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Curtin University



BANKWEST CURTIN ECONOMICS CENTRE

ECONOMIC DATA ANALYSIS USING STATA

BCEC Training Course

Professor Alan Duncan

Director, Bankwest Curtin Economics Centre

Date: Tuesday 9 August 2016

Venue: Saxons Training Facilities
Level 1, 140 St Georges Terrace
Perth WA 6000

Start: 8.30am for a 9.00am start

End: 4.00pm

There is no cost to attend this course, but RSVPs are essential as places are limited. For more information and to enrol, email bcec@curtin.edu.au or Telephone +61 8 9266 2873

About the Centre



The Bankwest Curtin Economics Centre is an independent economic and social research organisation located within the Curtin Business School at Curtin University. The centre was established in 2012 through the generous support from Bankwest (a division of the Commonwealth Bank of Australia), with a core mission to examine the key economic and social policy issues that contribute to the sustainability of Western Australia and the nation, and the wellbeing of households both in WA and nationally.

The Bankwest Curtin Economics Centre is the first research organisation of its kind in Western Australia, and draws great strength and credibility from its partnership with Bankwest, Curtin University and the Western Australian government. The centre brings a unique philosophy to research on the major economic issues facing the state. By bringing together experts from the research, policy and business communities at all stages of the process – from framing and conceptualising research questions, through the conduct of research, to the communication and implementation of research findings – we ensure that our research is relevant, fit for purpose, and makes a genuine difference to the lives of Australians, both in WA and nationally.

The centre is able to capitalise on Curtin University's reputation for excellence in economic modelling, forecasting, public policy research, trade and industrial economics and spatial sciences. Centre researchers have specific expertise in economic forecasting, quantitative modelling, micro-data analysis and economic and social policy evaluation. The centre also derives great value from its close association with experts from the corporate, business, public and not-for-profit sectors.

About the Course Instructor



Alan Duncan

Professor Alan Duncan is Director of the Bankwest Curtin Economics Centre and Bankwest Professor of Economic Policy at Curtin University.

Prior to taking up this position in 2012, Alan was Director of the National Centre for Social and Economic Modelling (NATSEM) at the University of Canberra. He was previously a Professor of Economics and Head of School at Nottingham School of Economics, University of Nottingham and has also held positions at the University of York and the Institute for Fiscal Studies (IFS).

Alan has published widely in both academic and policy outlets, with articles appearing in journals of the highest international reputation, including *Econometrica*, *The Economic Journal*, *European Economic Review*, *Economic Record*, *Journal of Human Resources*, *Journal of Applied Econometrics* and *Fiscal Studies*.

His research interests and expertise cover a broad range of topics, including: economic and social policy evaluation; taxation, public finance and public policy; the economics of education, training and childcare; employment and labour market participation; population and workforce dynamics; gender equity and discrimination; housing affordability; migration; income inequality; poverty and wellbeing; statistical simulation; and econometric modelling and forecasting.

Alan was awarded the prestigious Frisch Medal of the Econometric Society in 2000 for a paper published in the world-leading journal, *Econometrica*. He completed a DPhil in Economics at the University of York, and has served on a number of senior advisory panels and boards for government and public sector organisations in the UK, Europe and Australia, advising on areas including tax policy, pensions, labour markets and household welfare. Alan has been invited to give evidence at Federal Senate Committee hearings, and was invited to participate in the 2011 Henry Review of the Australian tax system.

ECONOMIC DATA ANALYSIS WITH STATA

Course Overview

This BCEC Training Course offers a practical introduction to applied economic data and regression analysis, with a design that caters specifically for those seeking to refresh or develop their skills in quantitative economic and social policy modelling. The course is structured around a combination of accessible lectures and practical computer exercises. Instruction is delivered in a way that conveys an intuitive understanding of econometric methods, without dwelling heavily on econometric theory.

Specific instruction in the use of the STATA data and statistical analysis software package is provided, with practical exercises used throughout the course in order that participants are able to develop their quantitative modelling skills. Participants cover methods in applied data analysis and linear regression, with a focus on model specification and construction, the practical interpretation of regression results, and a critical assessment of model properties through diagnostic testing.

The target audience includes postgraduate research students, early career researchers, as well as public policy professionals, private sector analysts, academics and social scientists.

Course Programme

- applied data analysis in STATA
- basics of regression
- basics of STATA
- model construction
- interpreting coefficients
- prediction and model fit
- specification issues
- testing hypothesis

Economic Data Analysis with STATA has been designed as the first of a two-part training course series that additionally provides training in applied microeconomic methods (further details below).

The course can also be taken as a standalone training program.

Upcoming Course

Binary Choice Models

- linear regression (refresher)
- linear Probability Models
- binary probit/logit models
- ML estimation using STATA

Multiple discrete choice

- ordered choice models
- sequential choice models
- bivariate probit models
- unordered choice models

Limited dependent variables

- sample selection bias
- truncated regression
- Tobit/censored regression
- Heckman sample selection model

Specification Issues

- estimating probabilities
- testing hypotheses
- generating marginal effects
- testing for model fit

Training Venue

Saxons Training Facilities

Level 1
140 St Georges Terrace
Perth WA 6000



Parking

The venue does not have allocated parking however there are several parking options available.

Central Park
152-158 St Georges Terrace
Perth WA 6000

https://www.wilsonparking.com.au/park/6097_Central-Park-Car-Park_152-158-St-Georges-Terrace-Perth