```
      name:  <unnamed>
       log:  /Users/robinson.1012/Dropbox/Research/Corruption/Submissions/JEPS
> /ReplicationFiles/ESCOMlog_SR.smcl
  log type:  smcl
 opened on:  19 Nov 2018, 15:50:16

 1 .
 2 . * Load cleaned data
 3 . clear

 4 . set more off

 5 . use "ESCOMdata_SR.dta"

 6 .
 7 . * Define control variables macro
 8 . global cov  numofficials  other_customers

 9 .
10 . *************
11 . * MAIN TEXT *
12 . *************
13 .
14 . * Statistics in-text
15 .
16 .         * "As shown in Figure 1, corruption-free..."
17 .         tab outcome coreg, col chi2 exact
```

Key
frequency *column percentage*

```
Enumerating sample-space combinations:
stage 3:  enumerations = 1
stage 2:  enumerations = 5
stage 1:  enumerations = 0
```

Outcome of Interaction	Coethnicity		
	Different	Same Regi	Total
Bribe	**10**	**7**	**17**
	27.78	**43.75**	**32.69**
No Bribe	**16**	**3**	**19**
	44.44	**18.75**	**36.54**
Expedited	**10**	**6**	**16**
	27.78	**37.50**	**30.77**
Total	**36**	**16**	**52**
	100.00	**100.00**	**100.00**

Pearson chi2(**2**) = **3.2061** Pr = **0.201**
Fisher's exact = **0.214**

```
18 .
19 . * Table 1: Observations, coethnic interactions, and home region interactions
   >  by confederate
20 . tabstat coreg inhomereg, by(region_ra) stat(n me)
```

Summary statistics: N, mean
by categories of: region_ra (Confederate's Home Region)

region_ra	coreg	inhome~g
North	**18**	**18**
	.3888889	**.1666667**
Center	**19**	**19**
	.4210526	**.3157895**
South	**15**	**15**
	.0666667	**.1333333**
Total	**52**	**52**
	.3076923	**.2115385**

```
21 . bys region_ra: tabstat coreg inhomereg, by(ra) stat(n me)

-------------------------------------------------------------------------------
-> region_ra = North

Summary statistics: N, mean
  by categories of: ra (Confederate ID)
```

ra	coreg	inhome~g
1	**10**	**10**
	.5	**.2**
2	**8**	**8**
	.25	**.125**
Total	**18**	**18**
	.3888889	**.1666667**

```
-------------------------------------------------------------------------------
-> region_ra = Center

Summary statistics: N, mean
  by categories of: ra (Confederate ID)
```

ra	coreg	inhome~g
5	**6**	**6**
	0	**.1666667**
6	**13**	**13**
	.6153846	**.3846154**
Total	**19**	**19**
	.4210526	**.3157895**

```
-------------------------------------------------------------------------------
-> region_ra = South

Summary statistics: N, mean
  by categories of: ra (Confederate ID)
```

ra	coreg	inhome~g
3	**9**	**9**
	.1111111	**.2222222**
4	**6**	**6**
	0	**0**
Total	**15**	**15**
	.0666667	**.1333333**

```
22 .
23 . * Figure 1: Corruption outcomes by coethnicity
24 .     preserve

25 . proportion outcome, over(coreg)

Proportion estimation             Number of obs    =         52

        Bribe: outcome = Bribe
      _prop_2: outcome = No Bribe
    Expedited: outcome = Expedited

    _subpop_1: coreg = Different Region
    _subpop_2: coreg = Same Region
```

Over	Proportion	Std. Err.	[95% Conf.	Interval]
Bribe				
_subpop_1	**.2777778**	**.0757095**	**.1527571**	**.4506897**
_subpop_2	**.4375**	**.1280869**	**.2148016**	**.6886023**
_prop_2				
_subpop_1	**.4444444**	**.0839921**	**.2878069**	**.6129601**
_subpop_2	**.1875**	**.1007782**	**.057628**	**.4654842**
Expedited				
_subpop_1	**.2777778**	**.0757095**	**.1527571**	**.4506897**
_subpop_2	**.375**	**.125**	**.1705779**	**.6364261**

```
26 . regsave

27 . gen outcome=1 if strpos(var, "_prop_2:")
   (4 missing values generated)

28 . replace outcome=2 if strpos(var, "Bribe:")
   (2 real changes made)

29 . replace outcome=3 if strpos(var, "Expedited:")
   (2 real changes made)

30 . gen coreg=0 if strpos(var, "subpop_1")
   (3 missing values generated)

31 . replace coreg=1 if strpos(var, "subpop_2")
   (3 real changes made)

32 . gen hi=coef+stderr

33 . gen lo=coef-stderr

34 . generate comb = outcome    if coreg == 0
   (3 missing values generated)

35 . replace  comb = outcome+4  if coreg == 1
   (3 real changes made)

36 . twoway (bar coef comb if outcome==1, barw(0.7)) ///
   >        (bar coef comb if outcome==2, barw(0.7)) ///
   >        (bar coef comb if outcome==3, barw(0.7)) ///
   >        (rcap hi lo comb), ///
   >     legend(off) xscale(range(0.25 7.75))  ///
   >        xlabel( 1 `" "{bf:Regular Service}" "No Bribe" "Not Expedited"  "' //
   > /
   >            2 `" "{bf:Bribe}" "Bribe" "Expedited"  "'  3 `""{bf:Expedited}" "
   > No Bribe" "Expedited"  "'  ///
   >         5 `" "{bf:Regular Service}" "No Bribe" "Not Expedited"  "' ///
   >            6 `" "{bf:Bribe}" "Bribe" "Expedited"  "'  7 `""{bf:Expedited}" "
   > No Bribe" "Expedited"  "'  ///
   >            , labsize(vsmall) noticks) ///
   >        ytitle("") xtitle("") ///
   >     scheme(s2mono) graphregion(fcolor(white)) ///
   >     text(0.6 2  "Non-Coethnic Interactions", box size(small) place(c) margin
   > (l+1 t+1 b+1 r+1) just(center) fcolor(white)) ///
   >     text(0.6 6  "Coethnic Interactions", box size(small) place(c) margin(l+1
   >  t+1 b+1 r+1) just(center) fcolor(white))
```

```
37 .     restore

38 .
39 . * Table 2: Coethnicity and corruption outcomes in ESCOM interactions
40 . eststo main1: mlogit outcome  coreg i.ses i.power , base(1) vce(robust)

Iteration 0:   log pseudolikelihood = -56.994286
Iteration 1:   log pseudolikelihood = -51.934103
Iteration 2:   log pseudolikelihood = -51.872437
Iteration 3:   log pseudolikelihood = -51.872301
Iteration 4:   log pseudolikelihood = -51.872301

Multinomial logistic regression                 Number of obs     =         52
                                                Wald chi2(6)      =      11.13
                                                Prob > chi2       =     0.0843
Log pseudolikelihood = -51.872301               Pseudo R2         =     0.0899
```

outcome	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Bribe						
coreg	1.325549	.8375162	1.58	0.113	-.315953	2.96705
ses						
Rich	-.3879866	.7458111	-0.52	0.603	-1.84975	1.073776
power						
Connected	-.1766405	.6975234	-0.25	0.800	-1.543761	1.19048
_cons	-.252908	.5703914	-0.44	0.657	-1.370855	.8650386
No_Bribe	(base outcome)					
Expedited						
coreg	1.333508	.7682894	1.74	0.083	-.1723115	2.839328
ses						
Rich	-.0191734	.7228371	-0.03	0.979	-1.435908	1.397561
power						
Connected	1.532597	.7544558	2.03	0.042	.0538906	3.011303
_cons	-1.415617	.7481397	-1.89	0.058	-2.881944	.0507097

```
41 . eststo main2: mlogit outcome coreg i.ses i.power  $cov, base(1) vce(robust)

Iteration 0:   log pseudolikelihood = -56.994286
Iteration 1:   log pseudolikelihood = -46.055241
Iteration 2:   log pseudolikelihood = -45.747803
Iteration 3:   log pseudolikelihood = -45.745707
Iteration 4:   log pseudolikelihood = -45.745706

Multinomial logistic regression                 Number of obs     =         52
                                                Wald chi2(10)     =      20.47
                                                Prob > chi2       =     0.0251
Log pseudolikelihood = -45.745706               Pseudo R2         =     0.1974

------------------------------------------------------------------------------
> ----
             |               Robust
     outcome |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interv
> al]
-------------+----------------------------------------------------------------
> ----
Bribe        |
       coreg |   1.607412   .9408252     1.71   0.088    -.2365715    3.451
> 396
             |
         ses |
        Rich |  -1.050367   .8594706    -1.22   0.222    -2.734899    .6341
> 641
             |
       power |
   Connected |   -.078416   .7935673    -0.10   0.921    -1.633779    1.476
> 947
  numofficials |   .7623597    .403279     1.89   0.059    -.0280527    1.552
> 772
other_customers |   -1.19646   1.237818    -0.97   0.334    -3.622538    1.229
> 618
       _cons |  -1.683457   1.019064    -1.65   0.099    -3.680785    .3138
> 709
-------------+----------------------------------------------------------------
> ----
No_Bribe     |  (base outcome)
-------------+----------------------------------------------------------------
> ----
Expedited    |
       coreg |   1.587968   .8663968     1.83   0.067    -.1101385    3.286
> 075
             |
         ses |
        Rich |  -.5413491   .8176046    -0.66   0.508    -2.143825    1.061
> 126
```

```
                 |
           power |
     Connected   |   2.441018   .9189271     2.66   0.008     .6399535    4.242
> 082
   numofficials  |   .5444538   .3984906     1.37   0.172    -.2365735    1.325
> 481
other_customers  |   .8591221    1.12761     0.76   0.446    -1.350953    3.069
> 197
           _cons |  -3.202416   1.174565    -2.73   0.006    -5.504521   -.9003
> 118
-----------------+----------------------------------------------------------------
> ---

42 .
43 .
44 .
45 . *************
46 . * APPENDIX *
47 . *************
48 .
49 . * Statistics in-text
50 .
51 .         * Section A.2:  No. of offices, minimum and maximum obs. per confede
> rate, total no. of obs.
52 .         tab eid
```

