

Advanced Spatial Analysis

Now accepting applications for **Workshops 2008**

The Population Research Institute (The Pennsylvania State University) and the Center for Spatially Integrated Social Science (University of California, Santa Barbara) are offering workshops in the NICHD-funded training program in Advanced Spatial Analysis. These five-day-long workshops focus on advanced methods for research in the population sciences.

The primary audience for these advanced workshops is early-career population scientists (i.e., graduate students, post-docs, and junior faculty/researchers in demography-related disciplines) based at research institutions and population-related agencies in the United States. These workshops are for population scientists who already possess a working knowledge of geographic information systems (GIS) and spatial statistics, and who use these tools in their research.

Geographically Weighted Regression

State College, PA: The Population Research Institute (www.pop.psu.edu/)

The Pennsylvania State University, June 1–June 6, 2008

Instructors: A. Stewart Fotheringham and Martin Charlton (both from the National University of Ireland), and Chris Brunsdon (University of Leicester) are the developers of the GWR software and authors of the pioneering book *Geographically Weighted Regression* (Wiley 2002) Stephen Matthews (Principal Investigator) for the Advanced Spatial Analysis NICHD training program) is the local workshop coordinator at PSU.

The goal of this workshop is to introduce a new modeling technique for local spatial analysis; geographically weighted regression. This technique allows local, as opposed to global spatial models to be calibrated and interesting variations in relationships to be measured and mapped. The workshop will be a mix of lectures and practical, computer-based sessions.

Spatial Pattern Analysis

Santa Barbara, CA: The Center for Spatially Integrated Social Science (www.csiss.org)

University of California, Santa Barbara July 13–July 18, 2008

Instructors: Arthur Getis and John Weeks (both from San Diego State University) and Jared Aldstadt (University at Buffalo, State University of New York). Michael Goodchild and Donald Janelle are the local workshop coordinators at UCSB.

This workshop will expose population scientists to an array of spatial data analysis techniques, encourage them to think critically and creatively about how to use spatial analysis in their research, and introduce them to the special software packages that are increasingly employed in demographic inquiry. Hands-on exercises and demonstrations will cover issues associated with spatial pattern analysis using various GIS packages for analysis, data visualization, and modeling. Participants will have the opportunity to develop a demonstration project based on their own georeferenced data.

Scholarship Support

There are no fees for participating in the Advanced Spatial Analysis Workshops. Participants are encouraged to seek funding from their own institutions and advisors to cover transportation, lodging, meals, books, and access to a laptop computer. Scholarships (limited to \$500) will be available for all qualifying applicants, with priority given to graduate students and postdoctoral fellows. Federal employees and those in the private sector are not eligible for scholarships.

Application Process

More detailed information about the workshops and the requirements for applicants can be found at <http://www.csiss.org/GISPopSci>. Apply on-line at <http://www.csiss.org/GISPopSci/workshops/2008/apply/>

Application Deadline: 31 March 2008 | Acceptance Notice: 14 April 2008 | Confirm Participation: 21 April 2008

Subject to funding by the National Institute of Child Health and Human Development (NICHD).