

# Econometrics Cheat Sheet

by Tyler Ransom, University of Oklahoma  
tjr@ou.edu

## Data & Causality

Basics about data types and causality

### Types of data

Experimental	Data from randomized experiment
Observational	Data collected passively
Cross-sectional	Multiple units, one point in time
Time series	Single unit, multiple points in time
Longitudinal (or Panel)	Multiple units followed over multiple time periods

### Experimental data

- Correlation  $\neq$  Causality
- Very rare in Social Sciences

## Statistics basics

We examine a random sample of data to learn about the population

Random sample	Representation of population
Parameter ( $\theta$ )	Some number describing population
Estimator of $\theta$	Rule assigning value of $\hat{\theta}$ to sample e.g. Sample average, $\bar{Y} = \frac{1}{N} \sum_{i=1}^N Y_i$
Estimate of $\theta$	What the estimator spits out for a particular sample ( $\hat{\theta}$ )
Sampling distribution	Distribution of estimates across all possible samples
Bias of estimator $\hat{W}$	$E(\hat{W}) - \theta$
Efficiency	$\hat{W}$ efficient if $\text{Var}(\hat{W}) < \text{Var}(\hat{W}')$
Consistency	$\hat{W}$ consistent if $\hat{\theta} \rightarrow \theta$ as $N \rightarrow \infty$

## Hypothesis testing

The way we answer yes/no questions about our population using a sample of data, e.g. "Does increasing public school spending increase student achievement?"

null hypothesis ( $H_0$ )	Typically, $H_0: \theta = 0$
alt. hypothesis ( $H_A$ )	Typically, $H_A: \theta \neq 0$
significance level ( $\alpha$ )	Tolerance for making Type I error; (e.g. 10%, 5%, or 1%)
test statistic ( $T$ )	Some function of the sample of data
critical value ( $c$ )	Value of $T$ such that reject $H_0$ if $ T  > c$ $c$ depends on $\alpha$
$p$ -value	$c$ depends on if 1- or 2-sided test Largest $\alpha$ at which fail to reject $H_0$ ; reject $H_0$ if $p < \alpha$

## Simple Regression Model

Regression is useful because we can estimate a ceteris paribus relationship between some variable  $x$  and our outcome  $y$

$$y = \beta_0 + \beta_1 x + u$$

We want to estimate  $\hat{\beta}_1$ , which gives us the effect of  $x$  on  $y$ .

## OLS formulas

To estimate  $\hat{\beta}_0$  and  $\hat{\beta}_1$ , we make two assumptions:

1.  $E(u) = 0$
2.  $E(xu) = E(x)E(u)$  for all  $x$

When these hold, we get the following formulas:

$$\hat{\beta}_0 = \bar{y} - \hat{\beta}_1 \bar{x}$$

$$\hat{\beta}_1 = \frac{\text{Cov}(y, x)}{\text{Var}(x)}$$

Best values ( $\hat{\beta}_0$ )	$\hat{\beta}_0 = \bar{y} - \hat{\beta}_1 \bar{x}$
residuals ( $\hat{u}_i$ )	$\hat{u}_i = y_i - \hat{y}_i$
Total Sum of Squares	$TSS = \sum_{i=1}^N (y_i - \bar{y})^2$
Expl. Sum of Squares	$ESS = \sum_{i=1}^N (\hat{y}_i - \bar{y})^2$
Resid. Sum of Squares	$RSS = \sum_{i=1}^N \hat{u}_i^2$
R-squared ( $R^2$ )	$R^2 = \frac{ESS}{TSS}$ "frac. of var. in $y$ explained by $x$ "

## Algebraic properties of OLS estimates

- $\sum_{i=1}^N \hat{u}_i = 0$  (mean & sum of residuals is zero)
- $\sum_{i=1}^N x_i \hat{u}_i = 0$  (zero covariance bet.  $x$  and residuals)
- The OLS line (SRF) always passes through  $(\bar{x}, \bar{y})$
- $ESS + RSS = TSS$
- $0 \leq R^2 \leq 1$

## Interpretation and functional form

- Our model is restricted to be linear in parameters
- But not linear in  $x$
- Other functional forms can give more realistic model

Model	DV	RHS	Interpretation of $\hat{\beta}_1$
Level-level	$y$	$x$	$\Delta y = \beta_1 \Delta x$
Level-log	$y$	$\log(x)$	$\Delta y = (\beta_1/100) (\% \Delta x)$
Log-level	$\log(y)$	$x$	$\% \Delta y = (100\beta_1) \Delta x$
Log-log	$\log(y)$	$\log(x)$	$\% \Delta y = \beta_1 \% \Delta x$
Quadratic	$y$	$x + x^2$	$\Delta y = (\beta_1 + 2\beta_2 x) \Delta x$

