Appendix 1

Research Instruments

The full version of the R-SPQ-2F

This questionnaire has a number of questions about your attitudes towards your learning and your usual way of studying. There is no right way of studying. It all depends on what suits your own style. Use this scale to mark your answers to the following questions on the answer sheet.

A – this item is <u>never</u> or <u>only rarely</u> true of me.

B – this item is <u>sometimes</u> true of me.

C – this item is true of me about <u>half the time</u>.

D – this item is <u>frequently</u> true of me.

E – this item is <u>always</u> or <u>almost always</u> true of me.

Please choose the one most appropriate response to each question. Circle on the Answer Sheet that best fits your immediate reaction. Do not spend a long time on each item: your first reaction is probably the best one. Please answer each item. Do not worry about projecting a good image. Your answers are confidential. Thank you for your cooperation.

1.   I find that at times studying gives me a feeling of deep personal satisfaction.

2.   I find that I have to do enough work on a topic so that I can form my own conclusions before I am satisfied.

3.   My aim is to pass the course while doing as little work as possible.

4.   I only study seriously what's given out in class or in the course outlines.

5.   I feel that virtually any topic can be highly interesting once I get into it.

6.   I find most new topics interesting and often spend extra time trying to obtain more information about them.

7.   I do not find my course very interesting so I keep my work to the minimum.

8.   I learn some things by rote, going over and over them until I know them by heart even though I do not understand them.

9.   I find that studying academic topics can at times be as exciting as a

good novel or movie.

10. I test myself on important topics until I understand them completely.

11. I find I can get by in most assessments by memorizing key sections rather than trying to understand them.

12. I generally restrict my study to what is specifically set as I think it is unnecessary to do anything extra.

13. I work hard at my studies because I find the material interesting.

14. I spend a lot of my free time finding out more about interesting topics which have been discussed in different classes.

15. I find it is not helpful to study topics in depth. It confuses and wastes time, when all you need is a passing acquaintance with topics.

16. I believe that lecturers shouldn't expect students to spend significant amounts of time studying material everyone knows won't be examined.

17. I come to most classes with questions in mind that I want answering.

18. I make a point of looking at most of the suggested readings that go with the lectures.

19. I see no point in learning material which is not likely to be in the examination.

20. I find the best way to pass examinations is to try to remember answers to likely questions.

The full version of the Revised CDSII

QUESTIONAIRE ON CAUSES OF ACADEMIC SUCCESS AND FAILURE

(A)   Suppose at the end of this academic year, you find that your academic results are good and above the average, or they are bad and below average, what do you think is the cause of your academic success or failure? Academic success or failure can be due to various reasons, e.g. high/ low academic ability, hard-working/ laziness, good/ bad luck, work being easy/ difficult, etc. If you think there is more than one reason, give the one that you think to be most dominant.

1. Male / Female

2. The cause of my academic success or failure is:

_____

(B)   Think about the reason you have written above. The items below concern your impressions or opinions of this cause of your academic success and failure. Circle one number for each of the follow questions.

Is the cause of academic success and failure you gave about something:

1.That reflects an aspect of yourself	9 8 7 6 5 4 3 2 1	reflects of the situations
2. Manageable by you	9 8 7 6 5 4 3 2 1	not manageable by you
3. Permanent	9 8 7 6 5 4 3 2 1	temporary
4. You can regulate	9 8 7 6 5 4 3 2 1	you cannot regulate
5. Over which others have control	9 8 7 6 5 4 3 2 1	over which others have no control
6. Inside of you	9 8 7 6 5 4 3 2 1	outside of you
7. Stable over time	9 8 7 6 5 4 3 2 1	variable over time
8. Under the power of other people	9 8 7 6 5 4 3 2 1	not under power of other people
9. Over which you have power	9 8 7 6 5 4 3 2 1	over which you have no power
10. Unchangeable	9 8 7 6 5 4 3 2 1	changeable
11. Other people can regulate	9 8 7 6 5 4 3 2 1	other people cannot regulate

Extracurricular Activities Experiences Survey

Extracurricular activities refer to your activities that fall outside the realm of the curriculum of primary and secondary education. Such activities are generally voluntary and organized by student club or societies covering a range of sporting, social and cultural activities. For example, basketball club, swimming club, drama club, singing society, debating society, etc.

Please write down your years of extracurricular activities experiences in primary and secondary education: _____

Appendix 2
Survey Letter

Dear Graduate,

Teaching and learning are very important to higher education institutions. In an effort to understand the relationship between individual student characteristics, learning approaches and academic achievement of both full-time and part-time sub-degree students, we are seeking your feedback on education you received in your current sub-degree programme. It is important that feedback is obtained from full-time and part-time students in our study.

The purpose of this questionnaire is to find out about sub-degree students' learning experience in a broad sense. Your feedback will only be used in the research study which is called "The relationship between gender, age, study mode, locus of control, extracurricular activities, learning approaches and academic achievement: the case of full-time and part-time Hong Kong Chinese sub-degree students" which is possible to provide lecturers and administrators with information which will help them shape courses and the learning environment to better suit sub-degree students needs. Your GPA will be used to investigate the relationship between learning approaches and academic achievement. Please complete the enclosed questionnaire and return it in the reply envelope provided. **All individual responses will be kept confidential.**

It is in your interest to cooperate by returning the questionnaire. No remuneration will be offered and the data will only be used for the current study.

