

Ethnographic Research Methods Lab

Anth 375, W2-4pm

THIS COURSE introduces selected advanced analytical tools for professional field studies in anthropology. We shall learn aspects of Anthropac and UCINET software, and some advanced capabilities of SYSTAT.

READINGS: find online.

YOUR GRADE: will come from 2 sources.

- (1) 90% of your grade will come from a series of exercises and your demonstrated ability to use key methods for data analysis.
- (2) 10% of your grade will come from my personal evaluation of your progress (preparation, interest, and other contributions to the course).

SEPT 5, 12, 19: KULLBACK-LEIBLER INFORMATION MEASURES

Burnham KP, Anderson DR. Kullbak-Liebler information as a basis for strong inference in ecological studies. *Wildlife Research* 2001; 28:111-119.

Richards SA. Testing ecological theory using the information-theoretic approach. *Ecology* 2005; 86:2805-2814.

Sept 12: Assignment 1: analyze variation in AIC scores for the following sets of models

FALLOW

OLS (linear) regression:

$fallow = constant + density$

$lf = constant + ld$

$lf = constant + density$

$fallow = constant + ld$

Logistic regression:

binary fallow = constant + ld (i.e., make a binary fallow variable=1 if fallow>17)

binary fallow = constant + binary density (i.e., also make a binary density variable=1 if density<22)

CHILD

$CW = constant + region$

$CW = constant + sex$

$CW = constant + region + sex$

$CW = constant + region + sex + region * sex$

BAJAN

$PABUS = constant + MDIS$

$PABUS = constant + MABUS$

$PABUS = constant + MDIS + MABUS$

PABUS=constant+MDIS+MABUS+MDIS*MABUS
PABUS=constant+MDIS*MABUS

Sept 19: Assignment 2: analyze variation in AIC scores for the following sets of models, for which you work out the estimated number of children wanted (CW) by American and West African men and women.

CHILD

OLS regression

CW=constant+region

CW=constant+sex

CW=constant+region+sex

CW=constant+region+sex+ region*sex

Mixed model regression using restricted maximum likelihood (REML) estimation

CW=constant+ region\$+sex\$

CW=constant + sex\$ + sex\$(region\$).

SEPT 26, OCT 3, 10: HIERARCHICAL LINEAR REGRESSION & RANDOM EFFECT MODELS

Luke DA. *Multilevel Modeling*. Sage University Paper 143. Thousand Oaks, CA: Sage Publications, 2004.

OCT 17, 24, 31: CORRESPONDENCE ANALYSIS

Weller SC, Romney AK. *Metric Scaling: Correspondence Analysis*. Sage University Paper 75. Thousand Oaks, CA: Sage Publications, 1990.

NOV 7, 14, 21: TRIADS