

- **Workshop**, “Issues in Analysis of Complex Sample Survey Data” at the Center for Statistical Consultation and Research (CSCAR) at the University of Michigan, Ann Arbor, MI, May 7, 9, & 11, 2007.

Issues in Analysis of Complex Sample Survey Data

A CSCAR Workshop

Center for Statistical Consultation and Research, The University of Michigan

May 7, 9, and 11, 2007

This workshop will provide participants with an introductory, **hands-on** overview of issues frequently encountered when conducting secondary computer analyses of data collected from sample surveys with complex multi-stage designs (e.g., PSID, NHANES, NCS), including design-based weight determination, software choice, and proper analysis methods. **The workshop is not intended for participants looking to design a survey, but rather for participants who have a desire to analyze complex sample survey data.** Topics to be covered include:

- Recognizing a sample with a complex design
 - Calculation of sample weights based on sample designs / non-response / post-stratification
 - Calculation of new weights for subgroups / longitudinal analyses
 - Weighted vs. unweighted analyses
 - Calculation of correct confidence intervals for sample estimates
 - Hypothesis Testing based on sample estimates
 - Design Effects
 - Software packages capable of complex sample survey data analysis
 - Common analysis methods (linear modeling, descriptive statistics), interpretation of results
 - Approaches to handling missing data using specialized software procedures
 - Hands-on examples using software programs to analyze real survey data
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Instructor:

Brady West is a statistical consultant at CSCAR. His primary research interests revolve around the analysis of clustered and longitudinal data sets, which often arise in sample surveys.

Audience:

Any researchers looking to conduct a thorough analysis of a data set collected from a survey with a complex sample design.

Prerequisite:

Some experience in SAS or Stata is desirable, but not required. Background in applied statistical analysis recommended.

When:

Monday, Wednesday, and Friday, May 7, 9, and 11, 2007
Time: 9:00 AM - 12:00 noon

Location:

Rackham Bldg, 2nd floor, North Alcove in the West Study Hall

Size:

Maximum of 16 participants.

Fee:

Registration until April 23, 2007:

\$150 for University of Michigan affiliated faculty, staff and students;
\$325 for others

Registration after April 23, 2007:

\$180 for University of Michigan affiliated faculty, staff and students;
\$390 for others

Please make check payable to CSCAR-University of Michigan, or give the University of Michigan Project/Grant or short code to be billed. Send check to CSCAR, 3550 Rackham Bldg., 915 E. Washington St., Ann Arbor, MI 48109-1070.

Registration:

Call CSCAR (734) 764-7828. Enrollment is limited.