Thank you for your cooperation,

Ringo Chan

Appendix 3

Statistical Results

Full-time students

Statistics/Data Analysis

1 . summarize

Variable	Obs	Mean	Std. Dev.	Min	Max
hd	131	66	37.96051	1	131
gender	131	.5114504	.5017878	0	1
result	131	3.549618	1.031904	1	5
da	131	30.41221	5.884622	14	45
sa	131	28.29771	5.52852	13	42
dm	131	15.00763	3.067187	6	23
ds	131	15.40458	3.334617	5	25
sm	131	13.17557	3.478463	6	25
ss	131	15.12214	2.982056	6	23
lc	131	.389313	.4894663	0	1
extraact	131	.4351145	.4976752	0	1

Part-time students

1 . summarize

Variable	Obs	Mean	Std. Dev.	Min	Max
certpt	130	65.5	37.67183	1	130
gender	130	.6153846	.4883863	0	1
result	130	3.384615	1.177203	1	5
da	130	34.36923	5.894602	22	50
sa	130	27.81538	5.900709	12	41
dm	130	17.52308	3.037786	11	25
ds	130	16.84615	3.431413	8	25
sm	130	13.05385	3.37182	5	21
ss	130	14.76154	3.418608	5	22
lc	130	.4	.4917931	0	1
extraact	130	.3615385	.4823046	0	1

```
 ___   ___  ___   ___    ___ tm
/__   /  __/  /  __/
__/  /  /__/  /  /__/
```
Statistics/Data Analysis

1 . do "D: \ SPACE-UoL \ Ringo \ ringo2fulltime.dta

2 . tabulate cronbach alpha   Full-time students

3 . summarize

Variable	Cronbach alpha
sa	0.73
da	0.76
sm	0.61
dm	0.60
ss	0.63
ds	0.66

4 . do "D: \ SPACE-UoL \ Ringo \ ringo2parttime.dta

5 . tabulate cronbach alpha   Part-time students

6 . summarize

Variable	Cronbach alpha
sa	0.75
da	0.78
sm	0.60
dm	0.62
ss	0.62
ds	0.69

Full-time students

```
                                    ___  ___  ___  ___  ___tm
                                   /__  /  /  /   /  /  /___/
                                  ___/ /  /  /__/ /  /  /__/
                                  Statistics/Data Analysis
```

1 . use "D:\SPACE-UoL\Ringo\ringo2.dta", clear

2 . do "D:\SPACE-UoL\Ringo\Chi2 full time.do"

3 . summarize

Variable	Obs	Mean	Std. Dev.	Min	Max
obs	261	131	75.48841	1	261
girl	261	.5632184	.4969402	0	1
result	261	3.467433	1.107619	1	5
lowresult	261	.4827586	.5006627	0	1
sa	261	.2452107	.4310386	0	1
dm	261	7.532567	7.824757	0	23
ds	261	7.731801	8.069226	0	25
sm	261	6.613027	7.043796	0	25
ss	261	7.590038	7.863532	0	23
lc	261	.394636	.4897114	0	1
extraact	131	.4351145	.4976752	0	1
pt	261	.4980843	.5009569	0	1
workexp	130	.3615385	.4823046	0	1

4 .
5 . * gender & leaning approach
6 . tabulate girl sa if pt==0, all exact

	LP (DA=0, SA=1)		
Gender	0	1	Total
0	49	15	64
1	48	19	67
Total	97	34	131

```
            Pearson chi2(1) =   0.4124    Pr = 0.521
   likelihood-ratio chi2(1) =   0.4133    Pr = 0.520
                 Cramér's V =   0.0561
                      gamma =   0.1278   ASE = 0.197
            Kendall's tau-b =   0.0561   ASE = 0.087
            Fisher's exact =                   0.555
    1-sided Fisher's exact =                   0.329
```

7 .
8 . exactcc girl sa if pt==0

	LP [DA=0, SA=1]			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	19	48	67	0.2836
Controls	15	49	64	0.2344
Total	34	97	131	0.2595

	Point estimate	[95% Conf. Interval]	
		Cornfield's limits	
Odds ratio	1.293056	.5497536 3.052338	Adjusted
		.5945439 2.810306	Unadjusted
Attr. frac. ex.	.226638	-.8189967 .6723823	Adjusted
		-.6819617 .6441668	Unadjusted
Attr. frac. pop	.0642705		

```
                       chi2(1) =    0.41   Pr>chi2 = 0.5207
        Yates' adjusted chi2(1) =   0.20   Pr>chi2 = 0.6579
```

```
9  .
10 . phi girl sa if pt==0
```

| | LP (DA=0, SA=1) | | |
Gender	0	1	Total
0	49	15	64
1	48	19	67
Total	97	34	131

```
        Pearson chi2(1) =   0.4124   Pr = 0.521
phi = Cohen's w = fourfold point correlation = 0.0561   phi-squared = 0.0031
```

```
11 .
12 . * Local of control & leaning approach
13 . tabulate lc sa if pt==0, all exact
```

| | LP (DA=0, SA=1) | | |
LC	0	1	Total
0	69	11	80
1	28	23	51
Total	97	34	131

```
          Pearson chi2(1) =  15.9258   Pr = 0.000
   likelihood-ratio chi2(1) =  15.7414   Pr = 0.000
              Cramér's V =   0.3487
                   gamma =   0.6749   ASE = 0.117
         Kendall's tau-b =   0.3487   ASE = 0.084
         Fisher's exact =                    0.000
  1-sided Fisher's exact =                    0.000
```

```
14 .
15 . exactcc lc sa if pt==0
```

| | LP [DA=0, SA=1] | | | Proportion |
	Exposed	Unexposed	Total	Exposed
Cases	23	28	51	0.4510
Controls	11	69	80	0.1375
Total	34	97	131	0.2595

