

- **Workshop**, “Applied Survival Analysis, Event History Analysis and Reliability Analysis” at the Center for Statistical Consultation and Research (CSCAR) at the University of Michigan, Ann Arbor, MI, May 15 & 16, 2007.

Applied Survival Analysis

May 15 and 16, 2007
Brenda Gillespie and Myra Kim, Instructors

This workshop, held over two days, covers basic concepts of and common analytical approaches for time-to-event data, known variously as survival analysis (in biological and medical sciences), event history analysis (in social sciences), or reliability analysis (in engineering).

The workshop will be held in a computer lab and the methods will be illustrated with hands-on exercises. Exercises and examples will use SPSS, SAS and/or Stata as necessary. This workshop covers:

- Basic concepts associated with the analysis of censored data (survival function, hazard function)
- Methods for estimating the survival function (Kaplan-Meier and life-table analyses)
- Two-sample tests with censored data (log-rank and Wilcoxon tests)
- Regression analysis with censored data (Cox proportional hazards regression, Weibull regression), including time varying covariates, correlated data, and stratified cox models
- Discrete models for censored data (logistic regression, Poisson regression)

Computational approaches using statistical software will be emphasized. Examples will be from both SAS and SPSS.

Instructors:

Brenda Gillespie is the Associate Director of CSCAR and Assistant Professor in the Department of Biostatistics at The University of Michigan. She has extensive experience as a statistical consultant, and specializes in the various methods for analysis of censored data.

Myra Kim is an Associate Research Scientist at CSCAR and an Adjunct Assistant Professor in the Department of Biostatistics. She has taught biostatistics and collaborated with scientific investigators from many fields.

Audience:

Any researcher dealing with time-to-event or other right-censored data.

Prerequisite:

Basic knowledge of introductory statistics (hypothesis testing), and some knowledge of applied multiple regression.

Provisions:

Enrollees will receive lecture notes and a bibliography.

Date:

Tuesday and Wednesday, May 15 and 16, 2007.

Time:

9:00 am to 4:00 pm

Location:

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

Fee:

Registration until May 1, 2007:

\$250 for University of Michigan affiliated faculty, staff and students

\$600 for others

Registration after May 1, 2007:

\$300 for University of Michigan affiliated faculty, staff and students

\$720 for others

Fees can be paid by check or billed to a University of Michigan Account.

Registration:

Call CSCAR at 734-764-7828. Enrollment is limited. Make check payable to CSCAR--University of Michigan, or give the University of Michigan Account to be billed. Send check to CSCAR, The University of Michigan, 3550 Rackham Bldg., 915 E. Washington St., Ann Arbor, MI 48109-1070.