eid	Freq.	Percent	Cum.
1	3	6.52	6.52
2	2	4.35	10.87
3	1	2.17	13.04
4	3	6.52	19.57
5	6	13.04	32.61
6	1	2.17	34.78
7	1	2.17	36.96
8	5	10.87	47.83
9	3	6.52	54.35
10	3	6.52	60.87
11	2	4.35	65.22
12	3	6.52	71.74
13	6	13.04	84.78
14	3	6.52	91.30
15	4	8.70	100.00
Total	46	100.00	

```
53 .         summ ra_eobs
```

Variable	Obs	Mean	Std. Dev.	Min	Max
ra_eobs	**52**	**9.346154**	**2.535123**	**6**	**13**

```
54 .
55 .         * Section A.3: Paragraph beginning with "When an ESCOM official inte
   > racts..."
56 .         tab outcome
```

Outcome of Interaction	Freq.	Percent	Cum.
Bribe	**17**	**32.69**	**32.69**
No Bribe	**19**	**36.54**	**69.23**
Expedited	**16**	**30.77**	**100.00**
Total	**52**	**100.00**	

```
57 .         tab corrupt
```

Non-Normal Service (Bribe or Expedited)	Freq.	Percent	Cum.
0	**19**	**36.54**	**36.54**
1	**33**	**63.46**	**100.00**
Total	**52**	**100.00**	

```
58 .         summ bribe_amount
```

Variable	Obs	Mean	Std. Dev.	Min	Max
bribe_amount	**31**	**12367.74**	**13825.08**	**0**	**40000**

```
59 .         summ bribe_amount if bribe_asked==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
bribe_amount	**15**	**25560**	**6949.183**	**15000**	**40000**

```
60 .
61 .         * Section A.4: Paragraph beginning with "Confederates coded the ethn
   > icity and region of origin..."
62 .         tab regused_told
```

Told Official's Region Directly	Freq.	Percent	Cum.
0	**46**	**88.46**	**88.46**
1	**6**	**11.54**	**100.00**
Total	**52**	**100.00**	

```
63 .         tab region_confidence
```

Confidence in Coding of Official's Region	Freq.	Percent	Cum.
Not confident at all	**8**	**15.38**	**15.38**
Uncertain	**16**	**30.77**	**46.15**
Confident	**19**	**36.54**	**82.69**
Highly confident	**9**	**17.31**	**100.00**
Total	**52**	**100.00**	

```
64 .
65 .         * Section C: statistics in the second (n=6) and third (15% of intera
   > ctions) paragraphs
66 .         bys region_ra ra: tab coreg

-> region_ra = North, ra = 1
```

Coethnicity	Freq.	Percent	Cum.
Different Region	**5**	**50.00**	**50.00**
Same Region	**5**	**50.00**	**100.00**
Total	**10**	**100.00**	

-> region_ra = North, ra = 2

Coethnicity	Freq.	Percent	Cum.
Different Region	6	75.00	75.00
Same Region	2	25.00	100.00
Total	8	100.00	

-> region_ra = Center, ra = 5

Coethnicity	Freq.	Percent	Cum.
Different Region	6	100.00	100.00
Total	6	100.00	

-> region_ra = Center, ra = 6

Coethnicity	Freq.	Percent	Cum.
Different Region	5	38.46	38.46
Same Region	8	61.54	100.00
Total	13	100.00	

-> region_ra = South, ra = 3

Coethnicity	Freq.	Percent	Cum.
Different Region	8	88.89	88.89
Same Region	1	11.11	100.00
Total	9	100.00	

-> region_ra = South, ra = 4

Coethnicity	Freq.	Percent	Cum.
Different Region	6	100.00	100.00
Total	6	100.00	

```
67 .         tab region_confidence
```

Confidence in Coding of Official's Region	Freq.	Percent	Cum.
Not confident at all	8	15.38	15.38
Uncertain	16	30.77	46.15
Confident	19	36.54	82.69
Highly confident	9	17.31	100.00
Total	52	100.00	

```
68 .
69 .         * Section D: paragraph beginning "Overall, corruption was much more
   > common..."
70 .         tab bribe_asked
```

Bribe Solicited	Freq.	Percent	Cum.
No	35	67.31	67.31
Yes	17	32.69	100.00
Total	52	100.00	

```
71 .         tab corrupt
```

Non-Normal Service (Bribe or Expedited)	Freq.	Percent	Cum.
0	19	36.54	36.54
1	33	63.46	100.00
Total	52	100.00	

```
72 .
73 . * Figure B.1 (Statitics): Decision Tree for ESCOM Officials
74 . tab corrupt
```

Non-Normal Service (Bribe or Expedited)	Freq.	Percent	Cum.
0	19	36.54	36.54
1	33	63.46	100.00
Total	52	100.00	

```
75 . tab bribe_asked if corrupt==1
```

Bribe Solicited	Freq.	Percent	Cum.
No	16	48.48	48.48
Yes	17	51.52	100.00
Total	33	100.00	

```
76 . summ bribe_amount if bribe_asked==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
bribe_amount	15	25560	6949.183	15000	40000

```
77 .
78 . * Table B.1: Summary Statistics for ESCOM Context
79 .  summ ses power coreg expedited bribe_asked bribe_amount total $cov
```