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	5.152597	2.061341	13.09259	Adjusted
		2.241248	11.82822	Unadjusted
Attr. frac. ex.	.8059231	.5148788	.9236209	Adjusted
		.5538201	.9154564	Unadjusted
Attr. frac. pop	.3634555			

```
                      chi2(1) =    15.93  Pr>chi2 = 0.0001
       Yates' adjusted chi2(1) =    14.34  Pr>chi2 = 0.0002
```

```
16 .
17 . phi lc sa if pt==0
```

| | LP (DA=0, SA=1) | | |
LC	0	1	Total
0	69	11	80
1	28	23	51
Total	97	34	131

```
        Pearson chi2(1) =  15.9258   Pr = 0.000
phi = Cohen's w = fourfold point correlation = 0.3487   phi-squared = 0.1216
```

18 .
19 . * Extracurricular activities & leaning approach
20 . tabulate extraact sa if pt==0, all exact

| | LP (DA=0, SA=1) | | |
ExtraAct	0	1	Total
0	63	11	74
1	34	23	57
Total	97	34	131

```
             Pearson chi2(1) =  10.8826   Pr = 0.001
    likelihood-ratio chi2(1) =  10.9197   Pr = 0.001
                 Cramér's V =   0.2882
                      gamma =   0.5897   ASE = 0.138
            Kendall's tau-b =   0.2882   ASE = 0.084
             Fisher's exact =                  0.001
     1-sided Fisher's exact =                  0.001
```

21 .
22 . exactcc extraact sa if pt==0

| | LP [DA=0, SA=1] | | | Proportion |
	Exposed	Unexposed	Total	Exposed
Cases	23	34	57	0.4035
Controls	11	63	74	0.1486
Total	34	97	131	0.2595

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	3.874332	1.571011	9.699581	Adjusted
		1.704775	8.788473	Unadjusted
Attr. frac. ex.	.741891	.3634672	.8969028	Adjusted
		.4134122	.8862146	Unadjusted
Attr. frac. pop	.2993595			

```
                      chi2(1) =   10.88  Pr>chi2 = 0.0010
         Yates' adjusted chi2(1) =    9.60  Pr>chi2 = 0.0019
```

23 .
24 . phi extraact sa if pt==0

| | LP (DA=0, SA=1) | | |
ExtraAct	0	1	Total
0	63	11	74
1	34	23	57
Total	97	34	131

```
          Pearson chi2(1) =  10.8826   Pr = 0.001
```
phi = Cohen's w = fourfold point correlation = 0.2882   phi-squared = 0.0831

25 .
26 . * Result & learning approach
27 . tabulate lowresult sa if pt==0, all exact

| | LP (DA=0, SA=1) | | |
Low result	0	1	Total
0	61	9	70
1	36	25	61
Total	97	34	131

```
            Pearson chi2(1) =   13.4177    Pr = 0.000
    likelihood-ratio chi2(1) =   13.7331    Pr = 0.000
              Cramér's V =    0.3200
                   gamma =    0.6495   ASE = 0.128
         Kendall's tau-b =    0.3200   ASE = 0.081
          Fisher's exact =                  0.000
    1-sided Fisher's exact =                0.000
```

28 .

29 . exactcc lowresult sa if pt==0

	LP [DA=0, SA=1] Exposed	Unexposed	Total	Proportion Exposed
Cases	25	36	61	0.4098
Controls	9	61	70	0.1286
Total	34	97	131	0.2595

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	4.70679	1.840213	12.31353	Adjusted
		2.003914	11.01946	Unadjusted
Attr. frac. ex.	.787541	.4565848	.9187885	Adjusted
		.5009767	.9092514	Unadjusted
Attr. frac. pop	.3227627			

```
                          chi2(1) =   13.42   Pr>chi2 = 0.0002
         Yates' adjusted chi2(1) =   11.99   Pr>chi2 = 0.0005
```

30 .

31 . phi lowresult sa if pt==0

Low result	LP (DA=0, SA=1) 0	1	Total
0	61	9	70
1	36	25	61
Total	97	34	131

```
        Pearson chi2(1) =   13.4177   Pr = 0.000
phi = Cohen's w = fourfold point correlation = 0.3200   phi-squared = 0.1024
```

32 .

33 . * Gender & result

34 . tabulate girl lowresult if pt==0, all exact

Gender	Low result 0	1	Total
0	28	36	64
1	42	25	67
Total	70	61	131

```
            Pearson chi2(1) =    4.7174    Pr = 0.030
    likelihood-ratio chi2(1) =    4.7448    Pr = 0.029
              Cramér's V =   -0.1898
                   gamma =   -0.3671   ASE = 0.154
         Kendall's tau-b =   -0.1898   ASE = 0.086
          Fisher's exact =                  0.036
    1-sided Fisher's exact =                0.023
```

```
35 .
36 . exactcc girl lowresult if pt==0
```

	Low result			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	25	42	67	0.3731
Controls	36	28	64	0.5625
Total	61	70	131	0.4656

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	.462963	.2161309	.9871955	Adjusted
		.2308819	.928332	Unadjusted
Prev. frac. ex.	.537037	.0128045	.7838691	Adjusted
		-3.331218	-.0772009	Unadjusted
Prev. frac. pop	.3020833			

```
                         chi2(1) =      4.72   Pr>chi2 = 0.0299
           Yates' adjusted chi2(1) =      3.99   Pr>chi2 = 0.0459
```

```
37 .
38 . phi girl lowresult if pt==0
```

	Low result		
Gender	0	1	Total
0	28	36	64
1	42	25	67
Total	70	61	131

```
         Pearson chi2(1) =    4.7174   Pr = 0.030
```
phi = Cohen's w = fourfold point correlation = 0.1898   phi-squared = 0.0360

```
39 .
40 . * Locus of control & result
41 . tabulate lc lowresult if pt==0, all exact
```

