

SCC Seminar on Data Analysis

Dr. Dan Hall

Director, UGA Statistical Consulting Center

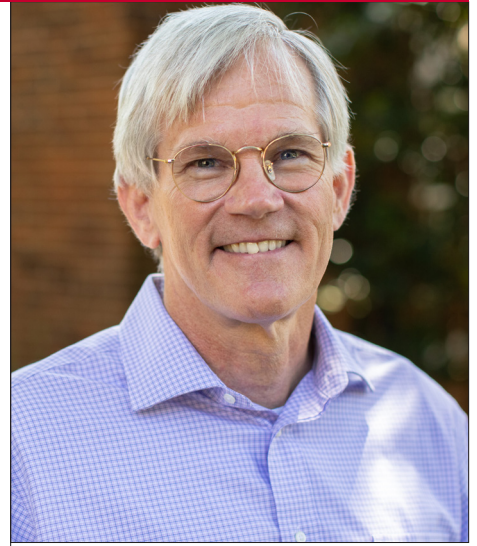
Tuesday, Oct. 27, 2026, 3:00-4:00PM, MLC Room 213

An Introduction to Handling Missing Data in R

What You'll Hear About:

Missing data is a common complication when doing applied statistics and data science. In this talk, I will review the various types of missingness that can arise, and survey the most common ways of accounting properly for missing data when conducting statistical analyses. I will talk about some tools for summarizing missingness, managing it, and analyzing data in its presence. The emphasis will be on basic ideas and practical tools for handling missing data in R. I will discuss the taxonomy of missingness (missing at random, missing completely at random, not missing at random), strategies for analysis when missingness is a problem (complete case analysis, available case analysis, imputation, multiple imputation, and full information maximum likelihood estimation), and I will provide some practical recommendations. Examples with R code will be sprinkled through the presentation. Handling missing data properly can be very challenging, but this talk will give you the tools and basic ideas to get started on your own and to know when to seek help.

About the SCC Seminar Series: This series of non-technical talks, sponsored by the UGA Statistical Consulting Center, aims to present topics of interest to statisticians and users of statistics related to the practical use of statistics for data analysis.



Bio: Dan Hall is Professor of Statistics at the University of Georgia (UGA). He serves as the Director of the UGA Statistical Consulting Center, a unit of the Department of Statistics and a UGA core research unit. Dr. Hall received his undergraduate and graduate degrees at Northwestern University in his hometown of Evanston, Illinois. After two years of post-doctoral work at the University of Iowa, he joined UGA in 1996 and has remained there ever since. Dr. Hall is an applied statistician with interests in longitudinal data analysis, mixture models, zero-inflation, statistical education, and statistical collaboration. He is author/co-author of 85+ peer-reviewed publications on topics in statistical methodology and many other areas of academic inquiry including environmental health, nutrition science, pharmaceutical epidemiology, forestry, psychology, and other fields.



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