Variable	Obs	Mean	Std. Dev.	Min	Max
ses	52	.4038462	.4954545	0	1
power	52	.5	.5048782	0	1
coreg	52	.3076923	.4660414	0	1
expedited	52	.3076923	.4660414	0	1
bribe_asked	52	.3269231	.4736655	0	1
bribe_amount	31	12367.74	13825.08	0	40000
total	50	7668	12401.34	0	40000
numofficials	52	2.480769	1.945234	1	9
other_cust~s	52	.2307692	.4254356	0	1

```
80 .
81 . * Figure B.2: Bribe Amounts in ESCOM Context
82 . hist bribe_amount, percent      ///
   >         scheme(s2mono) graphregion(fcolor(white))  ///
   >         ytitle ("Percent of ESCOM Interactions with Expedited Service", size
   > (small))
   (bin=5, start=0, width=8000)

83 .
84 . * Table B.2:Covariate Balance by Socioeconomic Status Assignment
85 . estpost ttest $cov, by(ses)

                |      e(b)   e(count)      e(se)       e(t)    e(df_t)     e(p_l
   > )
   ─────────────┼──────────────────────────────────────────────────────────────────
   > ──
   numofficials | -.7910906         52   .5438552  -1.454598         50    .07601
   > 5
   other_cust~s | -.0921659         52   .1207338   -.763381         50   .224411
   > 6

                |      e(p)     e(p_u)     e(N_1)    e(mu_1)     e(N_2)    e(mu_2
   > )
   ─────────────┼──────────────────────────────────────────────────────────────────
   > ──
   numofficials |  .1520299    .923985         31    2.16129         21   2.95238
   > 1
   other_cust~s |  .4488233   .7755884         31   .1935484         21   .285714
   > 3

86 .
87 . * Table B.3:Covariate Balance by Political Connections Assignment
88 . estpost ttest $cov, by(power)

                |      e(b)   e(count)      e(se)       e(t)    e(df_t)     e(p_l
   > )
   ─────────────┼──────────────────────────────────────────────────────────────────
   > ──
   numofficials |  .7307692         52   .5349888   1.365952         50   .910966
   > 6
   other_cust~s |  .3076923         52     .11094   2.773501         50   .996112
   > 8
```

```
                │      e(p)     e(p_u)     e(N_1)    e(mu_1)     e(N_2)    e(mu_2
> )
────────────────┼──────────────────────────────────────────────────────────────────
> ──
numofficials    │   .1780668   .0890334         26   2.846154         26   2.11538
> 5
other_cust~s    │   .0077745   .0038872         26   .3846154         26   .076923
> 1

89 .
90 . * Table B.2:Covariate Balance by Coethnicity Assignment
91 . estpost ttest $cov, by(coreg)

                │      e(b)   e(count)      e(se)       e(t)    e(df_t)     e(p_l
> )
────────────────┼──────────────────────────────────────────────────────────────────
> ──
numofficials    │   .1527778         52   .5898904   .2589935         50   .601648
> 2
other_cust~s    │     .0625         52   .1287965   .4852616         50   .685194
> 8

                │      e(p)     e(p_u)     e(N_1)    e(mu_1)     e(N_2)    e(mu_2
> )
────────────────┼──────────────────────────────────────────────────────────────────
> ──
numofficials    │   .7967036   .3983518         36   2.527778         16      2.37
> 5
other_cust~s    │   .6296103   .3148052         36        .25         16      .187
> 5

92 .
93 . * Table C.1: Coethnicity and dichotomous indicators of corruption outcomes i
   > n ESCOM interactions
94 . eststo corrupt: logit corrupt coreg i.ses i.power  $cov  ,  vce(robust)

Iteration 0:   log pseudolikelihood = -34.135583
Iteration 1:   log pseudolikelihood = -27.698019
Iteration 2:   log pseudolikelihood = -27.421155
Iteration 3:   log pseudolikelihood = -27.417593
Iteration 4:   log pseudolikelihood =  -27.41759
Iteration 5:   log pseudolikelihood =  -27.41759

Logistic regression                             Number of obs     =         52
                                                Wald chi2(5)      =      10.82
                                                Prob > chi2       =     0.0550
Log pseudolikelihood =  -27.41759               Pseudo R2         =     0.1968
```

```
------------------------------------------------------------------------------
> ---
                 |               Robust
        corrupt |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interv
> al]
------------------------------------------------------------------------------
> ---
          coreg |   1.552219   .8207745     1.89   0.059    -.0564698    3.160
> 907
                 |
            ses |
          Rich  |  -.6336943   .6848952    -0.93   0.355    -1.976064    .7086
> 757
                 |
          power |
     Connected  |   1.104614   .6155187     1.79   0.073    -.1017802    2.311
> 009
   numofficials |   .6232677   .4131432     1.51   0.131    -.1864781    1.433
> 014
other_customers |  -.1186548   .9598581    -0.12   0.902    -1.999942    1.762
> 632
          _cons |  -1.504227   .9766822    -1.54   0.124    -3.418489    .4100
> 345
------------------------------------------------------------------------------
> ---

95 . eststo bribe: logit bribe_asked coreg i.ses i.power  $cov ,  vce(robust)

Iteration 0:   log pseudolikelihood = -32.862864
Iteration 1:   log pseudolikelihood = -28.139131
Iteration 2:   log pseudolikelihood =  -27.93764
Iteration 3:   log pseudolikelihood = -27.936527
Iteration 4:   log pseudolikelihood = -27.936527

Logistic regression                             Number of obs     =         52
                                                Wald chi2(5)      =       8.88
                                                Prob > chi2       =     0.1140
Log pseudolikelihood = -27.936527               Pseudo R2         =     0.1499
```

```
------------------------------------------------------------------------------
> ----
             |               Robust
  bribe_asked |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interv
> al]
-------------+----------------------------------------------------------------
> ----
       coreg |   .8979399   .7030211     1.28   0.202    -.4799562    2.275
> 836
             |
         ses |
        Rich |  -.9082887   .7439836    -1.22   0.222     -2.36647    .5498
> 923
             |
       power |
   Connected |  -1.134018   .7547226    -1.50   0.133    -2.613247    .3452
> 109
  numofficials |   .4546971   .1939551     2.34   0.019      .074552    .8348
> 421
other_customers |   -1.34066   1.038842    -1.29   0.197    -3.376753    .6954
> 329
       _cons |  -1.073009   .7110054    -1.51   0.131    -2.466554    .3205
> 358
------------------------------------------------------------------------------
> ----
```

```
96 .
97 . * Table C.2: Coethnicity and corruption outcomes in ESCOM interactions, adju
   > sting for confederate effects
98 . eststo fe: femlogit outcome coreg ses power  $cov , base(1) group(ra) robust

Iteration 0:   log pseudolikelihood =  -27.15975
Iteration 1:   log pseudolikelihood =   -26.0167
Iteration 2:   log pseudolikelihood = -25.884253
Iteration 3:   log pseudolikelihood = -25.883532
Iteration 4:   log pseudolikelihood = -25.883532

Fixed-effects multinomial logistic regression   Number of obs     =         52
                                                Wald chi2(10)     =       2.49
                                                Prob > chi2       =     0.9910
Log pseudolikelihood = -25.883532               Pseudo R2         =     0.1380
```

outcome	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Bribe						
coreg	**.8345597**	**.7282348**	**1.15**	**0.252**	**-.5927542**	**2.261874**
ses	**-.77354**	**.8691237**	**-0.89**	**0.373**	**-2.476991**	**.9299111**
power	**-.2253046**	**2.324326**	**-0.10**	**0.923**	**-4.780899**	**4.33029**
numofficials	**.5621749**	**.6088223**	**0.92**	**0.356**	**-.6310949**	**1.755445**
other_cust~s	**-2.158193**	**2.246248**	**-0.96**	**0.337**	**-6.560758**	**2.244371**
No_Bribe	(base outcome)					
Expedited						
coreg	**1.098228**	**.9253841**	**1.19**	**0.235**	**-.7154918**	**2.911947**
ses	**.0423811**	**.9875062**	**0.04**	**0.966**	**-1.893095**	**1.977858**
power	**1.846197**	**1.595418**	**1.16**	**0.247**	**-1.280764**	**4.973158**
numofficials	**.3436115**	**.7903534**	**0.43**	**0.664**	**-1.205453**	**1.892676**
other_cust~s	**-.4994006**	**.8800803**	**-0.57**	**0.570**	**-2.224326**	**1.225525**

```
 99 . qui gsem (0.outcome <- i.coreg i.ses i.power $cov  RI0[ra]) ///
   >      (2.outcome <- i.coreg i.ses i.power $cov  RI2[ra]), mlogit vce(robust)

100 . est sto re

101 . est r re
```

Model **re**

Generalized structural equation model — Number of obs = **52**

Response : **outcome**
Base outcome : **1**
Family : **multinomial**
Link : **logit**
Log pseudolikelihood = **-44.116083**

```
 ( 1)  [0.outcome]RI0[ra] = 1
 ( 2)  [2.outcome]RI2[ra] = 1
                                                (Std. Err. adjusted for 6 clusters
>  in ra)
------------------------------------------------------------------------------
> ------
             |               Robust
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. In
> terval]
-------------+----------------------------------------------------------------
> ------
0.outcome <- |
             |
       coreg |
Same Region  |   1.454827   .6108664     2.38   0.017     .2575508    2
> .652103
             |
         ses |
        Rich |  -.9143483   .9282009    -0.99   0.325    -2.733589    .
> 9048921
             |
       power |
   Connected |  -.0902761   1.443982    -0.06   0.950    -2.920428    2
> .739876
numofficials |   .6954953    .516818     1.35   0.178    -.3174495
> 1.70844
other_custom~s|  -1.323318   1.857901    -0.71   0.476    -4.964738    2
> .318101
             |
      RI0[ra] |          1  (constrained)
             |
       _cons |  -1.429802   1.313577    -1.09   0.276    -4.004365    1
> .144761
-------------+----------------------------------------------------------------
> ------
1.outcome    |  (base outcome)
-------------+----------------------------------------------------------------
> ------
2.outcome <- |
             |
       coreg |
Same Region  |   1.559437   .5928017     2.63   0.009     .3975675    2
> .721307
             |
         ses |
        Rich |  -.2295537    .854658    -0.27   0.788    -1.904653    1
> .445545
             |
       power |
```

```
         Connected |   2.466715   1.573067     1.57   0.117    -.6164395
> 5.54987
       numofficials |   .4394956   .6877578     0.64   0.523    -.9084849    1
> .787476
    other_customers |   .5497937    .648027     0.85   0.396    -.7203159    1
> .819903
                    |
            RI2[ra] |          1  (constrained)
                    |
              _cons |  -3.230778   2.682564    -1.20   0.228    -8.488507    2
> .026952
--------------------+-------------------------------------------------------
> -------
        var(RI0[ra])|   .1268706   2.01e-09                      .1268706    .
> 1268706
        var(RI2[ra])|   1.744481   7.34e-08                      1.744481    1
> .744481
--------------------+-------------------------------------------------------
> -------
cov(RI2[ra],RI0[ra])|   .4704501   1.47e-08  3.2e+07   0.000     .4704501    .
> 4704502
--------------------+-------------------------------------------------------
> -------

102 .
103 . * Table C.3: Coethnicity and corruption outcomes in ESCOM interactions, acco
    > unting for confidence in the coding of ethnicity
104 . eststo noconf1: mlogit outcome i.coreg i.ses i.power $cov if noconf_reg==0,
    > base(1) vce(robust)

    Iteration 0:   log pseudolikelihood =  -48.17783
    Iteration 1:   log pseudolikelihood = -31.152033
    Iteration 2:   log pseudolikelihood = -28.842639
    Iteration 3:   log pseudolikelihood = -28.418177
    Iteration 4:   log pseudolikelihood = -28.401456
    Iteration 5:   log pseudolikelihood = -28.401438
    Iteration 6:   log pseudolikelihood = -28.401438

    Multinomial logistic regression                 Number of obs     =         44
                                                    Wald chi2(10)     =      42.79
                                                    Prob > chi2       =     0.0000
    Log pseudolikelihood = -28.401438               Pseudo R2         =     0.4105
```