	Low result		
LC	0	1	Total
0	46	34	80
1	24	27	51
Total	70	61	131

```
            Pearson chi2(1) =    1.3646    Pr = 0.243
   likelihood-ratio chi2(1) =    1.3646    Pr = 0.243
               Cramér's V =    0.1021
                    gamma =    0.2070   ASE = 0.172
         Kendall's tau-b =    0.1021   ASE = 0.087
           Fisher's exact =               0.283
   1-sided Fisher's exact =               0.161
```

```
42 .
43 . exactcc lc lowresult if pt==0
```

	Low result			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	27	24	51	0.5294
Controls	34	46	80	0.4250
Total	61	70	131	0.4656

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	1.522059	.7075447	3.281745	Adjusted
		.7542443	3.071714	Unadjusted
Attr. frac. ex.	.3429952	-.4133384	.695284	Adjusted
		-.3258304	.6744489	Unadjusted

```
Attr. frac. pop |            .1815857              |
                +-------------------------------------------------
                              chi2(1) =      1.36  Pr>chi2 = 0.2427
              Yates' adjusted chi2(1) =      0.98  Pr>chi2 = 0.3229
```

44 .
45 . phi lc lowresult if pt==0

		Low result		
LC		0	1	Total
0		46	34	80
1		24	27	51
Total		70	61	131

```
        Pearson chi2(1) =   1.3646   Pr = 0.243
phi = Cohen's w = fourfold point correlation = 0.1021   phi-squared = 0.0104
```

```
                                                                tm

                                           Statistics/Data Analysis
```

1 . do "C:\DOCUME~1\ANDYCH~1\LOCALS~1\Temp\STD00000000.tmp"

2 . summarize

Variable	Obs	Mean	Std. Dev.	Min	Max
obs	261	131	75.48841	1	261
girl	261	.5632184	.4969402	0	1
result	261	3.467433	1.107619	1	5
lowresult	261	.4827586	.5006627	0	1
sa	261	.2452107	.4310386	0	1
dm	261	7.532567	7.824757	0	23
ds	261	7.731801	8.069226	0	25
sm	261	6.613027	7.043796	0	25
ss	261	7.590038	7.863532	0	23
lc	261	.394636	.4897114	0	1
extraact1	261	.2183908	.4139478	0	1
pt	261	.4980843	.5009569	0	1
workexp1	261	.1800766	.3849895	0	1
extraact	261	.3984674	.4905232	0	1
standardiz~1	261	.0001277	1.001346	-2.002179	1.645718
predictedv~e	261	.4827586	.2068549	.236624	.9849222
standardiz~e	261	4.48e-09	1	-1.18989	2.427613

3 .
4 . * gender & leaning approach
5 . tabulate girl sa if pt==1, all exact

	LP (DA=0, SA=1)		
Gender	0	1	Total
0	44	6	50
1	56	24	80
Total	100	30	130

```
             Pearson chi2(1) =     5.6160    Pr = 0.018
     likelihood-ratio chi2(1) =     6.0223    Pr = 0.014
                  Cram解's V =     0.2078
                      gamma =     0.5172    ASE = 0.183
             Kendall's tau-b =     0.2078    ASE = 0.077
               Fisher's exact =                   0.019
       1-sided Fisher's exact =                   0.014
```

6 .
7 . exactcc girl sa if pt==1

	LP [DA=0, SA=1]			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	24	56	80	0.3000
Controls	6	44	50	0.1200
Total	30	100	130	0.2308

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	3.142857	1.093513	9.453752	Adjusted
		1.208603	8.120659	Unadjusted
Attr. frac. ex.	.6818182	.0855165	.8942219	Adjusted
		.1725981	.8768573	Unadjusted
Attr. frac. pop	.2045455			

```
                      chi2(1) =     5.62   Pr>chi2 = 0.0178
        Yates' adjusted chi2(1) =     4.65   Pr>chi2 = 0.0311
```

8 .
9 . phi girl sa if pt==1

| | LP (DA=0, SA=1) | | |
Gender	0	1	Total
0	44	6	50
1	56	24	80
Total	100	30	130

Pearson chi2(1) =   5.6160   Pr = 0.018
phi = Cohen's w = fourfold point correlation = 0.2078   phi-squared = 0.0432

10 .
11 . * Local of control & leaning approach
12 . tabulate lc sa if pt==1, all exact

| | LP (DA=0, SA=1) | | |
LC	0	1	Total
0	69	9	78
1	31	21	52
Total	100	30	130

Pearson chi2(1)   =   14.6250   Pr = 0.000
likelihood-ratio chi2(1) =   14.5110   Pr = 0.000
Cramér's V   =   0.3354
gamma   =   0.6771   ASE = 0.123
Kendall's tau-b   =   0.3354   ASE = 0.084
Fisher's exact   =   0.000
1-sided Fisher's exact =   0.000

13 .
14 . exactcc lc sa if pt==1

| | LP [DA=0, SA=1] | | | Proportion |
	Exposed	Unexposed	Total	Exposed
Cases	21	31	52	0.4038
Controls	9	69	78	0.1154
Total	30	100	130	0.2308

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	5.193548	1.975766	13.95359	Adjusted
		2.16392	12.43058	Unadjusted
Attr. frac. ex.	.8074534	.4938672	.9283338	Adjusted
		.5378757	.9195532	Unadjusted
Attr. frac. pop	.326087			

chi2(1) =   14.63   Pr>chi2 = 0.0001
Yates' adjusted chi2(1) =   13.05   Pr>chi2 = 0.0003

15 .
16 . phi lc sa if pt==1

| | LP (DA=0, SA=1) | | |
LC	0	1	Total
0	69	9	78
1	31	21	52
Total	100	30	130

Pearson chi2(1) =   14.6250   Pr = 0.000
phi = Cohen's w = fourfold point correlation = 0.3354   phi-squared = 0.1125

```
17 .
18 . * Extracurricular activities & leaning approach
19 . tabulate extraact sa if pt==1, all exact
```

