

William G. Guthe  
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## **EDUCATION:**

Exploring ENVI, ITT Visual Information Solutions (now Exelis), June, 2008.  
ArcGIS ArcObjects and GIS Server, Environmental Systems Research Institute (Esri), December, 2004.  
ArcIMS Administration, ArcIMS programming, Esri, January and May, 2003.  
ERDAS Imagine training, 2000.  
Oracle SQL and Database Administration, 1998.  
Arc/Info, ArcSDE, GRID, Avenue programming, other Esri software, Esri, 1987-1998.  
S-Plus statistical software, 1996.  
Fundamentals of Air Pollution, U.S. Environmental Protection Agency, 1990.  
M.A. in Geography, University of California, Davis, 1981.  
B.A. in Anthropology, Haverford College, 1976.

## **SELECTED WORK EXPERIENCE:**

### **Geographic Information Systems (GIS) and Remote Sensing Coordinator, Computational Science and Engineering Support, Office of Information Technology, Princeton University, 2000-current.**

Manage university licenses for ENVI/IDL, ERDAS, Esri, Matlab and related software. Provide training in GIS and remote sensing technologies. Give instruction in graduate-level courses. Support Princeton faculty, staff and students in using GIS, image processing and remote sensing for research and teaching. Incorporate GIS analyses and displays into Web-based interactive tools. Develop innovative applications for various academic disciplines.

### **Instructor, Office of Continuing Professional Education, Rutgers University, 1997-2007.**

As part of the Rutgers Certificate Program in Geomatics, taught the introductory GIS course until 2003. Developed GIS courses on vehicle routing, environmental management and analysis, programming, and publishing the results of analyses.

### **Partner, Integrated Spatial Solutions, 1996-2000.**

Developed and conducted training courses in ArcView and other Esri products. Designed and executed data analyses and spatial studies. Created proposals for potential clients.

### **Research Scientist, Bureau of Geographic Information Systems, New Jersey Department of Environmental Protection (NJDEP), 1991-2000.**

Created software tools to allow Department employees to access GIS data and generate displays. Managed data on the NJDEP network. Incorporated geospatial modeling and analysis into applications for advanced GIS users. Prototyped the transition of GIS services within NJDEP from locally run applications to intranet- and Internet-based models using Internet Mapping Service (IMS) technologies.

### **Environmental Scientist, Air Quality Program, NJDEP, 1988-1991.**

Ran mobile source pollution models to plan air quality improvement strategies. Analyzed benefits of adopting the California mobile source control program. Reviewed effectiveness of New Jersey's motor vehicle inspection-maintenance program.

### **Senior Environmental Specialist, Hazardous Waste Facilities Siting Commission, 1984-1988.**

Managed technical support for siting hazardous waste facilities in New Jersey. Accompanied contractors on-site and reported findings to Commissioners. Compiled environmental information for siting decisions using GIS and other technologies.

## **SELECTED PUBLICATIONS:**

"Putting Information in its Place: GIS as an Instructional Technology," by William G. Guthe and Kirk Alexander, *GIS Educator*, Esri, Redlands, California, pp. 1-6, Fall 2001.

"Geographic Information Systems and Floodplain Litigation," by Bill Guthe and John Tyrawski, map reproduced in *ESRI Map Book, Volume 10*, Esri, Redlands, California, 1995.

"Patterns of Lead Exposure in Newark," by Bill Guthe; map in *Arc/Info Maps 1992*, Esri, Redlands, California, 1993.

"GIS: A New Tool for Mosquito Control," by William G. Guthe; *Wingbeats*, v. 4, n.1, pp.4-6, Spring, 1993.

"Applications of GIS Technology within New Jersey's Hazardous Waste Site Remediation Programs," by William G. Guthe and George H. Klein; *1993 Annual Conference Proceedings*, v. 3, pp. 103-112, Urban and Regional Information Systems Association, Washington, D.C., 1993.

"Reassessment of Lead Exposure in New Jersey using GIS Technology," by William G. Guthe, et al., *Environmental Research*, v. 59, pp. 318-325, 1992.

"Estimating the Water Resource for a High Sierra Watershed," by William G. Guthe and M.L. Shelton, *Water Resources Bulletin*, vol. 23, no.5, pp. 767-775, 1987.

## **HONORS AND AWARDS:**

Achievement Award, Princeton University Office of Information Technology, 2004.

Multimedia award for the NJDEP CD-ROM, "GIS Tools for Decision-making," Esri, 1997. Created multimedia presentations on open space, site analysis, and incorporation of Computer-Assisted Drawings into GIS.

Graduate Research Award, University of California, Davis, 1981.

Phi Beta Kappa, Haverford College, 1975.