outcome	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf. Interval]
Bribe					
coreg					
Same Region	**3.581388**	**1.346439**	**2.66**	**0.008**	**.942417** **6.220036**
ses					
Rich	**-1.410339**	**1.384369**	**-1.02**	**0.308**	**-4.123651** **1.302974**
power					
Connected	**1.308815**	**1.125967**	**1.16**	**0.245**	**-.8980401** **3.510567**
numofficials	**2.448562**	**1.160881**	**2.11**	**0.035**	**.1732772** **4.723846**
other_customers	**-6.252219**	**3.097257**	**-2.02**	**0.044**	**-12.32273** **-.1817065**
_cons	**-4.891091**	**1.405922**	**-3.48**	**0.001**	**-7.646647** **-2.135535**
No_Bribe	(base outcome)				
Expedited					
coreg					
Same Region	**3.652367**	**1.243006**	**2.94**	**0.003**	**1.216121** **6.088614**
ses					
Rich	**-.7277415**	**1.172004**	**-0.62**	**0.535**	**-3.024827** **1.569344**
power					
Connected	**3.938067**	**1.189567**	**3.31**	**0.001**	**1.606557** **6.269576**
numofficials	**2.334987**	**1.141626**	**2.05**	**0.041**	**.0974413** **4.572532**
other_customers	**-5.215778**	**3.193889**	**-1.63**	**0.102**	**-11.47569** **1.044134**
_cons	**-6.872436**	**1.504393**	**-4.57**	**0.000**	**-9.820992** **-3.923880**

```
> ———

105 . eststo noconf2: mlogit outcome i.coreg##i.noconf_reg i.ses i.power $cov , ba
> se(1) vce(robust)

Iteration 0:   log pseudolikelihood = -56.994286
Iteration 1:   log pseudolikelihood = -43.722218
Iteration 2:   log pseudolikelihood =  -43.34401
Iteration 3:   log pseudolikelihood = -43.329764
Iteration 4:   log pseudolikelihood =  -43.32666
Iteration 5:   log pseudolikelihood = -43.325884
Iteration 6:   log pseudolikelihood = -43.325735
Iteration 7:   log pseudolikelihood = -43.325707
Iteration 8:   log pseudolikelihood = -43.325704

Multinomial logistic regression                 Number of obs     =         52
                                                Wald chi2(13)     =          .
                                                Prob > chi2       =          .
Log pseudolikelihood = -43.325704               Pseudo R2         =     0.2398

------------------------------------------------------------------------------
> ———
             |               Robust
     outcome |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-------------+----------------------------------------------------------------
> ———
Bribe        |
        coreg |
  Same Region |   2.130999   .9635092     2.21   0.027     .2425555    4.01
> 9442
  1.noconf_reg |  -.3385494   1.967031    -0.17   0.863    -4.193859     3.5
> 1676
               |
coreg#noconf_reg |
Same Region#1 |  -17.08743   2.286339    -7.47   0.000    -21.56857   -12.6
> 0629
               |
          ses |
         Rich |  -1.361876   .9139999    -1.49   0.136    -3.153283     .42
> 9531
               |
        power |
    Connected |  -.3024212   .8130749    -0.37   0.710    -1.896019    1.29
> 1176
  numofficials |   .7895087   .4211999     1.87   0.061    -.0360279    1.61
> 5045
other_customers |  -1.413744   1.503559    -0.94   0.347    -4.360664    1.53
> 3177
```

```
            _cons |  -1.476069   1.098215    -1.34   0.179     -3.62853    .676
> 3925
------------------+------------------------------------------------------------
> -----
No_Bribe          |  (base outcome)
------------------+------------------------------------------------------------
> -----
Expedited         |
            coreg |
    Same Region   |   2.159084    .956181     2.26   0.024     .2850038    4.03
> 3165
    1.noconf_reg  |   .7052362   1.501801     0.47   0.639     -2.23824    3.64
> 8712
                  |
coreg#noconf_reg  |
  Same Region#1   |  -16.04618   2.121026    -7.57   0.000    -20.20331   -11.8
> 8905
                  |
              ses |
            Rich  |  -.7117274   .8859819    -0.80   0.422     -2.44822    1.02
> 4765
                  |
            power |
      Connected   |   2.322992   .9310638     2.49   0.013     .4981406    4.14
> 7844
    numofficials  |   .5724593   .4240165     1.35   0.177    -.2585977    1.40
> 3516
 other_customers  |   .4810692   1.329052     0.36   0.717    -2.123824    3.08
> 5962
            _cons |  -3.215712   1.235395    -2.60   0.009    -5.637042   -.794
> 3827
------------------+------------------------------------------------------------
> -----
Note: 1 observation completely determined.  Standard errors questionable.

106 .
107 . * Table C.4: Coethnicity and corruption outcomes in ESCOM interactions, usin
    > g randomized inference to approximate exact p-values
```

```
108 . preserve

109 . do ESCOMri_SR.do

110 . * ANALYSIS REPLICATION FILE
111 .         * Paper: Coethnicity and Corruption: Field Experimental Evidence fro
    > m Public Officials in Malawi
112 .         * Authors: Brigitte Seim and Amanda Lea Robinson
113 .         * Journal: Journal of Experimental Political Science
114 .
115 . * FILE INFO
116 .         * This .do file calculates exact p-values for the multinomial logit.
117 .         * This .do file is called by the main analysis file, ESCOManalyses_S
    > R.do
118 .
119 . ************************************************************
120 .
121 .
122 . *  Model 1 (no controls)
123 .
124 . clear

125 . set more off

126 . use "ESCOMdata_SR.dta"

127 . quiet mlogit outcome ses power coreg , base(1) robust

128 .
129 . /* set seed as today's date */
130 . set seed 08092018

131 .
132 .
133 . /* number of reps */
134 . local r=10000
```

```
135 . /* store betas */
136 .     global bhat_bcoreg = _b[Bribe:coreg]

137 .         global bhat_ecoreg = _b[Expedited:coreg]

138 .     global bhat_bses = _b[Bribe:ses]

139 .         global bhat_eses = _b[Expedited:ses]

140 .     global bhat_bpower = _b[Bribe:power]

141 .         global bhat_epower = _b[Expedited:power]

142 . /* set up matrix for betas */
143 . mata:bstats1=J(`r',1,.)

144 . mata:bstats2=J(`r',1,.)

145 . mata:bstats3=J(`r',1,.)

146 . mata:bstats4=J(`r',1,.)

147 . mata:bstats5=J(`r',1,.)

148 . mata:bstats6=J(`r',1,.)

149 . /* set up a variable to use for sorting */
150 . quiet gen u1 = .

151 . quiet gen u2 = .

152 . quiet gen u3 = .

153 . quiet gen fcoreg=.

154 . quiet gen fses=.
```

```
155 . quiet gen fpower=.

156 . /* loop over the R randomizations */
157 . forvalues r = 1/`r'{
      2.     /*assign treatments randomly */
158 .     quiet replace u1 = runiform()
      3.     sort u1
      4.     quiet replace fcoreg = inrange(_n,1,16)
      5.     quiet replace u2 = runiform()
      6.     sort u2
      7.     quiet replace fses = inrange(_n,1,21)
      8.     quiet replace u3 = runiform()
      9.     sort u3
     10.     quiet replace fpower = inrange(_n,1,26)
     11.     /* run the regression */
159 .     quiet mlogit outcome fses fpower fcoreg, base(1) robust
     12.     /* store betas */
160 .     local bstat1 = _b[Bribe:fcoreg]
     13.     mata: bstats1[`r',1]=`bstat1'
     14.         local bstat2 = _b[Expedited:fcoreg]
     15.     mata: bstats2[`r',1]=`bstat2'
     16.     local bstat3 = _b[Bribe:fses]
     17.     mata: bstats3[`r',1]=`bstat1'
     18.         local bstat4 = _b[Expedited:fses]
     19.     mata: bstats4[`r',1]=`bstat2'
     20.     local bstat5 = _b[Bribe:fpower]
     21.     mata: bstats5[`r',1]=`bstat1'
     22.         local bstat6 = _b[Expedited:fpower]
     23.     mata: bstats6[`r',1]=`bstat2'
     24. }

161 .
162 . /* get betas */
163 . foreach n of numlist 1 2 3 4 5 6 {
      2. getmata bstats`n', force
      3. }
```

```
164 .
165 . /* calculate p-values */
166 . gen rej1 = abs(bstats1)>=abs(${bhat_bcoreg})

167 . quiet summ rej1

168 . display ${bhat_bcoreg} "RI p-value for Coreg:Bribe is " r(mean)
    1.3255486RI p-value for Coreg:Bribe is .1139

169 .
170 . gen rej2 = abs(bstats2)>=abs(${bhat_ecoreg})

171 . quiet summ rej2

172 . display ${bhat_ecoreg} "RI p-value for Coreg:Expedited is " r(mean)
    1.333508RI p-value for Coreg:Expedited is .1162

173 .
174 . gen rej3 = abs(bstats3)>=abs(${bhat_bses})

175 . quiet summ rej3

176 . display ${bhat_bses} "RI p-value for SES:Bribe is " r(mean)
    -.38798657RI p-value for SES:Bribe is .6296

177 .
178 . gen rej4 = abs(bstats4)>=abs(${bhat_eses})

179 . quiet summ rej4

180 . display ${bhat_eses} "RI p-value for SES:Expedited is " r(mean)
    -.01917343RI p-value for SES:Expedited is .9792

181 .
182 . gen rej5 = abs(bstats5)>=abs(${bhat_bpower})

183 . quiet summ rej5
```

```
184 . display ${bhat_bpower} "RI p-value for Power:Bribe is " r(mean)
    -.17664048RI p-value for Power:Bribe is .8133

185 .
186 . gen rej6 = abs(bstats6)>=abs(${bhat_epower})

187 . quiet summ rej6

188 . display  ${bhat_epower} "RI p-value for Power:Expedited is" r(mean)
    1.5325968RI p-value for Power:Expedited is.0744

189 .
190 .
191 .
192 . *  Model 2 (with controls)
193 .
194 .
195 . clear

196 . set more off

197 . use "ESCOMdata_SR.dta"

198 .
199 . quiet mlogit outcome ses power coreg $cov , base(1) robust

200 .
201 . /* set seed as today's date */
202 . set seed 08092018

203 .
204 .
205 . /* number of reps */
206 . local r=10000

207 . /* store betas */
208 .     global bhat_bcoreg = _b[Bribe:coreg]
```

```
209 .         global bhat_ecoreg = _b[Expedited:coreg]

210 .     global bhat_bses = _b[Bribe:ses]

211 .         global bhat_eses = _b[Expedited:ses]

212 .     global bhat_bpower = _b[Bribe:power]

213 .         global bhat_epower = _b[Expedited:power]

214 . /* set up matrix for betas */
215 . mata:bstats1=J(`r',1,.)

216 . mata:bstats2=J(`r',1,.)

217 . mata:bstats3=J(`r',1,.)

218 . mata:bstats4=J(`r',1,.)

219 . mata:bstats5=J(`r',1,.)

220 . mata:bstats6=J(`r',1,.)

221 . /* set up a variable to use for sorting */
222 . quiet gen u1 = .

223 . quiet gen u2 = .

224 . quiet gen u3 = .

225 . quiet gen fcoreg=.

226 . quiet gen fses=.

227 . quiet gen fpower=.

228 . /* loop over the R randomizations */
```

```
229 . forvalues r = 1/`r'{
      2.     /*assign treatments randomly */
230 .     quiet replace u1 = runiform()
      3.     sort u1
      4.     quiet replace fcoreg = inrange(_n,1,16)
      5.     quiet replace u2 = runiform()
      6.     sort u2
      7.     quiet replace fses = inrange(_n,1,21)
      8.     quiet replace u3 = runiform()
      9.     sort u3
     10.     quiet replace fpower = inrange(_n,1,26)
     11.     /* run the regression */
231 .     quiet mlogit outcome fses fpower fcoreg $cov, base(1) robust
     12.     /* store betas */
232 .     local bstat1 = _b[Bribe:fcoreg]
     13.     mata: bstats1[`r',1]=`bstat1'
     14.         local bstat2 = _b[Expedited:fcoreg]
     15.     mata: bstats2[`r',1]=`bstat2'
     16.     local bstat3 = _b[Bribe:fses]
     17.     mata: bstats3[`r',1]=`bstat1'
     18.         local bstat4 = _b[Expedited:fses]
     19.     mata: bstats4[`r',1]=`bstat2'
     20.     local bstat5 = _b[Bribe:fpower]
     21.     mata: bstats5[`r',1]=`bstat1'
     22.         local bstat6 = _b[Expedited:fpower]
     23.     mata: bstats6[`r',1]=`bstat2'
     24. }

233 .
234 . /* get betas */
235 . foreach n of numlist 1 2 3 4 5 6  {
      2. getmata bstats`n', force
      3. }

236 .
237 . /* calculate p-values */
238 . gen rej1 = abs(bstats1)>=abs(${bhat_bcoreg})
```

```
239 . quiet summ rej1

240 . display ${bhat_bcoreg} "RI p-value for Coreg:Bribe is " r(mean)
    1.607412RI p-value for Coreg:Bribe is .0931

241 .
242 . gen rej2 = abs(bstats2)>=abs(${bhat_ecoreg})

243 . quiet summ rej2

244 . display ${bhat_ecoreg} "RI p-value for Coreg:Expedited is " r(mean)
    1.587968RI p-value for Coreg:Expedited is .0809

245 .
246 . gen rej3 = abs(bstats3)>=abs(${bhat_bses})

247 . quiet summ rej3

248 . display ${bhat_bses} "RI p-value for SES:Bribe is " r(mean)
    -1.0503673RI p-value for SES:Bribe is .251

249 .
250 . gen rej4 = abs(bstats4)>=abs(${bhat_eses})

251 . quiet summ rej4

252 . display ${bhat_eses} "RI p-value for SES:Expedited is " r(mean)
    -.54134912RI p-value for SES:Expedited is .5318

253 .
254 . gen rej5 = abs(bstats5)>=abs(${bhat_bpower})

255 . quiet summ rej5

256 . display ${bhat_bpower} "RI p-value for Power:Bribe is " r(mean)
    -.07841597RI p-value for Power:Bribe is .9285
```

```
257 .
258 . gen rej6 = abs(bstats6)>=abs(${bhat_epower})

259 . quiet summ rej6

260 . display  ${bhat_epower} "RI p-value for Power:Expedited is" r(mean)
    2.4410176RI p-value for Power:Expedited is.0131

261 .
262 .
    end of do-file

263 . restore

264 .
265 . * Table C.5: Coethnicity and corruption outcomes in ESCOM interactions, gene
    > ralized maximum entropy model
266 . eststo gmlogit1: gmemultinomial outcome ses power coreg , base(1)
    Iteration 0:   f(p) =  228.51136
    Iteration 1:   f(p) =  223.70336
    Iteration 2:   f(p) =  223.65819
    Iteration 3:   f(p) =  223.65817
    Iteration 4:   f(p) =  223.65817

    Generalized Maximum Entropy (MLogit)             Number of obs      =     52
                                                     Entropy for probs. =   52.6
                                                     Normalized entropy = 0.9213
                                                     Ent. ratio stat.   =    5.7
    Criterion F (log L) = -223.65817                 Pseudo R2          = 0.0787
```