	LP (DA=0, SA=1)		
extraact	0	1	Total
0	72	11	83
1	28	19	47
Total	100	30	130

```
               Pearson chi2(1) =   12.4812    Pr = 0.000
      likelihood-ratio chi2(1) =   12.0974    Pr = 0.001
                   Cramér's V =    0.3099
                        gamma =    0.6325    ASE = 0.132
               Kendall's tau-b =    0.3099    ASE = 0.088
                Fisher's exact =                    0.001
        1-sided Fisher's exact =                    0.001
```

```
20 .
21 . exactcc extraact sa if pt==1
```

	LP [DA=0, SA=1]			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	19	28	47	0.4043
Controls	11	72	83	0.1325
Total	30	100	130	0.2308

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	4.441558	1.735746	11.53147	Adjusted
		1.897611	10.38554	Unadjusted
Attr. frac. ex.	.7748538	.423879	.9132808	Adjusted
		.4730216	.9037123	Unadjusted
Attr. frac. pop	.3132388			

```
                        chi2(1) =    12.48   Pr>chi2 = 0.0004
        Yates' adjusted chi2(1) =    11.00   Pr>chi2 = 0.0009
```

```
22 .
23 . phi extraact sa if pt==1
```

	LP (DA=0, SA=1)		
extraact	0	1	Total
0	72	11	83
1	28	19	47
Total	100	30	130

```
               Pearson chi2(1) =   12.4812   Pr = 0.000
```
phi = Cohen's w = fourfold point correlation = 0.3099   phi-squared = 0.0960

```
24 .
25 . * Result & learning approach
26 . tabulate lowresult sa if pt==1, all exact
```

	LP (DA=0, SA=1)		
Low result	0	1	Total
0	62	3	65
1	38	27	65
Total	100	30	130

```
            Pearson chi2(1) =    24.9600    Pr = 0.000
   likelihood-ratio chi2(1) =    27.9005    Pr = 0.000
              Cram解's V =     0.4382
                    gamma =     0.8725    ASE = 0.077
           Kendall's tau-b =     0.4382    ASE = 0.066
             Fisher's exact =                0.000
     1-sided Fisher's exact =                0.000
```

27 .

28 . exactcc lowresult sa if pt==1

	LP [DA=0, SA=1]			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	27	38	65	0.4154
Controls	3	62	65	0.0462
Total	30	100	130	0.2308

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	14.68421	3.865625	.	Adjusted
		4.403692	48.41679	Unadjusted
Attr. frac. ex.	.9318996	.7413096	.	Adjusted
		.7729178	.979346	Unadjusted
Attr. frac. pop	.3870968			

```
                          chi2(1) =    24.96   Pr>chi2 = 0.0000
         Yates' adjusted chi2(1) =    22.92   Pr>chi2 = 0.0000
```

29 .

30 . phi lowresult sa if pt==1

Low result	LP (DA=0, SA=1)		Total
	0	1	
0	62	3	65
1	38	27	65
Total	100	30	130

```
        Pearson chi2(1) =    24.9600   Pr = 0.000
```
phi = Cohen's w = fourfold point correlation = 0.4382   phi-squared = 0.1920

31 .

32 . * Gender & result

33 . tabulate girl lowresult if pt==1, all exact

Gender	Low result		Total
	0	1	
0	24	26	50
1	41	39	80
Total	65	65	130

```
            Pearson chi2(1) =     0.1300    Pr = 0.718
   likelihood-ratio chi2(1) =     0.1300    Pr = 0.718
              Cram解's V =    -0.0316
                    gamma =    -0.0649    ASE = 0.180
           Kendall's tau-b =    -0.0316    ASE = 0.088
             Fisher's exact =                0.857
     1-sided Fisher's exact =                0.429
```

34 .
35 . exactcc girl lowresult if pt==1

	Low result				Proportion
	Exposed	Unexposed		Total	Exposed
Cases	39	41		80	0.4875
Controls	26	24		50	0.5200
Total	65	65		130	0.5000

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	.8780488	.4071693	1.89184	Adjusted
		.4347926	1.773282	Unadjusted
Prev. frac. ex.	.1219512	-.89184	.5928307	Adjusted
		-1.299947	.4360738	Unadjusted
Prev. frac. pop	.0634146			

```
                     chi2(1) =     0.13  Pr>chi2 = 0.7184
       Yates' adjusted chi2(1) =     0.03  Pr>chi2 = 0.8569
```

36 .
37 . phi girl lowresult if pt==1

	Low result		
Gender	0	1	Total
0	24	26	50
1	41	39	80
Total	65	65	130

```
        Pearson chi2(1) =   0.1300   Pr = 0.718
```
phi = Cohen's w = fourfold point correlation = 0.0316   phi-squared = 0.0010

38 .
39 . * Locus of control & result
40 . tabulate lc lowresult if pt==1, all exact

	Low result		
LC	0	1	Total
0	42	36	78
1	23	29	52
Total	65	65	130

```
            Pearson chi2(1) =    1.1538   Pr = 0.283
   likelihood-ratio chi2(1) =    1.1558   Pr = 0.282
                  Cramér's V =    0.0942
                       gamma =    0.1906   ASE = 0.173
             Kendall's tau-b =    0.0942   ASE = 0.087
             Fisher's exact =                0.371
     1-sided Fisher's exact =                0.185
```

41 .
42 . exactcc lc lowresult if pt==1

	Low result				Proportion
	Exposed	Unexposed		Total	Exposed
Cases	29	23		52	0.5577
Controls	36	42		78	0.4615
Total	65	65		130	0.5000

