```
1
2
    log using 506 ERLT.log, text replace
3
   *Import data*
4
5
    cd "/Users/guhanxi/Desktop/AEE/Field Experiment/Project/Data"
6
    import delimited "506+project+C.csv", clear
7
    save "506+project+C.dta", replace
8
9
    import delimited "506+project+T1.csv", clear
10
    save "506+project+T1.dta", replace
11
12
    import delimited "506+project+T2.csv", clear
13
    save "506+project+T2.dta", replace
14
15
    import delimited "506+project+T3.csv", clear
16
    save "506+project+T3.dta", replace
17
18
   *Append datasets*
19
20
   use "506+project+C.dta", clear
21
    append using "506+project+T1.dta" "506+project+T2.dta"
22
    "506+project+T3.dta"
    save "506+project+merged.dta", replace
23
24
25
    use 506+project+merged.dta, clear
26
27
   *Encode categorical data*
28
   encode group, generate(group_code)
29
   encode preference, generate(pref code)
30
   encode degree, generate(degree code)
31
   encode os_frequency, generate(osf_code)
32
   encode gender, generate(gender code)
33
   encode age, generate(age code)
34
35
36
   * Recode the string variable
37
38
    recode group code 1=0 2=1 3=2 4=3
39
    recode pref code 3=0 1=1 2=2 4=3
40
    recode degree code 1=0 6=1 3=2 5=3 2=4 4=5
41
    recode osf code 5=0 6=4
42
    recode gender code 1=0 2=1 3=2
43
    recode age code 1=0 2=1 3=2 4=3 5=4 6=5 7=6
44
    recode age_code 0=18 1=19 2=20 3=21 4=22 5=23 6=24
45
46
47
    **
```

```
drop preference reason gender age degree usc email os frequency
48
   group
49
   save "506+project+merged.dta", replace
50
51
   ** Summary table
52
   sort group code
53
   by group code: summarize
54
55
   ** Balance table
56
   by group code: summarize gender code age code degree code osf code
57
58
   *T test
59
   oneway gender code group code if group code==0 | group code==1
60
   oneway gender code group code if group code==0 | group code==2
61
   oneway gender code group code if group code==0 | group code==3
62
   oneway gender code group code if group code==1 | group code==2
   oneway gender_code group_code if group_code==1 | group_code==3
64
   oneway gender code group code if group code==2 | group code==3
65
66
   oneway age_code group_code if group_code==0 | group_code==1
67
   oneway age_code group_code if group code==0 |
                                                   group code==2
68
   oneway age code group code if group code==0 | group code==3
69
   oneway age_code group_code if group_code==1 |
                                                   group code==2
70
                                                   group_code==3
   oneway age_code group_code if group_code==1 |
71
   oneway age code group code if group code==2 | group code==3
72
73
   oneway degree code group code if group code==0 | group code==1
74
   oneway degree code group code if group code==0 | group code==2
75
   oneway degree_code group_code if group_code==0 | group_code==3
76
   oneway degree_code group_code if group_code==1 | group_code==2
77
   oneway degree code group code if group code==1 | group code==3
78
   oneway degree code group code if group code==2 | group code==3
79
80
   oneway osf code group code if group code==0 |
                                                   group code==1
81
   oneway osf_code group_code if group_code==0 |
                                                   group code==2
82
   oneway osf code group code if group code==0 |
                                                   group code==3
83
   oneway osf_code group_code if group_code==1 | group_code==2
84
   oneway osf code group code if group code==1 |
                                                   group code==3
85
86
   oneway osf code group code if group code==2 | group code==3
87
88
89
   *Joint test
90
   oneway gender_code group_code, anova
91
   oneway age code group code, anova
92
   oneway degree code group code, anova
93
   oneway osf code group code, anova
94
```

```
95
    96
    * OLS Between groups a price
97
98
    clear
99
    use 506+project+merged.dta
100
    keep if group_code == 0 | group_code == 2
101
102
    regress a price group code
103
    clear
104
    use 506+project+merged.dta
105
    keep if group_code == 0 | group_code == 2
106
    regress a price group code degree
107
108
109
    clear
110
111
    use 506+project+merged.dta
    keep if group_code == 1 | group_code == 3
112
113
    regress a price group code
114
    clear
115
    use 506+project+merged.dta
116
    keep if group code == 1 | group code == 3
117
    regress a price group code degree
118
119
120
121
    * OLS Between groups b price
122
123
124
    clear
    use 506+project+merged.dta
125
    keep if group code == 0 | group code == 3
126
    regress b price group code
127
128
    clear
129
    use 506+project+merged.dta
130
    keep if group_code == 0 | group_code == 3
131
    regress b price group code degree
132
133
134
135
    clear
    use 506+project+merged.dta
136
    keep if group_code == 1 | group_code == 2
137
    regress b price group code
138
139
    clear
140
    use 506+project+merged.dta
141
    keep if group_code == 1 | group_code == 2
142
    rearess h nrice aroun code dearee
143
```

```
144
145
    * OLS Between groups preference
146
147