outcome	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Bribe						
ses	-.3702859	.6793734	-0.55	0.586	-1.701833	.9612615
power	-.2152959	.673576	-0.32	0.749	-1.535481	1.104889
coreg	1.174302	.7515658	1.56	0.118	-.2987395	2.647344
_cons	-.1935655	.5524132	-0.35	0.726	-1.276275	.8891445
Expedited						
ses	-.0051872	.7067134	-0.01	0.994	-1.39032	1.379946
power	1.395351	.7150442	1.95	0.051	-.0061099	2.796812
coreg	1.155727	.7999691	1.44	0.149	-.4121833	2.723638
_cons	-1.27226	.6717181	-1.89	0.058	-2.588803	.0442834

```
267 . eststo gmlogit2: gmemultinomial outcome ses power coreg $cov , base(1)
    Iteration 0:   f(p) =  228.51136
    Iteration 1:   f(p) =   218.6103
    Iteration 2:   f(p) =  218.40351
    Iteration 3:   f(p) =   218.4028
    Iteration 4:   f(p) =   218.4028

    Generalized Maximum Entropy (MLogit)              Number of obs      =     52
                                                      Entropy for probs. =   48.1
                                                      Normalized entropy = 0.8414
                                                      Ent. ratio stat.   =   11.4
    Criterion F (log L) = -218.4028                   Pseudo R2          = 0.1586
    ------------------------------------------------------------------------------
    > ----
            outcome |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interv
    > al]
    ------------------------------------------------------------------------------
    > ----
    Bribe           |
                ses |  -.9051386   .7656706    -1.18   0.237    -2.405825    .5955
    > 481
              power |  -.1768986   .7796545    -0.23   0.821    -1.704993    1.351
    > 196
              coreg |   1.377117   .7984906     1.72   0.085    -.1878961     2.94
    > 213
       numofficials |   .6199246   .2414182     2.57   0.010     .1467537    1.093
    > 096
    other_customers |  -1.041101   1.027899    -1.01   0.311    -3.055746     .973
    > 544
              _cons |  -1.346564    .797376    -1.69   0.091    -2.909392    .2162
    > 647
    ------------------------------------------------------------------------------
    > ----
    Expedited       |
                ses |  -.4059286   .7614599    -0.53   0.594    -1.898363    1.086
    > 505
              power |    2.06948   .8810867     2.35   0.019     .3425823    3.796
    > 379
              coreg |   1.342749   .8450604     1.59   0.112     -.313539    2.999
    > 037
       numofficials |   .4097476   .2387569     1.72   0.086    -.0582073    .8777
    > 025
    other_customers |   .7410495   .9820103     0.75   0.450    -1.183655    2.665
    > 754
              _cons |  -2.642582   1.005983    -2.63   0.009    -4.614271   -.6708
    > 925
    ------------------------------------------------------------------------------
    > ----
```

```
268 .
269 . * Table Table C.6 (see R code in ESCOMbayesian_SR.R)
270 .
271 . * Figures C.1-C.4 (see R code in ESCOMbayesian_SR.R)
272 .
273 . * Table F.1: Results of Pre-Specified Analyses in ESCOM Context
274 . global cov numofficials superior_official

275 . eststo bribepaid_e: qui reg bribe_asked ses power coreg $cov

276 . eststo bribeamount_e: qui reg bribe_amount ses power coreg $cov

277 . eststo expedited_e: qui reg expedited ses power coreg $cov

278 .
279 .         *H14(b): Matched ethnicity will increase the likelihood of solicitin
    > g a bribe.
280 .         ttest bribe_asked, by(coreg)

Two-sample t test with equal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
Differen |      36    .2777778    .0757095    .4542568    .1240794    .4314762
Same Reg |      16       .4375    .1280869    .5123475    .1644893    .7105107
---------+--------------------------------------------------------------------
combined |      52    .3269231    .0656856    .4736655    .1950538    .4587924
---------+--------------------------------------------------------------------
    diff |           -.1597222    .1419489               -.444835    .1253906
------------------------------------------------------------------------------
    diff = mean(Differen) - mean(Same Reg)                        t =  -1.1252
Ho: diff = 0                                     degrees of freedom =       50

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1329         Pr(|T| > |t|) = 0.2659          Pr(T > t) = 0.8671

281 .     est r bribepaid_e

------------------------------------------------------------------------------
Model bribepaid_e
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =        52
-------------+----------------------------------   F(5, 46)        =      1.85
       Model |   1.9187811         5   .38375622   Prob > F        =    0.1212
    Residual |  9.52352659        46  .207033187   R-squared       =    0.1677
-------------+----------------------------------   Adj R-squared   =    0.0772
       Total |  11.4423077        51  .224358974   Root MSE        =    .45501
```

```
------------------------------------------------------------------------------
> ------
      bribe_asked |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
> rval]
------------------------------------------------------------------------------
> ------
             ses |  -.2057807   .1416551    -1.45   0.153    -.4909176    .07
> 93561
           power |   -.191131   .1393024    -1.37   0.177    -.4715323    .08
> 92702
           coreg |   .1518569   .1410144     1.08   0.287    -.1319904    .43
> 57042
     numofficials |   .0668193   .0342144     1.95   0.057    -.0020507    .13
> 56892
superior_official |  -.2228177   .2033512    -1.10   0.279    -.6321423     .1
> 86507
           _cons |   .3273836   .1697841     1.93   0.060    -.0143739    .66
> 91412
------------------------------------------------------------------------------
> ------
```

```
282 .         ttest bribe_asked, by(coeth)

Two-sample t test with equal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
Differen |      38    .3157895    .0764175    .4710691    .1609529     .470626
Same Eth |      11    .4545455    .1574592     .522233    .1037046    .8053863
---------+--------------------------------------------------------------------
combined |      49    .3469388    .0687041    .4809288    .2087999    .4850777
---------+--------------------------------------------------------------------
    diff |           -.138756     .165168               -.4710312    .1935192
------------------------------------------------------------------------------
    diff = mean(Differen) - mean(Same Eth)                        t =  -0.8401
Ho: diff = 0                                     degrees of freedom =       47

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2026         Pr(|T| > |t|) = 0.4051          Pr(T > t) = 0.7974
```

```
283 .         reg bribe_asked ses power coeth $cov
```

