



# GIS and Population Science

## Now accepting applications for Workshops 2005

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 GIS Population Science Training Program. The two-week-long workshops provide intensive training in geographic information science (GIS) specifically tailored toward population science.

The primary audience for these workshops is interdisciplinary pre-doctoral students of demography at NICHD-supported population training centers in the United States, institutional members of the wider Association of Population Centers (APC), graduate students in demography-related disciplines from both APC and non-APC institutions (including agricultural economics, anthropology, economics, geography, public health, rural sociology, and sociology), as well as faculty and researchers employed in population-related agencies.

### **State College, PA: The Population Research Institute** ([www.pop.psu.edu/](http://www.pop.psu.edu/)) *The Pennsylvania State University, May 29–June 11, 2005*

**Instructors:** Stephen Matthews (coordinator), Michael Goodchild, David DiBiase, Mark Gahagen, and James Macgill, plus presentations by local and invited distinguished demographic researchers.

### **Santa Barbara, CA: The Center for Spatially Integrated Social Science** ([www.csiss.org](http://www.csiss.org)) *University of California, Santa Barbara June 19–July 2, 2005*

**Instructors:** Michael Goodchild and Donald Janelle (coordinators), David Carr, Keith Clarke, Sara Fabrikant, Barbara Herr-Harthorn, Stephen Matthews, Stuart Sweeney, Waldo Tobler, John Weeks, plus presentations by local and invited distinguished demographic researchers.

Each workshop will provide an **Introduction to ArcGIS 9.x** from a team of ESRI certified instructors, led by Jim Detwiler. Participants who complete a workshop will receive certificates from the Environmental Systems Research Institute (ESRI, <http://www.esri.com/>) and from the host institution (PRI or CSISS).

The workshops will focus on facilitating GIS and spatial analytical research on urban poverty, neighborhood research, racial/ethnic diversity, maternal and child health and wellbeing, and population-environment relations. Exercises will be based on demographic and other socio-economic and health-related data commonly used by population scientists. In addition to GIS, the workshops will introduce methods in spatial analysis, spatial statistics, mapping, and visualization. Instructors will review strategies for dealing with problems of inference, spatial dependence, spatial heterogeneity, scale, uncertainty, and the ecological fallacy. Participants will have opportunities to work with their own data and build networks with peers who share interests in spatial demographic research. Each workshop will conclude with a two-day conference where participants will present on their workshop accomplishments and hear from distinguished researchers on how a spatial perspective has informed their population science.

### **Scholarship Support**

There are no fees for participation in the GIS Population Science Workshops. Participants are expected to cover their own transportation, lodging, meals, and books but may apply for stipends (maximum of \$1250) to offset these costs. Priority for funding will be for graduate students and postdoctoral fellows. Federal employees and those in the private sector are expected to pay their own way. All participants are expected to bring a laptop computer that meets the minimum requirements specified on the program's website.

### **Application Process**

1. Review detailed information about the workshop program and the requirements for applicants and accepted participants at <http://www.csiss.org/GISPopSci>
2. Review the workshop agenda and the expertise of instructors at the host institutions to select your preferred workshop
3. Apply online at <http://www.csiss.org/GISPopSci/workshops/2005/apply/>

**Application Deadline: 10 April 2005 | Acceptance Notice: 17 April 2005 | Confirm Participation: 25 April 2005**

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