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	1.471014	.6845353	3.169034	Adjusted
		.7294565	2.966077	Unadjusted
Attr. frac. ex.	.320197	-.460845	.6844464	Adjusted
		-.3708837	.6628543	Unadjusted

```
    Attr. frac. pop |            .1785714            |
                    +-------------------------------------------------
                                      chi2(1) =       1.15  Pr>chi2 = 0.2827
                         Yates' adjusted chi2(1) =     0.80  Pr>chi2 = 0.3707

43 .
44 . phi lc lowresult if pt==1

                     |        Low result
                  LC |        0          1 |     Total
        -------------+----------------------+----------
                   0 |       42         36  |        78
                   1 |       23         29  |        52
        -------------+----------------------+----------
               Total |       65         65  |       130

              Pearson chi2(1) =    1.1538   Pr = 0.283
     phi = Cohen's w = fourfold point correlation = 0.0942   phi-squared = 0.0089

45 .
   end of do-file

46 .
```

```
            _____  _____/_____  _____/_____/tm
           /_  /  / /  ____/ /  / /  / /
          /___/ /__/ /___/ /__/ /  /___/
                        Statistics/Data Analysis
```

1 . summarize

Variable	Obs	Mean	Std. Dev.	Min	Max
obs	261	131	75.48841	1	261
girl	261	.5632184	.4969402	0	1
result	261	3.467433	1.107619	1	5
lowresult	261	.4827586	.5006627	0	1
sa	261	.2452107	.4310386	0	1
dm	261	7.532567	7.824757	0	23
ds	261	7.731801	8.069226	0	25
sm	261	6.613027	7.043796	0	25
ss	261	7.590038	7.863532	0	23
lc	261	.394636	.4897114	0	1
extraactl	261	.2183908	.4139478	0	1
pt	261	.4980843	.5009569	0	1
workexpl	261	.1800766	.3849895	0	1
extraact	261	.3984674	.4905232	0	1
residual	261	-.0330721	.4596175	-1.038199	.7095986
sr	261	1.10e-09	1	-2.186877	1.615845
predictedv~e	261	.5158307	.2389887	.2904014	1.038199
spv	261	-2.85e-10	1	-.9432635	2.185745

2 .
3 . *study mode & leaning approach
4 . tabulate pt sa, all exact

	LP (DA=0, SA=1)		
PT	0	1	Total
0	97	34	131
1	100	30	130
Total	197	64	261

```
              Pearson chi2(1) =    0.2919   Pr = 0.589
      likelihood-ratio chi2(1) =    0.2920   Pr = 0.589
                  Cramér's V =   -0.0334
                        gamma =   -0.0777   ASE = 0.143
              Kendall's tau-b =   -0.0334   ASE = 0.062
                Fisher's exact =              0.666
        1-sided Fisher's exact =              0.346
```

5 .
6 . exactcc pt sa

	LP [DA=0, SA=1]			Proportion
	Exposed	Unexposed	Total	Exposed
Cases	30	100	130	0.2308
Controls	34	97	131	0.2595
Total	64	197	261	0.2452

	Point estimate	[95% Conf. Interval]		
		Cornfield's limits		
Odds ratio	.8558824	.4680972	1.563685	Adjusted
		.4881836	1.500684	Unadjusted
Prev. frac. ex.	.1441176	-.5636853	.5319028	Adjusted
		-1.04841	.333637	Unadjusted
Prev. frac. pop	.0374046			

```
                          chi2(1) =    0.29  Pr>chi2 = 0.5890
          Yates' adjusted chi2(1) =    0.16  Pr>chi2 = 0.6918
```

7 .
8 . phi pt sa

| | LP (DA=0, SA=1) | | |
PT	0	1	Total
0	97	34	131
1	100	30	130
Total	197	64	261

        Pearson chi2(1) =   0.2919   Pr = 0.589
  phi = Cohen's w = fourfold point correlation = 0.0334   phi-squared = 0.0011

