4 |          3        1.63        1.63
         -3 |          4        2.17        3.80
         -2 |         16        8.70       12.50
         -1 |         48       26.09       38.59
          0 |         76       41.30       79.89
          1 |         21       11.41       91.30
          2 |         14        7.61       98.91
          3 |          1        0.54       99.46
          4 |          1        0.54      100.00
------------+-----------------------------------
      Total |        184      100.00
```

[ ]:
```
# Need to do more post analysis
```

1 The following Part is the practice code

- For standard error check

[86]:
```
eststo clear
eststo: qui logit y age
eststo: qui logit y age marriage
eststo: qui logit y age marriage student1
```

```
(est1 stored)

(est2 stored)

(est3 stored)
```

[87]:
```
%html
esttab, label title("table") html
```

```
This front-end or document format cannot display HTML
```

[88]:
```
esttab, label title("table")
```

```
table
------------------------------------------------------------------------
                              (1)             (2)             (3)
                                y               y               y
------------------------------------------------------------------------
y
age                         0.233           0.151           0.145
                           (1.21)          (0.64)          (0.61)

marriage                                   -0.225          -0.228
                                          (-0.58)         (-0.59)

student1                                                    0.204
                                                           (0.29)

Constant                   0.0455           0.324           0.330
                           (0.10)          (0.49)          (0.49)
------------------------------------------------------------------------
Observations                  184             184             184
------------------------------------------------------------------------
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
```

[ ]:
```
#
```