

Econometrics Cheat Sheet

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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 $\Rightarrow$ 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 (θ)	Some number describing population
Estimator of θ	Rule assigning value of θ to sample e.g. Sample average, $\bar{Y} = \frac{1}{N} \sum_{i=1}^N Y_i$
Estimate of θ	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 (α)	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 α
p -value	c depends on if 1- or 2-sided test Largest α 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 β_0 and β_1 , we make two assumptions:

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

When these hold, we get the following formulas:

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

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

Fitted values ($\hat{y}_i$)	$\hat{y}_i = \hat{\beta}_0 + \hat{\beta}_1 x_i$
residuals ($\hat{u}_i$)	$\hat{u}_i = y_i - \hat{y}_i$
Total Sum of Squares	$SST = \sum_{i=1}^N (y_i - \bar{y})^2$
Expl. Sum of Squares	$SSE = \sum_{i=1}^N (\hat{y}_i - \bar{y})^2$
Resid. Sum of Squares	$SSR = \sum_{i=1}^N \hat{u}_i^2$
R-squared (R^2)	$R^2 = \frac{SSE}{SST}$ "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 (RRF) always passes through $(\bar{x}, \bar{y})$
- $SSE + SSR = SST$
- $0 \leq R^2 \leq 1$

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 β_1
Level-level	y	x	$\Delta y = \beta_1 \Delta x$
Level-log	y	$\log(x)$	$\Delta y = (\beta_1/100) (1\% \Delta x)$
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. $E(u|x) = E(u)$ is more plausible)

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

$\beta_1, \dots, \beta_k$: partial effect of each of the x 's on y

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

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

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. $E(u|x_1, \dots, x_k) = E(u) = 0$ (Unconditional Exogeneity)
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")

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

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

$$\text{Var}(\hat{\beta}_j) = \frac{\sigma^2}{SST_j(1 - R_j^2)}, j = 1, 2, \dots, k$$

where

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

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

Standard deviation: $\sqrt{N \widehat{Var}}$

Standard error: $\sqrt{\widehat{Var}}$

$$\text{se}(\hat{\beta}_j) = \sqrt{\frac{\sigma^2}{SST_j(1 - R_j^2)}}, j = 1, \dots, k$$

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 β 's

Testing Hypotheses about the β 's

Under A (1)-(6), can test hypotheses about the β 's

t-test for simple hypotheses

To test a simple hypothesis like

$$H_0: \beta_1 = 0$$

$$H_A: \beta_1 \neq 0$$

use a t-test:

$$t = \frac{\hat{\beta}_1 - 0}{\text{se}(\hat{\beta}_1)}$$

where 0 is the null hypothesized value.

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

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Methods of Interregional and Regional Analysis Walter Isard,Iwan J. Azis,Matthew P. Drennan,Ronald E. Miller,Sidney Saltzman,Erik Thorbecke,2017-07-05 This landmark textbook introduces students to the principles of regional science and focuses on the key methods used in regional analysis including regional and interregional input output analysis econometrics regional and spatial programming and industrial and urban complex analysis gravity and spatial interaction models SAM and social accounting welfare analysis and applied general interregional equilibrium models The coherent development of the materials contained in the set of chapters provides students with a comprehensive background and understanding of how to investigate key regional problems For the research scholar this publication constitutes an up to date source book of the basic elements of each major regional science technique More significant it points to new directions for future research and ways interregional and regional analytic approaches can be fused to realise much more probing attacks on regional and spatial problems a contribution far beyond what is available in the literature **Encyclopedia of Measurement and Statistics**

Neil J. Salkind,2007 Publisher Description **The Theory and Practice of Econometrics** George G. Judge,William E. Griffiths,R. Carter Hill,Helmut Lütkepohl,Tsoungh-Chao Lee,1991-01-16 This broadly based graduate level textbook covers the major models and statistical tools currently used in the practice of econometrics It examines the classical the decision theory and the Bayesian approaches and contains material on single equation and simultaneous equation econometric models Includes an extensive reference list for each topic **Machine Learning Applications In Software Engineering** Du