9 .
  end of do-file

Full-time students
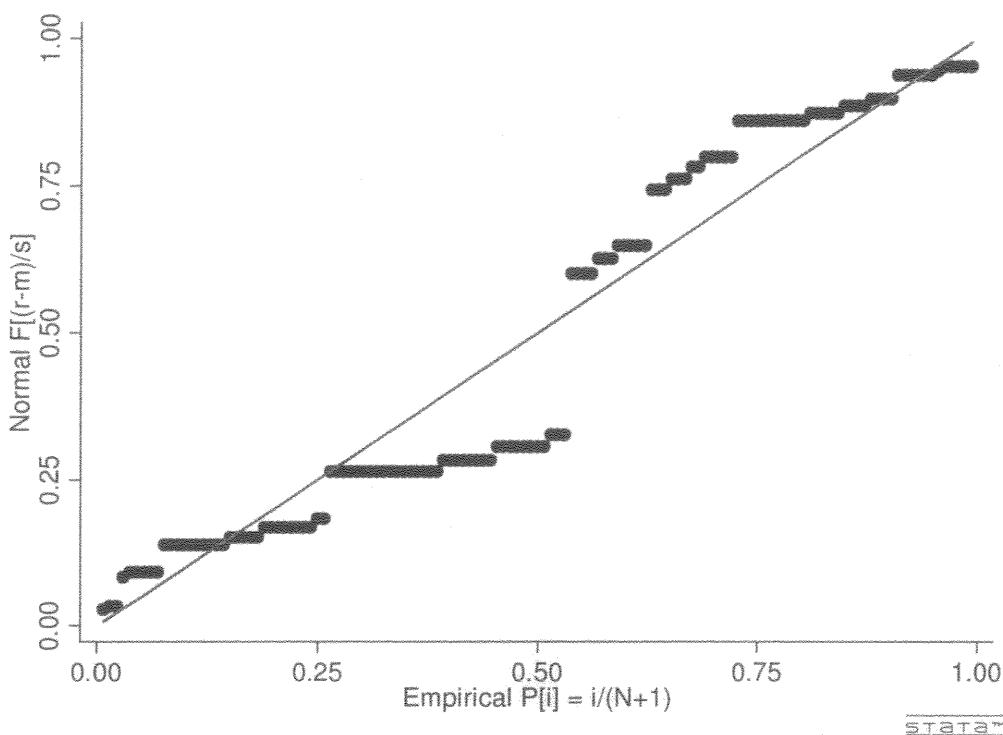
Part-time students

Full-time students

Part-time students

Statistics/Data Analysis
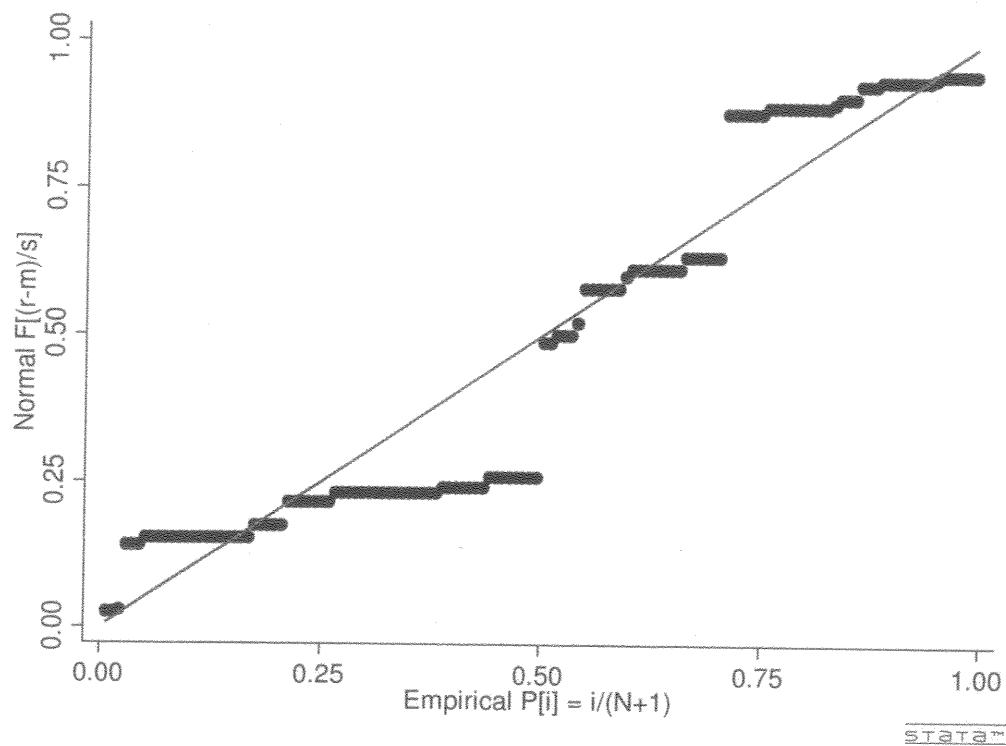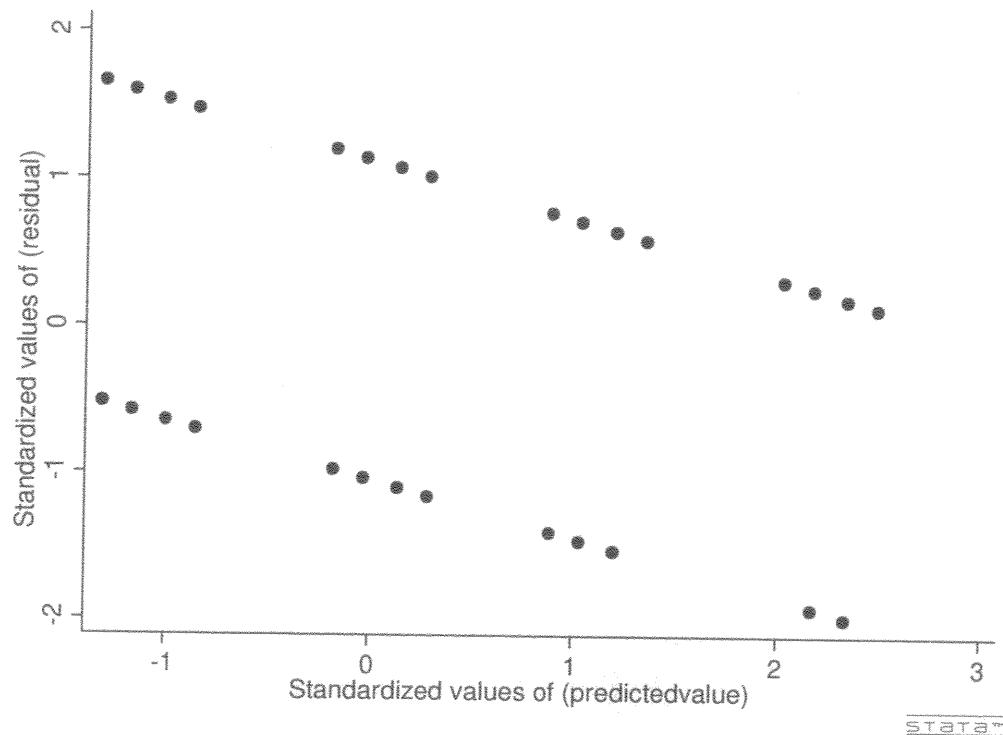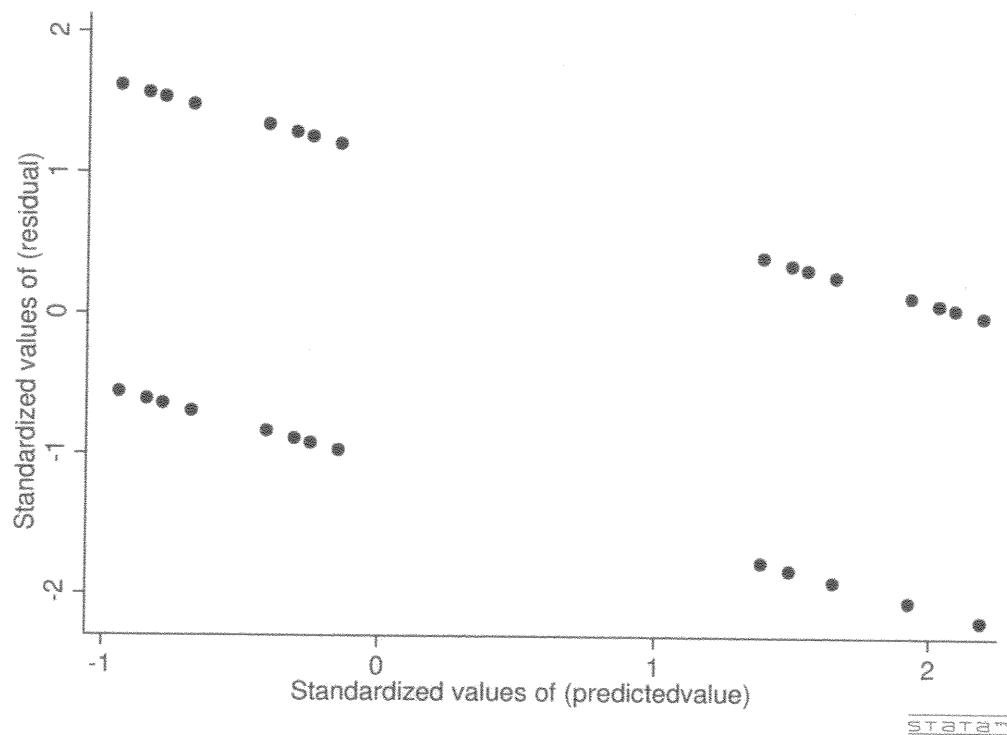
1 . do "C:\Users\ANDYCH~1\AppData\Local\Temp\STD00000000.tmp"