    clear
148
    use 506+project+merged.dta
149
     keep if group code == 0 | group code == 2
150
     regress pref_code group_code
151
152
    clear
153
    use 506+project+merged.dta
154
     keep if group code == 0 | group code == 2
155
     regress pref code group code degree
156
157
158
    clear
159
    use 506+project+merged.dta
160
    keep if group code == 0 | group code == 3
161
     regress pref code group code
162
163
    clear
164
    use 506+project+merged.dta
165
     keep if group_code == 0 | group_code == 3
166
     regress pref code group code degree code
167
168
169
    clear
    use 506+project+merged.dta
170
     keep if group code == 1 | group code == 2
171
     regress pref code group code
172
173
    clear
174
    use 506+project+merged.dta
175
     keep if group code == 1 | group code == 2
176
     regress pref_code group_code degree_code
177
178
    clear
179
    use 506+project+merged.dta
180
     keep if group code == 1 | group code == 3
181
     regress pref code group code
182
183
184
    clear
    use 506+project+merged.dta
185
     keep if group code == 1 | group code == 3
186
     regress pref code group code degree code
187
188
189
    * Histograms
190
    clear
191
```

```
use 506+project+merged.dta
192
    graph bar (mean) a_less_20 a_21_30 a_31_40 a_more_40, over(
193
    group code)
    legend(label(1 "Control") label(2 "Treatment 1") label(3
194
    "Treatment 2")///
    label(4 "Treatment 3"))
195
    ytitle("Mean Value") xtitle("Groups")
196
    title("Comparison of probabilistic distribution of Product A
197
    across Groups")
198
199
    graph bar (mean) b less 20 b 21 30 b 31 40 b more 40, over(
200
    group code)
    legend(label(1 "Control") label(2 "Treatment 1") label(3
201
    "Treatment 2")///
    label(4 "Treatment 3"))
202
    vtitle("Mean Value") xtitle("Groups")
203
    title("Comparison of probabilistic distribution of Product B
204
    across Groups")
205
206
207
208
    ***********
    ******* Heterogeneity
209
    gen gg=group code*gender code
210
    gen ga=group code*age code
211
212
    gen gd=group code*degree code
    gen go=group code*osf code
213
214
215
    save 506+project+merged.dta, replace
216
    **
217
218
    clear
219
    use 506+project+merged.dta
220
    keep if group code == 0 | group code == 2
221
    regress a price group code gender code gg
222
223
    clear
224
    use 506+project+merged.dta
225
    keep if group_code == 1 | group_code == 3
226
227
    regress a price group code gender code gg
228
229
230
    **
231
    clear
232
    use 506+project+merged.dta
233
```

```
234
     keep if group code == 0 | group code == 2
     regress a_price group_code osf_code go
235
236
    clear
237
238
    use 506+project+merged.dta
     keep if group code == 1 | group code == 3
239
     regress a price group code osf code go
240
241
242
    **
243
    clear
244
    use 506+project+merged.dta
245
     keep if group code == 0 | group code == 3
246
     regress b_price group_code gender_code gg
247
248
249
    clear
    use 506+project+merged.dta
250
     keep if group code == 1 | group code == 2
251
252
     regress b price group code gender code gg
253
254
    **
255
256
    clear
    use 506+project+merged.dta
257
     keep if group code == 0 | group code == 3
258
     regress b_price group_code osf_code go
259
260
    clear
261
    use 506+project+merged.dta
262
     keep if group code == 1 | group code == 2
263
     regress b price group code osf code go
264
265
266
    ***
    **
267
268
    clear
269
    use 506+project+merged.dta
270
     keep if group_code == 0 | group_code == 2
271
272
     regress pref code group code gender code gg
273
    clear
274
275
    use 506+project+merged.dta
     keep if group code == 0 | group code == 3
276
     regress pref_code group_code gender_code gg
277
278
279
    clear
    use 506+project+merged.dta
280
     keep if group_code == 1 | group_code == 2
281
```

```
regress pret_code group_code gender_code gg
282
283
    clear
284
    use 506+project+merged.dta
285
    keep if group code == 1 | group code == 3
    regress pref_code group_code gender_code gg
287
288
289
290
291
    **
292
293
294
    clear
    use 506+project+merged.dta
295
    keep if group code == 0 | group code == 2
296
    regress pref code group code age code ga
297
298
    clear
299
    use 506+project+merged.dta
300
    keep if group_code == 0 | group_code == 3
301
    regress pref_code group_code age code ga
302
303
    clear
304
305
    use 506+project+merged.dta
    keep if group code == 1 | group code == 2
306
    regress pref_code group_code age_code ga
307
308
    clear
309
    use 506+project+merged.dta
310
    keep if group code == 1 | group code == 3
311
    regress pref code group code age code ga
312
313
314
315
    **
    clear
316
    use 506+project+merged.dta
317
    graph bar (mean) b price , over(group code) by(osf code, col(2))
318
      title("Comparison of Price of B by Group and Online Shopping
319
    Frequency")///
      vtitle("Price")
320
      xtitle("Group") legend(label(1 "Control") label(2 "Treatment 1")
321
       label(3 "Treatment 2") label(4 "Treatment 3"))
322
323
324
325
    **log close
326
    log close
327
328
```