University of Cape Town • Private Bag
Rondebosch, 7701• South Africa
Tel: +27 21 650 5708 • Fax: +27 21 650 5709
Email: info@data1st.org
Website: http://www.datafirst.uct.ac.za

Analysis of Complex Sample Surveys using Stata
Monday, 18 July 2011 to Friday, 22 July 2011
9am – 3pm

Course Aims

This course is aimed at postgraduate students (Masters and Ph.D.) and researchers wanting to analyse social surveys using Stata. The course is aimed at both outlining the theory of weighting, clustering and stratification; discuss how social surveys are practically implemented in South Africa; as well as introducing the survey analysis tools available in Stata.

Prerequisites

Course participants should be familiar with Stata and with basic statistical tools (such as regression analysis).

Date

18 July 2011 – 22 July 2011

Course Instructors

Cally Ardington and Martin Wittenberg

Cally Ardington is an Associate Professor in the Southern Africa Labour and Development Research Unit, School of Economics, UCT. She has extensive experience in the design, management and micro-econometric analysis of social surveys. Her research focuses on the links between socio-economic status, intergenerational support and health and education outcomes.

Martin Wittenberg is an Associate Professor in the School of Economics at UCT and Acting Director of DataFirst. He teaches graduate level courses in econometrics. His research interests include intra-household bargaining and allocation of time and issues of data quality in household surveys.

Course Fees

The cost of the course is R2000.
Full or partial scholarships are available to bona fide students and academics.
To qualify you must submit a motivation from your supervisor/Head of Department.
Students registering for the UCT course ECO5070S (Microeconometrics) qualify automatically.

To reserve your place, please contact Alison Siljeur, email: info@data1st.org

For information about DataFirst please visit our website at www.datafirst.uct.ac.za.

Please Note:
DataFirst reserves the right to cancel if there is not enough interest in the workshop.

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Draft Programme

Monday 18 July

Day 1: UNDERSTANDING SAMPLING PRACTICE AND THEORY
Samples and Populations
Frames and coverage
Sampling with and without replacement
Simple random sampling
Multi-stage sampling
Understanding the metadata
South African datasets

Tuesday 19 July

Day 2: WEIGHTS
Unequal selection probabilities
The theory of reweighting
Weights for descriptive statistics
Nonresponse weights
Calibration and poststratification
Using weights in regressions
Testing for the relevance of weights

Wednesday 20 July

Day 3: CLUSTERING
The reason for clustering in surveys
Intracluster correlations and the implication for inference
DEFF and MEFF
Variance estimation with clustered samples
Robust estimation with cluster corrections

Thursday 21 July

Day 4: STRATIFICATION
The theory of stratification
Stratification in South African surveys
Estimation over subpopulations

Friday 22 July

Day 5: DATA ISSUES
Missing values
Heaping
Measurement error

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