Note: DV = dependent variable; RHS = right hand side

## Multiple Regression Model

Multiple regression is more useful than simple regression because we can more plausibly estimate ceteris paribus relationships (i.e.  $E(y|x) = E(y)$  is more plausible)

$$y = \beta_0 + \beta_1 x_1 + \dots + \beta_k x_k + u$$

$\hat{\beta}_1, \dots, \hat{\beta}_k$ : partial effect of each of the  $x$ 's on  $y$

$$\hat{\beta}_0 = \bar{y} - \hat{\beta}_1 \bar{x}_1 - \dots - \hat{\beta}_k \bar{x}_k$$

$$\hat{\beta}_1 = \frac{\text{Cov}(y, \text{residualized } x_1)}{\text{Var}(\text{residualized } x_1)}$$

where "residualized  $x_j$ " means the residuals from OLS regression of  $x_j$  on all other  $x$ 's (i.e.  $x_1, \dots, x_{j-1}, x_{j+1}, \dots, x_k$ )

## Gauss-Markov Assumptions

1.  $y$  is a linear function of the  $x$ 's
2.  $y$  and  $x$ 's are randomly sampled from population
3. No perfect multicollinearity
4.  $E(u|x_1, \dots, x_k) = E(u) = 0$  (Zero conditional mean)
5.  $\text{Var}(u|x_1, \dots, x_k) = \text{Var}(u) = \sigma^2$  (Homoskedasticity)

When (1)-(4) hold: OLS is unbiased, i.e.  $E(\hat{\beta}_j) = \beta_j$   
When (1)-(5) hold: OLS is Best Linear Unbiased Estimator

## Variance of $u$ (a.k.a. "error variance")

$$\sigma^2 = \frac{RSS}{N - K - 1}$$

$$= \frac{1}{N - K - 1} \sum_{i=1}^N \hat{u}_i^2$$

## Variance and Standard Error of $\hat{\beta}_j$

$$\text{Var}(\hat{\beta}_j) = \frac{\sigma^2}{\sum_{i=1}^N (x_i - \bar{x}_j)^2}, \quad j = 1, 2, \dots, k$$

where

$$\sum_{i=1}^N (x_i - \bar{x}_j)^2 = (N-1) \text{Var}(x_j)$$

$$R_j^2 = R^2 \text{ from a regression of } x_j \text{ on all other } x\text{'s}$$

Standard deviation:  $\sqrt{\text{Var}}$

Standard error:  $\sqrt{\text{SE}}$

$$\text{se}(\hat{\beta}_j) = \sqrt{\frac{\sigma^2}{\sum_{i=1}^N (x_i - \bar{x}_j)^2}}, \quad j = 1, \dots, k$$

## Classical Linear Model (CLM)

Add a 6th assumption to Gauss-Markov:

- 6.  $u$  is distributed  $N(0, \sigma^2)$

Need this to know what the distribution of  $\hat{\beta}_j$  is  
Otherwise, can't conduct hypothesis tests about the  $\beta$ 's

## Testing Hypotheses about the $\beta$ 's

Under A (1)-(6), can test hypotheses about the  $\beta$ 's

### t-test for simple hypotheses

To test a simple hypothesis like

$$H_0: \beta_j = 0$$

$$H_A: \beta_j \neq 0$$

use a t-test:

$$t = \frac{\hat{\beta}_j - 0}{\text{se}(\hat{\beta}_j)}$$

where 0 is the null hypothesized value.

Reject  $H_0$  if  $p < \alpha$  or if  $|t| > c$  (See: Hypothesis testing)

# Econometrics Study Guide

**J. J. J. Dalmulder**



## **Econometrics Study Guide:**

Econometrics Kane,2002-01-01      Basic Econometrics Dr.M.Chitra, This book is a guide for students who are studying econometrics as a course in their programme There are 5 modules or units in this study material The first unit explicate from the origin of econometrics meaning definition need econometrics as a separate discipline the scope of econometrics Methodology of Econometrics Reasons for introduction of stochastic error term the difference between economic and econometric model and limitation The second unit depicts about the simple linear regression in the aspects of its assumptions derivations of its estimation of parameter value properties and its technical note applications of simple linear regression with examples The third unit is the extension of simple linear regression as multiple regression with basic input with examples for applying in reality The fourth unit briefly explains the violations of assumptions such as multicollinearity homoscedasticity autocorrelation and specification errors in the aspects of causes consequences way of diagnostic the presence or absence and the remedies to rectify the issues The fifth module or unit introduces about the qualitative response models with dummies distributed lag models with importance s of lag analysis of variance analysis of covariance comparison of analysis of variance and analysis of covariance The last unit attempted to explain about the free open source software Gretl to apply in need of finding solution to an economic phenomenon The Glossary is attached in the annexure for a better understanding the terminology of econometrics which will support to face multiple choice questions of any competitive examinations in national and state level In Simple words this book is a guide to get the knowledge of econometrics and apply the same into reality wherever necessary      A Guide to Econometrics Peter Kennedy,2003 A popular intuitively based overview of econometrics

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