Zhang,Jeffrey J P Tsai,2005-02-21 Machine learning deals with the issue of how to build computer programs that improve their performance at some tasks through experience Machine learning algorithms have proven to be of great practical value in a variety of application domains Not surprisingly the field of software engineering turns out to be a fertile ground where many software development and maintenance tasks could be formulated as learning problems and approached in terms of learning algorithms This book deals with the subject of machine learning applications in software engineering It provides an overview of machine learning summarizes the state of the practice in this niche area gives a classification of the existing work and offers some application guidelines Also included in the book is a collection of previously published papers in this research area *Economics Reading Lists, Course Outlines, Exams, Puzzles & Problems: Econometrics reading lists* ,1995

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Econometric Modeling in Economic Education Research William E. Becker Jr., Rolf A. Walstad, 2012-12-06 Since its establishment in the 1950s the American Economic Association's Committee on Economic Education has sought to promote improved instruction in economics and to facilitate this objective by stimulating research on the teaching of economics These efforts are most apparent in the sessions on economic education that the Committee organizes at the Association's annual meetings At these sessions economists interested in economic education have opportunities to present new ideas on teaching and research and also to report the findings of their research The record of this activity can be found in the Proceedings of the American Economic Review The Committee on Economic Education and its members have been actively involved in a variety of other projects In the early 1960s it organized the National Task Force on Economic Education that spurred the development of economics teaching at the precollege level This in turn led to the development of a standardized research instrument a high school test of economic understanding This was followed later in the 1960s by the preparation of a similar test of understanding college economics The development of these two instruments greatly facilitated research on the impact of economics instruction opened the way for application of increasingly sophisticated statistical methods in measuring the impact of economic education and initiated a steady stream of research papers on a subject that previously had not been explored

Rescuing Econometrics Duo Qin, 2023-12-01 Haavelmo's 1944 monograph The Probability Approach in Econometrics is widely acclaimed as the manifesto of econometrics This book challenges Haavelmo's probability approach shows how its use is delivering defective and inefficient results and argues for a paradigm shift in econometrics towards a full embrace of machine learning with its attendant benefits Machine learning has

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world examples Can serve as a core textbook for a first year PhD course in econometrics and as a follow up to Bruce E Hansen's Probability and Statistics for Economists Bibliographic Guide to Business and Economics New York Public Library. Research Libraries, 1976 **Optimal Learning** Warren B. Powell, Ilya O. Ryzhov, 2013-07-09 Learn the science of collecting information to make effective decisions Everyday decisions are made without the benefit of accurate information Optimal Learning develops the needed principles for gathering information to make decisions especially when collecting information is time consuming and expensive Designed for readers with an elementary background in probability and statistics the book presents effective and practical policies illustrated in a wide range of applications from energy homeland security and transportation to engineering health and business This book covers the fundamental dimensions of a learning problem and presents a simple method for testing and comparing policies for learning Special attention is given to the knowledge gradient policy and its use with a wide range of belief models including lookup table and parametric and for online and offline problems Three sections develop ideas with increasing levels of sophistication Fundamentals explores fundamental topics including adaptive learning ranking and selection the knowledge gradient and bandit problems Extensions and Applications features coverage of linear belief models subset selection models scalar function optimization optimal bidding and stopping problems Advanced Topics explores complex methods including simulation optimization active learning in mathematical programming and optimal continuous measurements Each chapter identifies a specific learning problem presents the related practical algorithms for implementation and concludes with numerous exercises A related website features additional applications and downloadable software including MATLAB and the Optimal Learning Calculator a spreadsheet based package that provides an introduction to learning and a variety of policies for learning **The Journal of Economic Perspectives** , 2001 This journal attempts to fill a gap between the general interest press and other academic economics journals Its articles relate to active lines of economics research economic analysis of public policy issues state of the art economic thinking and directions for future research It also aims to provide material for classroom use and to address issues relating to the economics profession

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