

Introductory Econometrics: Tutorial 3

Again, we use the data `collegetown.csv` in this tutorial, which contains observations on 500 single-family houses sold in Baton Rouge, Louisiana, during 2009-2013. The data include sale price in thousands of dollars (`PRICE`), and total interior area of the house in hundreds of square feet (`SQFT`).

Question 1

Estimate the following linear regression model

$$\text{PRICE} = \beta_1 + \beta_2 \text{SQFT} + \epsilon, \quad (1)$$

and summarize the estimation results using `summ()`. Keep 4 decimals in your output.

Hint: You need to install the `jtools` package before invoking `summ()`.

Solution:

Again, set the working directory first. For example, I have

```
setwd("~/Users/bpen0011/Dropbox/Teaching/2021/ETF_2100_New/Tutorials/Week_3/")
```

We run the OLS regression as follows.

```
library(jtools)
Collegetown <- read.csv('collegetown.csv')
Results1 <- lm(price ~ sqft, data = Collegetown)
summ(Results1, model.info = FALSE, digits = 4)
```



```
## MODEL FIT:
## F(1,498) = 890.4114, p = 0.0000
## R² = 0.6413
## Adj. R² = 0.6406
##
## Standard errors: OLS
## -----
##               Est.      S.E.    t val.      p
## -----
## (Intercept)   -115.4236   13.0882   -8.8189   0.0000
## sqft           13.4029    0.4492   29.8398   0.0000
## -----
```

Answer Study Guide Intro To Econometrics

**Patrick K. Watson, Sonja S.
Teelucksingh**



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Introduction to Econometrics Christopher Dougherty, 2011-03-03 Taking a modern approach to the subject this text provides students with a solid grounding in econometrics using non technical language wherever possible **A Concise Introduction to Econometrics** Philip Hans Franses, 2002-12-12 In this short and very practical 2002 introduction to econometrics Philip Hans Franses guides the reader through the essential concepts of econometrics Central to the book are practical questions in various economic disciplines which can be answered using econometric methods and models The book focuses on a limited number of the essential most widely used methods before going on to review the basics of econometrics The book ends with a number of case studies drawn from recent empirical work to provide an intuitive illustration of what econometricians do when faced with practical questions Throughout the book Franses emphasises the importance of specification evaluation and implementation of models appropriate to the data Assuming basic familiarity only with matrix algebra and calculus the book is designed to appeal as either a short stand alone introduction for students embarking on an empirical research project or as a supplement to any standard introductory textbook *Introductory Econometrics* Humberto Barreto, Frank Howland, 2006 This highly accessible and innovative text with supporting web site uses Excel R to teach the core concepts of econometrics without advanced mathematics It enables students to use Monte Carlo simulations in order to understand the data generating process and sampling distribution Intelligent repetition of concrete examples effectively conveys the properties of the ordinary least squares OLS estimator and the nature of heteroskedasticity and autocorrelation Coverage includes omitted variables binary response models basic time series and simultaneous equations The authors teach students how to construct their own real world data sets drawn from the internet which they can analyze with Excel R or with other econometric software The accompanying web site with text support can be found at www.wabash.edu/econometrics **A Practical Introduction to Econometric Methods** Patrick K. Watson, Sonja S. Teelucksingh, 2002 The text is aimed at final year undergraduate students or those at the graduate level doing econometrics for the first time It is an introductory course in the theory and practice of classical and modern econometric methods A proper study of the material will allow the reader to Understand the scope and limitations of classical and modern econometric techniques Read write and properly interpret articles and reports of an applied econometric nature Build upon the elements of econometric theory and practice introduced in the book Although some basic knowledge of matrix algebra and elementary statistical theory will be assumed much of it is covered in the body of the text All the main theoretical concepts are illustrated with the use of econometric software mainly EViews [An Introduction to Econometric Theory](#) James Davidson, 2018-10-22 A GUIDE TO ECONOMICS STATISTICS AND FINANCE THAT EXPLORES THE MATHEMATICAL FOUNDATIONS UNDERLING ECONOMETRIC METHODS An Introduction to Econometric Theory offers a text to help in the mastery of the mathematics that underlie econometric methods and includes a detailed study of matrix algebra and distribution theory Designed to be an

accessible resource the text explains in clear language why things are being done and how previous material informs a current argument The style is deliberately informal with numbered theorems and lemmas avoided However very few technical results are quoted without some form of explanation demonstration or proof The author a noted expert in the field covers a wealth of topics including simple regression basic matrix algebra the general linear model distribution theory the normal distribution properties of least squares unbiasedness and efficiency eigenvalues statistical inference in regression t and F tests the partitioned regression specification analysis random regressor theory introduction to asymptotics and maximum likelihood Each of the chapters is supplied with a collection of exercises some of which are straightforward and others more challenging This important text Presents a guide for teaching econometric methods to undergraduate and graduate students of economics statistics or finance Offers proven classroom tested material Contains sets of exercises that accompany each chapter Includes a companion website that hosts additional materials a solution manual and lecture slides Written for undergraduates and graduate students of economics statistics or finance An Introduction to Econometric Theory is an essential beginner s guide to the underpinnings of econometrics

