



## Summer Workshop Program and Participant Scholarships

Registration and scholarship applications are invited for participation in the following CSISS-sponsored workshops. The application deadline is 20 May 2000, but early submissions are encouraged and early acceptances and awards may be made. All successful applicants will be notified by 25 May. Application procedures and detailed information on workshop content and format will be found at [www.ncgia.ucsb.edu/CSISS/workshops](http://www.ncgia.ucsb.edu/CSISS/workshops). Information on accommodations will be provided with notice of acceptance and announcement of scholarship awards.

CSISS is funded by the National Science Foundation under its program of support for infrastructure in the social and behavioral sciences. It is located at the University of California, Santa Barbara, and its programs focus on the methods, tools, techniques, software, data access, and other services needed to promote and facilitate a novel and integrating approach to social science.

### Bayesian Perspectives on Spatial Analysis in the Social Sciences

*19-23 June 2000, Seattle WA*

**Topics covered:** Markov Chain Monte Carlo Analysis, Network Analysis and Random Graph Modeling; use of WINBUGS and UCINET software.

**Instructors:** Michael Ward (Political Science, workshop coordinator), Julian Besag (Statistics), Martina Morris (Statistics and Sociology), and guest presenters from a range of social and statistical sciences.

Co-sponsor with CSISS and host institution: The Center for Statistics and the Social Sciences, University of Washington ([www.csss.washington.edu](http://www.csss.washington.edu)).

### Multiagent Spatial Modeling

*24-28 July 2000, Los Angeles CA*

**Topics covered:** Use of Java and C++ for developing simulation programs, representing space, and handling geographic models; creating multiple agents to act in geographic space; enabling agent change through adaptive learning and evolutionary computation, collecting and visualizing statistics based on multiple runs; and evaluation of existing programs and research. No programming experience is needed, however familiarity with Windows environment and World Wide Web is recommended

**Instructor:** Nicholas Gessler –workshop coordinator (Anthropologist, Humanities Computing, and Department of Geography, UCLA). Guest speakers: Steven Banks (Evolving Logic Associates and Rand Corp.), Catherine Dibble (Geography, UCSB), Jonathan Gratch (Information Sciences Institute, USC), and Alex Singer (Integrated Media Systems, USC).

Co-sponsor with CSISS and host institution: Center for Computational Social Science and Social Informatics and the Department of Design and Media Arts, University of California, Los Angeles ([www.ccss.ucla.edu](http://www.ccss.ucla.edu)).

### An Introduction to Spatial Pattern Analysis in a GIS Environment

*14-18 August 2000, Santa Barbara CA*

**Topics covered:** Introduction to GIS, pattern statistics and measures of spatial pattern, point-pattern software, research and developments in spatial pattern analysis, and exploratory spatial data analysis. No prior experience in spatial analysis is required.

**Instructors:** Arthur Getis (Geography, workshop coordinator) and John R. Weeks (International Population Center) at San Diego State University, Michael Goodchild (CSISS, University of California Santa Barbara), and Lauren Scott (Environmental Systems Research Institute)

Host Institution: CSISS, University of California, Santa Barbara ([www.ncgia.ucsb.edu/CSISS](http://www.ncgia.ucsb.edu/CSISS)).

### Interuniversity Consortium on Political and Social Research Summer Program

CSISS is offering scholarships to assist registrants in the following workshops sponsored by ICPSR. Apply to register for these workshops through ICPSR. See [www.icpsr.umich.edu/sumprog/S2000/](http://www.icpsr.umich.edu/sumprog/S2000/) for details and requirements, or contact Hank Heitowit ([hank@icpsr.umich.edu](mailto:hank@icpsr.umich.edu)), Director, ICPSR Summer Program. Apply for scholarships through CSISS (instructions at [www.ncgia.ucsb.edu/CSISS/workshops](http://www.ncgia.ucsb.edu/CSISS/workshops)).

#### Introduction to Spatial Data Analysis

*May 22-26, 2000, Urbana-Champaign IL*

**Topics covered:** Spatial data visualization and exploration, analysis of clusters and point patterns, global and local indicators of spatial autocorrelation, variogram analysis, and introduction to spatial regression analysis, SpaceStat software. Prior familiarity with multivariate statistics and basic concepts of probability theory, and some knowledge of desktop GIS software, expected of participants.

**Instructor:** Luc Anselin, University of Illinois, Urbana-Champaign.

Host Institution: ICPSR and the University of Illinois ([spacestat.com/introsatialdata.htm](http://spacestat.com/introsatialdata.htm)).

#### Spatial Regression Analysis

*August 14-18, 2000, Ann Arbor MI*

**Topics covered:** Spatial econometrics, incorporating spatial effects in regression models, maximum likelihood and other estimation methods for spatial regression models, specification searches in spatial regression analysis, and implementation of spatial regression analysis in standard software packages. Participant background in intermediate regression analysis or intermediate econometrics, and familiarity with introductory spatial data analysis, expected.

**Instructor:** Luc Anselin, University of Illinois, Urbana-Champaign.

Host Institution: ICPSR, University of Michigan ([spacestat.com/spatialregression.htm](http://spacestat.com/spatialregression.htm)).