



# ADVANCED SPATIAL ANALYSIS WORKSHOPS

**NOW ACCEPTING APPLICATIONS FOR WORKSHOPS 2010**

The Population Research Institute (PRI) at Pennsylvania State University and the Center for Spatially Integrated Social Science at the University of California, Santa Barbara (UCSB) are pleased to announce the offering of two summer workshops in 2010 under the Advanced Spatial Analysis program, which is funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). This year both workshops will take place in **July 2010** on the UCSB campus, with Donald Janelle serving as the local coordinator. Stephen Matthews, Principal Investigator for the program, will be available for consultation at the workshops.

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** University of California, Santa Barbara July 12–July 16, 2010

*Instructors:* **A. Stewart Fotheringham** and **Martin Charlton** (both National University of Ireland Maynooth), and **Chris Brunson** (University of Leicester) are the developers of the GWR software and authors of the pioneering book *Geographically Weighted Regression* (Wiley 2002)

### **Workshop goals:**

- Introduce geographically weighted regression, a technique that allows local (as opposed to global) spatial models to be calibrated and interesting variations in relationships to be measured and mapped

### **Workshop format:**

- The workshop will be a mixture of lectures and practical, computer-based sessions
- Participants will have an opportunity to work with their own research data

***These workshops have a participation cap and are highly competitive***

## **Spatial Pattern Analysis** University of California, Santa Barbara July 19–July 23, 2010

*Instructors:* **Arthur Getis** and **John Weeks** (both San Diego State University) and **Jared Aldstadt** (University at Buffalo, State University of New York) are noted authorities in spatial econometric analysis who have significant experience in working with scholars in the social, demographic, and health sciences

### **Workshop goals:**

- Expose population scientists to an array of spatial data analysis techniques
- Encourage participants to think critically and creatively about how to use spatial analysis in their research
- Introduce the spatial software packages that are increasingly employed in demographic inquiry

### **Workshop format:**

- 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 home institutions and advisors to cover the costs of 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**

Detailed information about the workshops and application requirements can be found at <http://www.csiss.org/GISPopSci>

**Apply online at**

<http://www.csiss.org/GISPopSci/workshops/2010/apply/>

**Application Deadline:** April 18, 2010

**Acceptance Notice:** April 30, 2010

**Confirm Participation:** May 10, 2010