Source	SS	df	MS	Number of obs	=	49
				F(5, 43)	=	1.87
Model	1.98315512	5	.396631025	Prob > F	=	0.1195
Residual	9.11888569	43	.212067109	R-squared	=	0.1786
				Adj R-squared	=	0.0831
Total	11.1020408	48	.231292517	Root MSE	=	.46051

bribe_asked	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ses	-.2297093	.1456618	-1.58	0.122	-.5234643	.040457
power	-.2287903	.1399442	-1.63	0.109	-.5110146	.034341
coeth	.1990729	.1633777	1.22	0.230	-.1304096	.585554
numofficials	.0634101	.0345964	1.83	0.074	-.0063602	.131804
superior_official	-.0772291	.2372564	-0.33	0.746	-.5557023	.401244
_cons	.3708029	.1633228	2.27	0.028	.0414312	.701746

```
284 .
285 .         *H15: Matched ethnicity will decrease the amount of the bribe solici
    > ted.
286 .         ttest bribe_amount, by(coreg)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Differen	18	11761.11	3381.062	14344.63	4627.695	18894.53
Same Reg	13	13207.69	3772.479	13601.87	4988.167	21427.22
combined	31	12367.74	2483.058	13825.08	7296.66	17438.82
diff		-1446.581	5110.969		-11899.69	9006.525

diff = mean(**Differen**) - mean(**Same Reg**) t = **-0.2830**

Ho: diff = 0 degrees of freedom = **29**

```
     Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3896         Pr(|T| > |t|) = 0.7792          Pr(T > t) = 0.6104

287 .         est r bribeamount_e

------------------------------------------------------------------------------
Model bribeamount_e
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =        31
-------------+----------------------------------   F(5, 25)        =      0.96
       Model |  922632851          5  184526570   Prob > F        =    0.4615
    Residual |  4.8114e+09        25  192454196   R-squared       =    0.1609
-------------+----------------------------------   Adj R-squared   =   -0.0069
       Total |  5.7340e+09        30  191132925   Root MSE        =     13873

------------------------------------------------------------------------------
> ------
     bribe_amount |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
> rval]
------------------+-----------------------------------------------------------
> ------
             ses |   -3048.72   5856.163    -0.52   0.607    -15109.71    901
> 2.273
           power |  -7962.273   5661.812    -1.41   0.172    -19622.99    369
> 8.449
           coreg |     1873.5   6256.697     0.30   0.767    -11012.41    147
> 59.41
    numofficials |   1535.927   1551.756     0.99   0.332    -1659.975    473
> 1.828
superior_official |   -6269.03   8565.174    -0.73   0.471    -23909.34    113
> 71.28
           _cons |   13482.45   8835.016     1.53   0.140     -4713.61     31
> 678.5
------------------+-----------------------------------------------------------
> ------
```

```
288 .         ttest bribe_amount, by(coeth)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Differen	**20**	**12670**	**3126.795**	**13983.45**	**6125.543**	**19214.46**
Same Eth	**9**	**14444.44**	**4819.264**	**14457.79**	**3331.201**	**25557.69**
combined	**29**	**13220.69**	**2580.47**	**13896.26**	**7934.836**	**18506.54**
diff		**-1774.444**	**5669.848**		**-13408.01**	**9859.124**

```
    diff = mean(Differen) - mean(Same Eth)                        t =  -0.3130
Ho: diff = 0                                     degrees of freedom =       27

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3784         Pr(|T| > |t|) = 0.7567          Pr(T > t) = 0.6216
```

```
289 .         reg bribe_amount ses power coeth $cov
```

