

# EPPS 6313 : Recitation Session #6

Oct. 17. 2012

## Questions?

- You learned :
- Dependent Samples
  
- ANOVA, Two way ANOVA
  
- Non-Parametric test  $\chi^2$
  
- Anything else?

## Problem 1

Fill the blanks and test it for the effect of female and race on edu

```
anova edu female race
```

```

                Number of obs =      999      R-squared      = 0.0115
                Root MSE      = 2.9631      Adj R-squared = 0.0085
    
```

Source	Partial SS	df	MS	F	Prob > F
<hr style="border-top: 1px dashed black;"/>					
Model	101.296585	3 (       )		3.85	0.0094
female	32.3100572	1 32.3100572		(     )	Test?
race	55.8883652	2 27.9441826		3.18	Test?
Residual	8736.07278	995 8.77997265			
<hr style="border-top: 1px dashed black;"/>					
Total	(       )	998 8.85507953			

## Problem 2

$H_0$  : Dog ownership and heart attack survival are independent.

Test it.

		Owned a Dog?		
		Yes	No	Total
survived 1 year?	Yes	50	28	78
	No	3	11	14
Total		53	39	92

## Problem 3

In Problem 1, we used F-test with one-tail.  
Discuss 2-tailed F-test for the effect of female ?