Full-time students

2 . reg lowresult girl extraact lc sa if pt==0

Source	SS	df	MS
Model	4.86417453	4	1.21604363
Residual	27.7312453	126	.220089249
Total	32.5954198	130	.250733999

Number of obs = 131
F(4, 126) = 5.53
Prob > F = 0.0004
R-squared = 0.1492
Adj R-squared = 0.1222
Root MSE = .46914

lowresult	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
girl	-.2105645	.0822879	-2.56	0.012	-.3734097	-.0477192
extraact	-.05793	.0864677	-0.67	0.504	-.2290471	.1131872
lc	-.027152	.0899496	-0.30	0.763	-.2051596	.1508556
sa	.407044	.104439	3.90	0.000	.2003623	.6137258
_cons	.5034739	.0760408	6.62	0.000	.3529915	.6539563

3 . estat vif

Variable	VIF	1/VIF
sa	1.25	0.801482
lc	1.14	0.873397
extraact	1.09	0.914230
girl	1.01	0.992987
Mean VIF	1.12	

Part-time students

4 . reg lowresult girl workexp lc sa if pt==1

Source	SS	df	MS
Model	6.80761393	4	1.70190348
Residual	25.6923861	125	.205539089
Total	32.5	129	.251937984

Number of obs = 130
F(4, 125) = 8.28
Prob > F = 0.0000
R-squared = 0.2095
Adj R-squared = 0.1842
Root MSE = .45336

lowresult	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
girl	-.1280764	.085319	-1.50	0.136	-.2969333	.0407806
workexpl	.0243437	.0875962	0.28	0.782	-.14902	.1977075
lc	-.0383025	.087436	-0.44	0.662	-.2113493	.1347442
sa	.5570749	.1053831	5.29	0.000	.3485087	.765641
_cons	.4567803	.0706756	6.46	0.000	.3169045	.5966561

5 . estat vif

Variable	VIF	1/VIF
sa	1.25	0.802001
lc	1.16	0.861706
workexpl	1.12	0.892670
girl	1.09	0.917669
Mean VIF	1.15	

```
                                                      ___  /  ___ /  /  ___ /tm
                                                     /_  / /  ___ / /  ___ /
                                                    __/  /  /  ___ / /  /  ___ /
                                                     Statistics/Data Analysis
```

1 . reg lowresult girl extraact lc sa pt

Source	SS	df	MS
Model	11.1251242	5	2.22502483
Residual	54.0472896	255	.211950155
Total	65.1724138	260	.25066313

Number of obs =   261
F(5,   255) =   10.50
Prob > F   =   0.0000
R-squared   =   0.1707
Adj R-squared =   0.1544
Root MSE   =   .46038

lowresult	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
girl	-.1635526	.0583992	-2.80	0.005	-.2785589	-.0485464
extraact	-.0149409	.0612376	-0.24	0.807	-.1355367	.1056549
lc	-.0270072	.062161	-0.43	0.664	-.1494215	.0954072
sa	.4784909	.0739659	6.47	0.000	.3328291	.6241527
pt	.0643067	.057532	1.12	0.265	-.0489917	.1776051
_cons	.4421247	.0580107	7.62	0.000	.3278836	.5563658

2 . estat vif

Variable	VIF	1/VIF
sa	1.25	0.801983
lc	1.14	0.879718
extraact	1.11	0.903452
girl	1.03	0.967916
pt	1.02	0.981387
Mean VIF	1.11	