Source	SS	df	MS		
				Number of obs	= **29**
				F(5, 23)	= **1.20**
Model	**1.1201e+09**	**5**	**224022311**	Prob > F	= **0.3394**
Residual	**4.2869e+09**	**23**	**186385045**	R-squared	= **0.2072**
				Adj R-squared	= **0.0348**
Total	**5.4070e+09**	**28**	**193105985**	Root MSE	= **13652**

bribe_amount	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ses	**-4628.446**	**5974.435**	**-0.77**	**0.446**	**-16987.51**	**7730.613**
power	**-9663.918**	**5421.901**	**-1.78**	**0.088**	**-20879.97**	**1552.139**
coeth	**5954.5**	**6222.143**	**0.96**	**0.349**	**-6916.985**	**18825.98**
numofficials	**1600.712**	**1429.814**	**1.12**	**0.274**	**-1357.083**	**4558.506**
superior_official	**558.8322**	**9008.84**	**0.06**	**0.951**	**-18077.37**	**19195.04**
_cons	**13927.48**	**7204.064**	**1.93**	**0.066**	**-975.261**	**28830.22**

```
290 .
291 .         *H16: Matched ethnicity will have no effect on the likelihood that e
    > xpedited ///
    >               *service is offered without a bribe.
292 .         ttest expedited, by(coreg)

    Two-sample t test with equal variances

       Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
    ---------+--------------------------------------------------------------------
    Differen |      36    .2777778    .0757095    .4542568    .1240794    .4314762
    Same Reg |      16       .375        .125          .5    .1085688    .6414312
    ---------+--------------------------------------------------------------------
    combined |      52    .3076923    .0646283    .4660414    .1779456    .4374391
    ---------+--------------------------------------------------------------------
        diff |           -.0972222    .1407514               -.3799297    .1854853
    ------------------------------------------------------------------------------
        diff = mean(Differen) - mean(Same Reg)                        t =  -0.6907
    Ho: diff = 0                                     degrees of freedom =       50

        Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
     Pr(T < t) = 0.2465         Pr(|T| > |t|) = 0.4929          Pr(T > t) = 0.7535

293 .         est r expedited_e

    ------------------------------------------------------------------------------
    Model expedited_e
    ------------------------------------------------------------------------------

          Source |       SS           df       MS      Number of obs   =        52
    -------------+----------------------------------   F(5, 46)        =      2.36
           Model |  2.26299396         5  .452598792   Prob > F        =    0.0546
        Residual |  8.81392912        46  .191607155   R-squared       =    0.2043
    -------------+----------------------------------   Adj R-squared   =    0.1178
           Total |  11.0769231        51   .21719457   Root MSE        =    .43773

    ------------------------------------------------------------------------------
    > ------
            expedited |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
    > rval]
    ------------------------------------------------------------------------------
    > ------
                  ses |   .1085487   .1362756     0.80   0.430    -.1657597    .38
    > 28572
                power |   .4350026   .1340123     3.25   0.002     .1652499    .70
    > 47553
                coreg |   .1753899   .1356592     1.29   0.203     -.097678    .44
    > 84578
         numofficials |   .0328886    .032915     1.00   0.323     -.033366    .09
```

```
> 91431
superior_official |   .3709759   .1956287     1.90   0.064    -.0228042     .7
> 64756
            _cons |  -.1462742   .1633363    -0.90   0.375    -.4750532    .18
> 25047
------------------+------------------------------------------------------------
> ------

294 .         ttest expedited, by(coeth)

Two-sample t test with equal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
Differen |      38    .2631579    .0723927    .4462583    .1164764    .4098394
Same Eth |      11    .3636364      .15212     .504525    .0246919    .7025809
---------+--------------------------------------------------------------------
combined |      49    .2857143    .0652051    .4564355    .1546107    .4168179
---------+--------------------------------------------------------------------
    diff |           -.1004785    .1572471               -.4168189    .2158619
------------------------------------------------------------------------------
    diff = mean(Differen) - mean(Same Eth)                        t =  -0.6390
Ho: diff = 0                                     degrees of freedom =       47

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2630         Pr(|T| > |t|) = 0.5259          Pr(T > t) = 0.7370

295 .         reg expedited ses power coeth $cov

      Source |       SS           df       MS      Number of obs   =        49
-------------+----------------------------------   F(5, 43)        =      2.40
       Model |  2.18271015         5  .436542031   Prob > F        =    0.0525
    Residual |  7.81728985        43  .181797438   R-squared       =    0.2183
-------------+----------------------------------   Adj R-squared   =    0.1274
       Total |         10        48  .208333333   Root MSE        =    .42638

------------------+------------------------------------------------------------
> ------
        expedited |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
> rval]
------------------+------------------------------------------------------------
> ------
              ses |   .1073967   .1348661     0.80   0.430    -.1645868    .37
> 93801
            power |    .430429   .1295723     3.32   0.002     .1691216    .69
> 17364
            coeth |   .0842009    .151269     0.56   0.581    -.2208621     .3
> 89264
     numofficials |    .033326   .0320323     1.04   0.304    -.0312733    .09
```

```
> 79253
superior_official |   .1394193   .2196722     0.63   0.529     -.303592    .58
> 24306
            _cons |  -.1054874   .1512182    -0.70   0.489    -.4104479     .1
> 99473
------------------+------------------------------------------------------------

> ------

296 .
297 .         *H17: Political connections will decrease the likelihood of soliciti
    > ng a bribe.
298 .         ttest bribe_asked, by(power)

Two-sample t test with equal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
Not Conn |      26    .4230769    .0988095    .5038315     .219575    .6265789
Connecte |      26    .2307692     .084265    .4296689    .0572222    .4043163
---------+--------------------------------------------------------------------
combined |      52    .3269231    .0656856    .4736655    .1950538    .4587924
---------+--------------------------------------------------------------------
    diff |            .1923077    .1298611               -.068526    .4531414
------------------------------------------------------------------------------
    diff = mean(Not Conn) - mean(Connecte)                        t =   1.4809
Ho: diff = 0                                     degrees of freedom =       50

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9275         Pr(|T| > |t|) = 0.1449          Pr(T > t) = 0.0725

299 .         est r bribepaid_e

------------------------------------------------------------------------------
Model bribepaid_e
------------------------------------------------------------------------------

      Source |       SS       df       MS      Number of obs   =        52
-------------+------------------------------   F(5, 46)        =      1.85
       Model |  1.9187811      5  .38375622     Prob > F        =    0.1212
    Residual |  9.52352659     46 .207033187    R-squared       =    0.1677
-------------+------------------------------   Adj R-squared   =    0.0772
       Total |  11.4423077     51 .224358974    Root MSE        =    .45501
```

```
------------------------------------------------------------------------------
> ------
      bribe_asked |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
> rval]
------------------------------------------------------------------------------
> ------
              ses |  -.2057807   .1416551    -1.45   0.153    -.4909176    .07
> 93561
            power |   -.191131   .1393024    -1.37   0.177    -.4715323    .08
> 92702
            coreg |   .1518569   .1410144     1.08   0.287    -.1319904    .43
> 57042
     numofficials |   .0668193   .0342144     1.95   0.057    -.0020507    .13
> 56892
superior_official |  -.2228177   .2033512    -1.10   0.279    -.6321423     .1
> 86507
            _cons |   .3273836   .1697841     1.93   0.060    -.0143739    .66
> 91412
------------------------------------------------------------------------------
> ------

300 .
301 .         *H18: Political connections will decrease the amount of the bribe so
    > licited.
302 .         ttest bribe_amount, by(power)

Two-sample t test with equal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
Not Conn |      14    16671.43    3174.996    11879.75    9812.268    23530.59
Connecte |      17    8823.529     3549.27    14634.02    1299.413    16347.65
---------+--------------------------------------------------------------------
combined |      31    12367.74    2483.058    13825.08     7296.66    17438.82
---------+--------------------------------------------------------------------
    diff |            7847.899    4861.086               -2094.137    17789.94
------------------------------------------------------------------------------
    diff = mean(Not Conn) - mean(Connecte)                        t =   1.6144
Ho: diff = 0                                     degrees of freedom =       29

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9414         Pr(|T| > |t|) = 0.1173          Pr(T > t) = 0.0586
```

```
303 .         est r bribeamount_e
```