Introduction to Econometrics Gary

Koop,2008-03-10 Indem sie Modelle f r die Voraussage wirtschaftlicher Entwicklungen bereitstellt bildet die konometrie heute einen Kernbereich der Wirtschaftswissenschaften und hat sich damit zu einem zentralen Bestandteil wirtschaftswissenschaftlicher Studieng nge entwickelt Die hier vorgelegte Einf hrung er ffnet Einsteigern ebenso wie fortgeschrittenen Studierenden einen Zugang der im Unterschied zur Lehrbuchkonkurrenz von vornherein auf einen starken Praxisbezug setzt Der Verfasser ausgewiesener konometrieexperte behandelt ein breites Spektrum konometrischer Modelle u a das einfache und das multiple Regressionsmodell Im Mittelpunkt seiner Darstellung steht dabei nicht Theoretisches sondern die Anwendung der Modelle auf empirische Daten Zahlreiche Beispiele und bungsaufgaben unter Verwendung der Standardsoftware Strata erm glichen die Ein bung in Methoden und Modelle und schaffen so die Basis f r ein selbstst ndiges empirisches Arbeiten

Basic Econometrics Dr.M.Chitra,

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dummies distributed lag models with importance 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 *Introductory Econometrics for Finance* Chris Brooks,2014-05-08 The only econometrics textbook written specifically for finance students with no prior knowledge of econometrics including extensive online student support

Study Guide and Tutorial [to Accompany] Macroeconomics, Second Edition [by] Olivier Blanchard David W.

Findlay,Olivier Blanchard,2000 David Findlay of Colby College has done an outstanding job of writing a student friendly study guide Each chapter begins with a presentation of objectives and review It is organized in the form of a tutorial covering the important points of the chapter with learning suggestions along the way Quick self test questions review problems and multiple choice questions follow the tutorial Solutions are provided for all Study Guide problems **An Introduction to**

Econometric Theory A. Ronald Gallant,2018-06-05 Intended primarily to prepare first year graduate students for their ongoing work in econometrics economic theory and finance this innovative book presents the fundamental concepts of theoretical econometrics from measure theoretic probability to statistics A Ronald Gallant covers these topics at an introductory level and develops the ideas to the point where they can be applied He thereby provides the reader not only with a basic grasp of the key empirical tools but with sound intuition as well In addition to covering the basic tools of empirical work in economics and finance Gallant devotes particular attention to motivating ideas and presenting them as the solution to practical problems For example he presents correlation regression and conditional expectation as a means of obtaining the best approximation of one random variable by some function of another He considers linear polynomial and unrestricted functions and leads the reader to the notion of conditioning on a sigma algebra as a means for finding the unrestricted solution The reader thus gains an understanding of the relationships among linear polynomial and unrestricted solutions Proofs of results are presented when the proof itself aids understanding or when the proof technique has practical value A major text treatise by one of the leading scholars in this field *An Introduction to Econometric Theory* will prove valuable not only to graduate students but also to all economists statisticians and finance professionals interested in the ideas and implications of theoretical econometrics **A Guide to Basic Econometric Techniques** Elia

Kacapyr,2015-03-04 This economical text is intended for use as a universal supplement to introductory econometrics courses This edition contains two new chapters on economic forecasting Extensive online supplements include teaching PowerPoints solutions to test questions problems new instructor questions and software programs with data to download *Introductory Econometrics: Asia Pacific Edition with Online Study Tools 12 Months* Jeffrey M. Wooldridge,Mokhtarul Wadud,Jenny

Lye,2016-10-24 Econometrics is the combined study of economics and statistics and is an applied unit It is increasingly becoming a core element in finance degrees at upper levels This first local adaptation of Wooldridge s text offers a version of Introductory Econometrics with a structural redesign that will better suit the market along with Asia Pacific examples and data Two new chapters at the start of the book have been developed from material originally in Wooldridge s appendix section to serve as a clear introduction to the subject and as a revision tool that bridges students transition from basic statistics into econometrics This adaptation includes data sets from Australian and New Zealand as well as from the Asia Pacific region to suit the significant portion of finance students who are from Asia and the likelihood that many graduates will find employment overseas

Introductory Econometrics Hamid Seddighi,2013-03-01 This book constitutes the first serious attempt to explain the basics of econometrics and its applications in the clearest and simplest manner possible Recognising the fact that a good level of mathematics is no longer a necessary prerequisite for economics financial economics undergraduate and postgraduate programmes it introduces this key subdivision of economics to an audience who might otherwise have been deterred by its complex nature

EBOOK: Econometrics with Online Learning Centre

CAMERON,2005-02-16 *EBOOK Econometrics with Online Learning Centre* *Study Guide* David W Findlay,2002-08 This text accompanies Macroeconomics and Active Graphs CD Package It is organized in the form of a tutorial covering the important points with learning tips included The tutorial is followed by quick self test questions review problems and multiple choice questions Solutions are provided

Introductory Econometrics: Asia-Pacific Edition Jeffrey M. Wooldridge,Dr Mokhtarul Wadud,Jenny Lye,Roselyne Joyeux,2020-12-02 The second Asia Pacific edition of Introductory Econometrics is the only resource in the market designed specifically for introductory second year students The concise structure and simplified explanations provide a clear introduction to the subject understanding how econometrics can answer questions in business policy evaluation and forecasting and bridges students transition from basic statistics into econometrics The text supports student understanding by introducing background material on introductory mathematics probability and statistics and provides opportunities to recall prior learning and refine fundamental skills before progressing to the more advanced topics The inclusion of data sets from Australia and New Zealand as well as from the Asia Pacific region add local context and provide examples that resonate with students

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Introduction to Econometrics Oskar Lange,1978

Enjoyable Econometrics Philip Hans Franses,2018-07-05 Applies econometric methods to a variety of unusual and engaging research questions

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