



2004-05 Program on Latent Variable Modeling in the Social Sciences

Tutorials and Opening Workshop: September 11-15, 2004

Mid-Program Focused Workshops: TBA

Closing Workshop: May 19-21, 2005

Latent variables are widespread in the social sciences. Whether it is intelligence or socio-economic status, many variables cannot be directly measured. Factor analysis, latent class analysis, structural equation models, error-in-variable models, and item response theory illustrate models that incorporate latent variables. This SAMSI program will take a broad look at latent variables and measurement error. Issues of causality, multilevel models, longitudinal data, and categorical variables in latent variable models are examples of the SAMSI topics for this program.

Program Leaders: Kenneth A. Bollen (Chair), James J. Heckman, Alan F. Karr, and Susan A. Murphy

Opportunities to Participate

- ◆ *SAMSI-University Fellows* help lead the research as well as join academic life at a SAMSI university
- ◆ *Long-term Research Visitors* participate in the research
- ◆ *SAMSI New Researcher Fellows* are fully engaged in the program for one semester to one year
- ◆ *Postdoctoral Fellows*, typically appointed for two years, play major roles in pursuing the research
- ◆ *Workshop Attendees* inform the course of the research and have early access to the results.

Members of underrepresented groups are especially encouraged to apply.

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The Statistical and Applied Mathematical Sciences Institute (SAMSI) is a national institute that is forging a new synthesis of the statistical and applied mathematical sciences with disciplinary science to confront important data- and model-driven scientific challenges.

SAMSI is a partnership of the National Science Foundation with the consortium of Duke University, North Carolina State University, the University of North Carolina at Chapel Hill, and the National Institute of Statistical Sciences.

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