Model **bribeamount_e**

Source	SS	df	MS		
Model	**922632851**	**5**	**184526570**	Number of obs	= **31**
				F(5, 25)	= **0.96**
Residual	**4.8114e+09**	**25**	**192454196**	Prob > F	= **0.4615**
				R-squared	= **0.1609**
				Adj R-squared	= **-0.0069**
Total	**5.7340e+09**	**30**	**191132925**	Root MSE	= **13873**

bribe_amount	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ses	**-3048.72**	**5856.163**	**-0.52**	**0.607**	**-15109.71**	**9012.273**
power	**-7962.273**	**5661.812**	**-1.41**	**0.172**	**-19622.99**	**3698.449**
coreg	**1873.5**	**6256.697**	**0.30**	**0.767**	**-11012.41**	**14759.41**
numofficials	**1535.927**	**1551.756**	**0.99**	**0.332**	**-1659.975**	**4731.828**
superior_official	**-6269.03**	**8565.174**	**-0.73**	**0.471**	**-23909.34**	**11371.28**
_cons	**13482.45**	**8835.016**	**1.53**	**0.140**	**-4713.61**	**31678.5**

```
304 .
305 .         *H19: Political connections will increase the likelihood that expedited service ///
>              *is offered without a bribe.
```

```
306 .         ttest expedited, by(power)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Not Conn	**26**	**.1538462**	**.0721602**	**.3679465**	**.0052294**	**.302463**
Connecte	**26**	**.4615385**	**.0997037**	**.5083911**	**.2561948**	**.6668821**
combined	**52**	**.3076923**	**.0646283**	**.4660414**	**.1779456**	**.4374391**
diff		**-.3076923**	**.1230769**		**-.5548996**	**-.060485**

```
    diff = mean(Not Conn) - mean(Connecte)                        t =  -2.5000
Ho: diff = 0                                     degrees of freedom =       50

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0079         Pr(|T| > |t|) = 0.0157          Pr(T > t) = 0.9921

307 .         est r expedited_e

Model expedited_e
```

Source	SS	df	MS		
				Number of obs	= **52**
				F(5, 46)	= **2.36**
Model	**2.26299396**	**5**	**.452598792**	Prob > F	= **0.0546**
Residual	**8.81392912**	**46**	**.191607155**	R-squared	= **0.2043**
				Adj R-squared	= **0.1178**
Total	**11.0769231**	**51**	**.21719457**	Root MSE	= **.43773**

expedited	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ses	**.1085487**	**.1362756**	**0.80**	**0.430**	**-.1657597**	**.38572**
power	**.4350026**	**.1340123**	**3.25**	**0.002**	**.1652499**	**.70547**
coreg	**.1753899**	**.1356592**	**1.29**	**0.203**	**-.097678**	**.44584**
numofficials	**.0328886**	**.032915**	**1.00**	**0.323**	**-.033366**	**.09191**
superior_official	**.3709759**	**.1956287**	**1.90**	**0.064**	**-.0228042**	**.764756**
_cons	**-.1462742**	**.1633363**	**-0.90**	**0.375**	**-.4750532**	**.18**

```
> 25047
```

```
> ———
```

```
308 .
309 .         *H20: High SES will increase the likelihood of soliciting a bribe.
310 .         ttest bribe_asked, by(ses)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Poor	**31**	**.3548387**	**.0873553**	**.4863735**	**.1764355**	**.5332419**
Rich	**21**	**.2857143**	**.1010153**	**.46291**	**.0750002**	**.4964284**
combined	**52**	**.3269231**	**.0656856**	**.4736655**	**.1950538**	**.4587924**
diff		**.0691244**	**.1348481**		**-.2017259**	**.3399748**

diff = mean(**Poor**) - mean(**Rich**) t = **0.5126**
Ho: diff = 0 degrees of freedom = **50**

Ha: diff < 0 — Pr(T < t) = **0.6948**
Ha: diff != 0 — Pr(|T| > |t|) = **0.6105**
Ha: diff > 0 — Pr(T > t) = **0.3052**

```
311 .         est r bribepaid_e
```

Model **bribepaid_e**

Source	SS	df	MS		
				Number of obs	= **52**
				F(5, 46)	= **1.85**
Model	**1.9187811**	**5**	**.38375622**	Prob > F	= **0.1212**
Residual	**9.52352659**	**46**	**.207033187**	R-squared	= **0.1677**
				Adj R-squared	= **0.0772**
Total	**11.4423077**	**51**	**.224358974**	Root MSE	= **.45501**

```
------------------------------------------------------------------------------
> ------
      bribe_asked |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
> rval]
------------------------------------------------------------------------------
> ------
              ses |  -.2057807   .1416551    -1.45   0.153    -.4909176    .07
> 93561
            power |   -.191131   .1393024    -1.37   0.177    -.4715323    .08
> 92702
            coreg |   .1518569   .1410144     1.08   0.287    -.1319904    .43
> 57042
     numofficials |   .0668193   .0342144     1.95   0.057    -.0020507    .13
> 56892
superior_official |  -.2228177   .2033512    -1.10   0.279    -.6321423     .1
> 86507
            _cons |   .3273836   .1697841     1.93   0.060    -.0143739    .66
> 91412
------------------------------------------------------------------------------
> ------

312 .
313 .         *H21: High SES will increase the amount of the bribe solicited.
314 .         ttest bribe_amount, by(ses)

Two-sample t test with equal variances

   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
    Poor |      19    12194.74    2967.844    12936.53    5959.528    18429.95
    Rich |      12    12641.67    4539.514    15725.34    2650.263    22633.07
---------+--------------------------------------------------------------------
combined |      31    12367.74    2483.058    13825.08     7296.66    17438.82
---------+--------------------------------------------------------------------
    diff |           -446.9298    5184.265               -11049.94    10156.08
------------------------------------------------------------------------------
    diff = mean(Poor) - mean(Rich)                                t =  -0.0862
Ho: diff = 0                                     degrees of freedom =       29

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.4659         Pr(|T| > |t|) = 0.9319          Pr(T > t) = 0.5341
```

```
315 .         est r bribeamount_e
```

Model **bribeamount_e**

Source	SS	df	MS	Number of obs	=	**31**
				F(5, 25)	=	**0.96**
Model	**922632851**	**5**	**184526570**	Prob > F	=	**0.4615**
Residual	**4.8114e+09**	**25**	**192454196**	R-squared	=	**0.1609**
				Adj R-squared	=	**-0.0069**
Total	**5.7340e+09**	**30**	**191132925**	Root MSE	=	**13873**

bribe_amount	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ses	**-3048.72**	**5856.163**	**-0.52**	**0.607**	**-15109.71**	**9012.273**
power	**-7962.273**	**5661.812**	**-1.41**	**0.172**	**-19622.99**	**3698.449**
coreg	**1873.5**	**6256.697**	**0.30**	**0.767**	**-11012.41**	**14759.41**
numofficials	**1535.927**	**1551.756**	**0.99**	**0.332**	**-1659.975**	**4731.828**
superior_official	**-6269.03**	**8565.174**	**-0.73**	**0.471**	**-23909.34**	**11371.28**
_cons	**13482.45**	**8835.016**	**1.53**	**0.140**	**-4713.61**	**31678.5**

```
316 .
317 .         *H22: High SES will decrease the likelihood that expedited service i
    > s offered ///
    >                   *without a bribe.
```

```
318 .         ttest expedited, by(ses)

Two-sample t test with equal variances

   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
    Poor |      31    .2903226    .0828725    .4614144    .1210744    .4595707
    Rich |      21    .3333333    .1054093    .4830459    .1134535    .5532132
---------+--------------------------------------------------------------------
combined |      52    .3076923    .0646283    .4660414    .1779456    .4374391
---------+--------------------------------------------------------------------
    diff |           -.0430108    .1328866               -.3099214    .2238999
------------------------------------------------------------------------------
    diff = mean(Poor) - mean(Rich)                                t =  -0.3237
Ho: diff = 0                                     degrees of freedom =       50

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3738         Pr(|T| > |t|) = 0.7475          Pr(T > t) = 0.6262

319 .         est r expedited_e

------------------------------------------------------------------------------
Model expedited_e
------------------------------------------------------------------------------

      Source |       SS           df       MS      Number of obs   =        52
-------------+----------------------------------   F(5, 46)        =      2.36
       Model |  2.26299396         5  .452598792   Prob > F        =    0.0546
    Residual |  8.81392912        46  .191607155   R-squared       =    0.2043
-------------+----------------------------------   Adj R-squared   =    0.1178
       Total |  11.0769231        51   .21719457   Root MSE        =    .43773

------------------------------------------------------------------------------
> -----
       expedited |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inte
> rval]
-------------------------------------------------------------------------------
> -----
             ses |   .1085487   .1362756     0.80   0.430    -.1657597    .38
> 28572
           power |   .4350026   .1340123     3.25   0.002     .1652499    .70
> 47553
           coreg |   .1753899   .1356592     1.29   0.203     -.097678    .44
> 84578
     numofficials |   .0328886    .032915     1.00   0.323     -.033366    .09
> 91431
superior_official |   .3709759   .1956287     1.90   0.064    -.0228042     .7
> 64756
           _cons |  -.1462742   .1633363    -0.90   0.375    -.4750532    .18
```

```
> 25047
```

```
> ------

320 .
321 .
322 . * Close log and convert log file
323 . log close
        name:  <unnamed>
         log:  /Users/robinson.1012/Dropbox/Research/Corruption/Submissions/JEPS
> /ReplicationFiles/ESCOMlog_SR.smcl
  log type:  smcl
 closed on:  19 Nov 2018, 16:05:12
```